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VICTORIA GOVERNMENT GAZETTE.

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[1931

No.	Number of Tenders.	Particulars of Contract.	Country of Manufacture or Production.	Amount.	Name of Contractor.
134	..	Railway Stores Suspense Account, Act 3759, Section 105— Supply and delivery of Stores, as ordered, from 1st October, 1930, to 30th September, 1931.	As per annex ..	Rates as per annex	As per annex

Melbourne, 31st March, 1931.

Schedule of Rates Contracts

FOR THE

SUPPLY OF STORES

TO THE

VICTORIAN RAILWAYS,

Period 1.10.1930 to 30.9.1931.

E. C. EYERS,

By order of The Victorian Railways Commissioners.

SUPPLY AND DELIVERY OF STORES.

As ordered, from 1st October, 1930, to 30th September, 1931.

Items marked * to be supplied (subject to the General Conditions of Contract) to sample or samples exhibited by the Corporation.

Items marked † to be supplied to sample or samples furnished by the Contractor.

Items for which the Country of Manufacture is shown as a State of Australia are to be wholly or partly manufactured in such State.

The Stores referred to in this Schedule (if tendered of Australian manufacture or production) shall, where shown, be wholly manufactured or produced at the factory or works of the Contractor. No sub-letting will be allowed.

Item No.	Description.	Country of Manufacture.	Estimated Requirements,	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

BENZOL.

See Appendix "E" for Specification.

(1.10.1930 to 30.9.1931.)

The rate quoted shall be subject to market fluctuations, inclusive of any Government duty or excise that may be imposed during the currency of the Contract. If any such alterations occur during the contract period the amended rate shall apply to all deliveries made on and after the date of such alteration.

The Contractor shall furnish the Comptroller of Stores with early advice of any alterations in market rates.

Payment will be made on gallonage calculated on net weight, in containers, after delivery from tank wagon and the specific gravity ascertained in Victorian Railways Laboratory from samples drawn from each delivery when delivered into drums, and by calibrated stick when delivered into tanks.

1501	Benzol, Specification N.4, delivered in bulk from tank wagon into either, Company-owned 40-gallon drums (on loan, free of charge), or into Departmental tanks; at Garage, Batman-avenue, Deepdene; or at the Metropolitan Receiving Depot, Spencer-street; or any Depot within the Metropolitan Area	N.S.W.	50,000 gals.	gallon	0 2 3	Shell Co. of Aust. Ltd.
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VARNISHES.

See Appendix "F" for Specifications.

(1.10.1930 to 30.9.1931.)

As regards Items Nos. 1502 to 1503B, 1517, and 1517A, orders should be placed on the lower tenderer in each instance, unless the material proves unsatisfactory or unless it be desired to order the alternative item for trial purposes.

	Varnish, in $\frac{1}{2}$ -gallon or 1-gallon tins, as ordered—					
†1502	Carriage, Hard Drying, Specification D.1, "Sun"	N.S.W.	1,000 gals.	Imp. gallon	0 11 0	Wilkinson, Heywood & Clark (Melb. Branch)
†1502A	Carriage, Hard Drying, Specification D.1, "L.79"	"		"	0 11 3	Taubmans Pty. Ltd.
†1502B	Carriage, Hard Drying, Specification D.1	Vict.		"	0 11 3	Permalac Paint & Varnish Products
†1503	Durable (Wearing Body), Specification D.1, "Sun"	N.S.W.	1,500 "	"	0 13 6	Wilkinson, Heywood & Clark (Melb. Branch)
†1503A	Durable (Wearing Body), Specification D.1, "E.1088"	"		"	0 14 0	Taubmans Pty. Ltd.
†1503B	Durable (Wearing Body), Specification D.1	Vict.		"	0 14 0	Permalac Paint & Varnish Products
†1504	Copal, Specification D.2, "Mirror"	"	75 "	"	0 7 6	S. Smith & Co. Pty. Ltd.
†1505	" Superfine	"	2 "	"	0 8 0	Edinburgh Varnish Works Pty. Ltd.
†1506	Oak, Specification D.3, "Mirror"	"	100 "	"	0 7 0	S. Smith & Co. Pty. Ltd.
†1507	Gold Size, Specification D.4	"	250 "	"	0 9 0	Permalac Paint & Varnish Products
†1508	Japan, Black, Specification D.5	"	20 "	"	0 7 0	Edinburgh Varnish Works Pty. Ltd.
†1509	Liquid Japan Drier (Terebine), Specification D.6	"	1,500 "	"	0 5 7	Edinburgh Varnish Works Pty. Ltd.
†1510	Paper, Specification D.7	"	3 "	"	0 10 0	E. L. Yencken & Co. Pty. Ltd.
†1511	Spirit, White or Brown, as ordered, Specification D.8	"	15 "	"	0 6 9	
†1512	Knotting, Specification D.9, "Mirror"	"	38 "	"	0 8 6	
†1513	French Polish, "Mirror"	"	325 "	"	0 8 6	S. Smith & Co. Pty. Ltd.
†1514	" White, "Mirror"	"	30 "	"	0 10 0	
†1515	Insulating, Quick Air-drying, Black, to Specification	N.S.W.	200 "	"	0 5 6	
†1516	Insulating, Quick Air-drying, Clear, to Specification	"	10 "	"	"	Nil
†1517	Varnish, Insulating, Black, Stoving, to Specification, in 4-gallon tins	Vict.	200 "	"	0 5 6	Charles Atkins and Sons Pty. Ltd.
†1517A	" " " " " "	N.S.W.		"	0 8 9	Taubmans Pty. Ltd.
†1518	Varnish, Bronzine, "Sun"	"		25 "	"	0 9 0	Wilkinson, Heywood & Clark (Melb. Branch)
1519 to 1523	Nil					

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

LIQUID DISINFECTANTS.

(1.10.1930 to 30.9.1931.)

The Disinfectant to be supplied under Item 1524 shall have a Rideal Walker Coefficient of not less than 10; and that supplied under Item 1525 shall have a Rideal Walker Coefficient of not less than 3.

As regards Item No. 1524.—Drums will be charged at the rate of 5s. on delivery and credited by the Contractor on return.

†1524	Disinfectant, Liquid, in casks or drums— High Grade "Duraphenyle" ..	Vict.	450 gals.	Imp. gallon	0 4 6	Duratar Pty. Ltd.
†1525	Low Grade "Safeguard," B grade ..	"	2,500 "	do.	0 1 2	Safeguard Chemical Co. Pty. Ltd.
†1526	Oil, Disinfectant, for use in Urinals, in 4-gallon tins, "Pynex"	"	350 "	do.	0 1 8½	A. B. Gibson & Sons Pty. Ltd.
1527 to 1528	Nil					

CANDLES, MATCHES, SOAP, PARAFFIN WAX, ETC.

(1.10.1930 to 30.9.1931.)

SPECIFICATION FOR SOFT SOAP—Item No. 1537.

All the soft soap supplied under this Contract shall be of the best quality and description, and shall contain not less than 40 per cent. of fatty acids. The soap must not become liquid at a temperature of 90 deg. Fahr., while on being cooled to 32 deg. Fahr. for 24 hours no liquid must separate from it. It shall contain not more than three parts of free caustic alkali per centum.

Any fish oil or marine animal oil used in the manufacture of the soap must be deodorized, and no scenting material such as oil of mirbane shall be present.

The soap will be tested with cold water, and should dissolve readily and have a good lather when stirred.

SPECIFICATION FOR COMMON YELLOW SOAP—Item Nos. 1539 and 1540.

The soap shall be of the best quality and description and shall be the product derived from the action of a solution of alkali on fats, oils, or resins. It shall contain not less than fifty-nine per centum (59%) of fatty acids, of which not more than one-third may be resin acids. It shall contain not more than three parts per centum of carbonate of soda, and not more than one-tenth of one part per centum of free caustic alkali. It shall not contain any other substance save water, perfume, and harmless colouring matter. It shall be of good pale yellow colour and free from offensive odour.

The amount of fatty and resinous acids shall be ascertained by testing pieces cut from the centre of inside of bar.

SPECIFICATION FOR PARAFFIN WAX—Item No. 1543.

The Paraffin Wax shall be a pure petroleum or shale product of the very best quality, free from colour, mineral acid or alkali, and mineral matter. The Paraffin Wax shall have a melting point of not less than 135 degrees Fahrenheit.

The Paraffin Wax shall be packed in cotton wrappers inside single gunny bags and delivered at the Newport Workshops. Each package will contain (approx.) 140 lb. net of wax.

Orders for Paraffin Wax will be placed in minimum lots of 1½ tons, and sufficient time allowed for importation. The rates tendered do not include wharfage, but in order that the Corporation will obtain exemption of wharfage, each shipment should be consigned to the Victorian Railways Commissioners, and the Bill of Lading made out in their favor. Wharfage will be arranged by the Corporation, and the Bill of Lading returned to the Contractor to complete delivery. Storekeeper, Newport, to arrange accordingly.

Duty is included at 10 per cent. ad valorem on the wax and 30 per cent. ad valorem on the bags.

Statutory declaration to be furnished by Shipping Clerk to Contractor for Customs purposes.

As regards Items No. 1537 and 1537A with Colgate-Palmolive-Peet Co. Ltd., the rates quoted include wharfage. Officers ordering material, if the quantity warrants such action being taken, should endeavour to arrange with the Contractor to have the material consigned and the Bill of Lading made out in favour of the Comptroller of Stores of the Victorian Railways, so that wharfage may be arranged by the Shipping Clerk, and the amount saved deducted from the Contractor's invoice.

As regards Item No. 1537—two tenders have been accepted—the item known as 1537A is a cheaper grade, and although the laboratory results show the material to be suitable, sufficient for trial order should be ordered to determine its suitability before ordering large quantities.

Each delivery of empties should be properly reviewed, in order that due credit will be obtained, and steps should be taken to cancel any debits raised for jars found to be broken.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
DRYSALTERIES, CHEMICALS, ETC.— <i>continued.</i>						
Each Jar of Battery Acid contains from 3 to 3½ gallons, and it is preferable that either weight or gallons be ordered rather than jars, which vary somewhat in size.						
It should be noted that the Commonwealth Fertilizers and Chemicals Ltd. refused to sign a contract, and the arrangement may be terminated by the Corporation at any time should it so desire.						
The containers for the items shown below shall be charged for by the Contractors on delivery, but credited to the Department on return in good order and condition at the Metropolitan Receiving Depot:—						
Bottles at 2s. each.—Items Nos. 1561, 1565, 1570, 1574, 1576, 1593, and 1594.						
Bottles at 2s. 6d. each.—Item No. 1566.						
Jars at 7s. each and crates at 7s. each.—Items Nos. 1567 to 1569, 1571 to 1573, 1577 to 1579, and 1580 to 1587.						
Jars under Item No. 1606, 7s. each.						
1561	Acetone, chemically pure, in 1-lb. bottles ..	Vict.	3 lb.	lb.	0 3 0	H. B. Selby & Co.
1562	Acid—					
1562	Acetic, chemically pure, glacial ..	..	10 "	do.	..	Nil
1563	Nil.					
1564	Gallic, in 14-lb. tins ..	U.K.	160 "	do.	0 3 3	Norman G. Clark
1565	Hydrochloric, chemically pure, in Winchester quarts	Vict.	225 "	do.	0 1 5	Henry H. York & Co. Pty. Ltd.
	Muriatic, Hydrochloric, or Spirits of Salts, as ordered—					
1566	In Winchester quarts ..	"	10 cwt.	cwt.	1 6 0	W. & G. Dean Pty. Ltd.
1567	In lots of 6 jars or less ..	"	1 "	do.	1 4 6	Henry H. York & Co. Pty. Ltd.
1568	In lots of 7 to 18 jars ..	"	4 "	do.	1 4 6	
1569	In lots over 18 jars ..	"	25 "	do.	1 2 6	
	Nitric—					
1570	In Winchester quarts ..	"	250 lb.	lb.	0 0 10	H. B. Selby & Co.
1571	In lots of 6 jars or less ..	"	200 "	do.	0 0 8	Henry H. York & Co. Pty. Ltd.
1572	In lots of 7 to 18 jars ..	"	150 "	do.	0 0 7½	
1573	In lots over 18 jars ..	"	100 "	do.	0 0 7½	
1574	Chemically pure ..	"	100 "	do.	0 1 6	Felton, Grimwade & Co. Pty. Ltd.
1575	Oxalic, in 1 cwt. kegs ..	Germany	3,000 "	do.	0 0 5½	Hardie Trading Pty. Ltd.
	Sulphuric—					
1576	In Winchester quarts ..	Vict.	200 "	do.	0 0 4	Felton, Grimwade & Co. Pty. Ltd.
1577	In lots of 6 jars or less ..	"	1,000 "	do.	0 0 1½	Henry H. York & Co. Pty. Ltd.
1578	In lots of 7 to 18 jars ..	"		do.	0 0 1½	
1579	In lots over 18 jars ..	"		ton	9 10 0	
	Sulphuric, for Storage Batteries, delivered ex Contractors' Works to Shelter Shed, North Melbourne, in 3-gallon jars.—					
	S.G. 1·100 to 1·215—					
1580	In lots 6 to 18 jars ..	"	16 tons	lb.*	0 0 2	Commonwealth Fertilizers & Chemicals Ltd.
1581	In lots 19 to 35 jars ..	"		do.*	0 0 1½	
1582	In lots 36 to 51 jars ..	"		ton*	15 0 0	
1583	In lots 52 jars and over ..	"		do.*	12 10 0	
	S.G. 1·216 to 1·300—					
1584	In lots 6 to 18 jars ..	"	120 lb.	lb.*	0 0 2½	Henry H. York & Co. Pty. Ltd.
1585	In lot 19 to 35 jars ..	"		do.*	0 0 2	
1586	In lots 36 to 51 jars ..	"		ton*	16 0 0	
1587	In lots 52 jars and over ..	"		do.*	13 0 0	
1588	Sulphuric, chemically pure, in ½-gallon stoppered bottles each containing 9 lb. (bottles not returnable) ..	"		lb.*	0 1 5	
1589	Tartaric ..		6 "	do.	..	Nil
1590	Alcohol, 90 per cent. ..	Vict.	1 gal.	gallon	2 10 0	Felton, Grimwade & Co. Pty. Ltd.
1591	Alum, Lump, in 2½ cwt. casks ..	U.K.	420 lb.	lb.	0 0 1½	Hardie Trading Pty. Ltd.
1592	" Powdered, in 2½ cwt. casks ..	"	1,960 "	do.	0 0 1½	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
DRYSALTERIES, CHEMICALS, ETC.—continued.						
1593	Ammonia, Liquid, '880 sp.—					
1594	In Winchester quarts	Vict.	160 lb.	lb.	0 0 7	R. J. Fletcher
	Chemically pure, in Winchester quarts ..	"	13 qts.	Win. quart	0 4 3	
1595	Ammon. Hydro. Sulph.	U.K.	1 lb.	lb.	0 2 2	Felton, Grimwade & Co. Pty. Ltd.
1596	Borax, Lump	"	9 cwt.	cwt.	1 0 0	
1597	" Powdered	"	1,800 lb.	lb.	0 0 2½	
1598	" " Glass	"	30 "	do.	0 0 9	
1599	Calcium Chloride, in about 5-cwt. drums ..	"	5 tons	ton	..	Nil
1600	" Carbide, Lump, in about 5-cwt. drums, 50/80	"	50 "	do.	..	
1601	" " Granulated, in drums, 4/7	"	1 ton	do.	..	
1602	" " " in drums, 7/15	"	5 tons	do.	..	
1603	Candles, Sulphur,	Vict.	10 doz.	dozen	0 3 8	Felton, Grimwade & Co. Pty. Ltd.
1604	Camphor	Japan	3 lb.	lb.	0 3 6	
1605	Carbon, Bi-Sulph., in 5-gallon tins..	Vict.	550 gals.	gallon	0 7 3	Henry H. York & Co. Pty. Ltd.
				of 12 lb.		
1606	Formalin, Liquid, in 3-gallon jars ..	"	750 lb.	lb.	0 0 8½	Felton, Grimwade & Co. Pty. Ltd.
1607	Gum, Arabic	Sudan	15 "	do.	0 1 0	
1608	Lime, Chloride of, in 7-lb. or 14-lb. jars, as ordered	U.K.	7 "	do.	0 1 1	
1609 to 1610	Nil					Felton, Grimwade & Co. Pty. Ltd.
†1611	Muriate of Ammonia (Sal Ammoniac) ..	"	5 cwt.	cwt.	2 16 0	C. Atkins & Sons Pty. Ltd.
†1612	Muriate of Ammonia (Volooids), ¾" diameter	Vict.	15 "	do.	4 4 0	
1613	Powder, Carbolic, 10 per cent. ..	"	2 "	do.	0 15 0	W. & G. Dean Pty. Ltd.
1614	" Talcum	"	60 lb.	lb.	0 0 2	
1615	Potash, American, Lump	"	28 "	do.	..	Nil
1616	" Prussiate of	U.K.	150 "	do.	0 0 9½	Felton, Grimwade & Co. Pty. Ltd.
1617	Potassa Sulphurata, in air-tight receptacles, containing not more than 3 lb.	"	2 "	do.	0 1 0	H. B. Selby & Co.
1618	Quicksilver	Spain	13 lb.	do.	0 7 6	Felton, Grimwade & Co. Pty. Ltd.
1619	Salt, Common White	Vict.	8 cwt.	cwt.	0 6 0	
1620	" " " fine, for Case-hardening	"	25 "	do.	0 8 0	H. B. Selby & Co.
1621	Shellac, Orange	India	50 lb.	lb.	0 1 9	W. & G. Dean Pty. Ltd.
1621A	" White	Vict.	2 "	do.	0 3 0	Hardie Trading Pty. Ltd.
1621B	" Brown	India	250 "	do.	0 1 9	
1622	" Button, for French Polishing ..	"	168 "	do.	0 1 10	W. & G. Dean Pty. Ltd.
1623	Silver, Nitrate of, Crystal	Vict.	36 lb.	oz.	0 1 7	Kodak (Aust.) Pty. Ltd.
†1624	Soda, Caustic, Lump, 75/76 per cent., in drums	"	21 tons	ton	..	Nil.
†1625	" " Liquid, 32 per cent. Na ₂ O, in drums of 140 lb., or 7/9 cwt.	"	10 "	do.	..	
†1626	" " Powdered, 1-lb. tins, 98/99 % NaOH	"	200 tins	tin	..	
†1626A	Soda, Caustic, Powdered, not less than 96 %, in 187 lb. drums, delivered at Newport Power House ..	"	50 drums	drum	..	
†1627	Soda, Caustic, Pure	"	3 lb.	lb.	..	Felton, Grimwade & Co. Pty. Ltd.
1628	Sodium, Bi-Carbonate, chemically pure ..	U.K.	1,000 "	do.	0 0 1½	
1629	Sulphur, Crude	Vict.	60 "	do.	0 0 1½	H. B. Selby & Co.
1630	" Flowers of	Sicily	50 "	do.	0 0 2	Hardie Trading Pty. Ltd.
1631	Tubes, Glass, charged with 90 per cent. Sulphuric Acid, with blue bead, for Conical Fire Extinguishers, to Litho. No. 148/25 amended 28/1/28 ..	Vict.	450	each	0 1 3	
1632	Tubes, Glass, charged with 90 per cent. Sulphuric Acid, with red bead, for Cylindrical Fire Extinguishers, to Litho. No. 148/25 amended 28/1/28 ..	"	200	do.	0 1 3	Felton, Grimwade & Co. Pty. Ltd.
1633	Turpentine, Venice	"	25 lb.	lb.	0 1 3	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
DRYSALTERIES, CHEMICALS, ETC.— <i>continued.</i>						
1634	Beakers, Pyrex Squat, 600 ccs.	U.K.	6 doz.	dozen	0 18 0	H. B. Selby & Co.
1635	Crucibles, Berlin, Porcelain, without covers— No. 00	"	1 "	do.	0 5 0	
1636	No. 1	"	2 "	do.	0 8 6	
1637	Dishes, Evaporating, fine porcelain, 3" diameter	"	4 "	do.	0 10 0	
1638	Flasks, Pyrex, round bottoms, 400 ccs. capacity	"	1 "	do.	0 1 6	Felton, Grimwade & Co. Pty. Ltd.
1639 to 1642	} Nil					

COPPER TUBING, COPPER PHOSPHOR, COPPER ROD, SHEET, AND STRIP.

(1.10.30 to 30.9.31.)

SPECIFICATION FOR COPPER TUBING.—*Items Nos. 1643–1668.*

Particulars.—The Copper Tubing as set opposite items 1643 to 1668 shall be in accordance with Australian Standard Specification No. E-12-1925T. (except where shown otherwise in this specification).

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at the Rolling Stock Workshops, Newport (Hydraulic test excepted, which shall be conducted by and at the cost of the manufacturer at his works). Each Tube shall be subjected to an hydraulic internal test pressure of not less than 500 lb. per square inch, and the Contractor shall supply (with each delivery of the tubes) documentary evidence of such hydraulic test having taken place on each tube.

Rejection.—Should any Copper Tube or test piece taken from any Tube in a delivery fail to comply in any particular with this specification, the whole of the lot represented by the tube or test piece shall be liable to rejection.

Defects Showing During Fabrication.—Should any portion of a Copper Tube show injurious defects in course of fabrication by the Corporation the Contractor shall be notified and provided the copper Tube has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective Copper Tube.

Packing.—The Copper Tubes shall be delivered packed in cases, crates or other suitable means to prevent them from being damaged in transit.

SPECIFICATION FOR PHOSPHOR COPPER.—*Item No. 1669.*

Particulars.—The Phosphor Copper shall be suitable for use for the production of Phosphor Bronze. It shall be supplied in the form of notched slabs weighing from 15 lb. to 20 lb. each. It shall be brittle and show on fracture a silvery white colour.

Freedom from Defects.—The Phosphor Copper shall be clean, uniform in quality, and free from all injurious defects.

Chemical Analysis.—The Phosphor Copper shall show on analysis—

Phosphorous	Minimum 15·00 per cent.
Phosphorous and copper combined	Minimum 99·85 per cent.
Impurities	Maximum 0·15 per cent.

Branding.—The manufacturer's name or trade mark and the cast number shall be cast or stamped on each slab.

Inspections and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises. One slab of each cast in each delivery will be selected for testing and shall be taken as representing the lot from which it was selected. Should any slab fail to comply in any particular with this specification the whole of the lot which it represents shall be liable to rejection.

SPECIFICATION FOR COPPER ROD (ELECTROLYTIC). *Items 1670–1672, AND COPPER SHEET.—Items 1680 and 1681.*

Particulars.—The COPPER ROD shall be clean and smooth, free from piping, surface and all other defects.

The COPPER SHEET shall be clean and smooth, uniform in thickness and free from all surface and injurious defects.

Samples.—The tenderer shall submit with his tender samples of the Copper Rod and Copper Sheet (in regard to quality only) he tenders to supply, such samples shall be tested by the Corporation and all deliveries of Copper Rod or Sheet under this contract shall show no appreciable variation to such sample.

Limit of Tolerance.—No Copper Rod shall be more than 0·005 in. under nor more than 0·010 in. over the ordered diameter.

No Copper Sheet shall be more than $\frac{1}{2}$ A Birmingham Sheet Gauge over or under the ordered thickness.

COPPER TUBING, ETC.—SPECIFICATION FOR COPPER ROD (ELECTROLYTIC)—*continued.*

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises.

Defects Showing During Fabrication.—Should any portion of a Copper Rod or Sheet show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified and provided the Copper Rod or Sheet has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective Copper Rod or Sheet.

SPECIFICATION FOR COPPER ROD.—*Items Nos. 1673-1679.*

Particulars.—The Copper Rod shall be in accordance with Australian Standard Specification, No. E. 9-1925 T. (except where shown otherwise in this Specification).

Chemical Analysis.—The Copper Rods shall contain not less than 0·3 per cent. nor more than 0·50 per cent. of arsenic and not more than 0·03 per cent. of oxygen and the balance shall be copper. The Contractor shall supply an analysis with each delivery of the Copper Rod. The Corporation shall have the right to make a check analysis if it so desires, and the result shall conform to that shown above.

Limits of Tolerance.—No Copper Rod shall be more than 0·005 in. under nor more than 0·010 in. over the specified diameter and not more than 0·010 in. out of round.

Inspection and Tests.—All inspection and tests will be conducted by and at the cost of the Corporation at its premises.

Rejection.—Should a Copper Rod or test piece taken from any Rod fail to comply in any particular with this specification, the whole of the lot represented by the Rod or test piece shall be liable to rejection.

Defects Showing During Fabrication.—Should any portion of a Copper Rod show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified and provided the Copper Rod has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Copper Rod.

SPECIFICATION FOR HARD DRAWN COPPER STRIP.—*Item Nos. 1682 and 1683.*

Particulars.—The copper strip shall be commercially pure hard drawn, and shall be clean and smooth from die, without roughness, seams or scales.

Tests.—The copper strip shall have a Brinell Hardness of not less than 75.

Testing.—The Corporation may carry out any tests to determine whether the service complies with this Specification. The successful tenderer will be notified at his Melbourne address of the intention to carry out such tests at least 24 hours previously, but should he or his representative fail to be present, the tests may be carried out in his or his representative's absence and at his risk.

Delivery.—All materials specified in this schedule shall be delivered to the Metropolitan Receiving Depot, and the weights as ascertained at the time of delivery, at that depot shall be accepted.

* As regards Items Nos. 1643 to 1668—the rates are based on the price of £54 10s. per ton for Electrolytic Copper Wire Bars, and are to be varied up or down by 1/10th of a penny per lb. of tubes for each complete 17s. 6d., or part thereof by which the price of Wire Bars published in the *Argus* on the date of receipt of an order is greater than £55 7s. 5d. per ton, or less than £54 10s. per ton respectively. If on any day no price of Wire Bars is published the price last published shall apply.

In the case of a dispute concerning the published price of Wire Bars, the figures advised by the Australian Mines and Metals Association as last received by them from the London Metal Exchange prior to the day of the receipt of the order shall be mutually accepted.

As regards Items Nos. 1643 to 1668—If against any item, material is ordered in a lesser quantity of 2 cwt., 2d. per pound extra will be charged.

If Tubes are required to be annealed an extra of 0.5d per pound will be charged.

For supply in "dead" lengths up to and including 18 feet an extra of 1d. per pound will be charged, and for lengths in excess of 18 feet to 20 feet, 2d. per pound extra will be charged.

Delivery.—Six to eight weeks shall be allowed for delivery.

The material shall be invoiced to the nearest 0.25 lb. up or down.

* As regards Items Nos. 1670 to 1679, the rates are based on Electrolytic Copper Wire Bars at £55 10s. per ton, and vary according to the published price of E. C. Wire Bars (as per *Argus* newspaper on the date of receipt of order by the contractor), but there shall be no reduction less than £41 per ton when E. C. Wire Bars are quoted at less than £41 per ton.

* As regards Items Nos. 1680 and 1681, the rates are based on Electrolytic Copper Wire Bars at £54 10s., published in the *Argus* newspaper, and are to be varied up or down by 1/10th of a penny per pound of sheets for each complete 17s. 6d., or part thereof by which the price of Wire Bars published in the *Argus* on the date of receipt of an order is greater than £54 10s. per ton or less than £54 10s. per ton respectively. If on any day no price of wire bars is published the price last published shall apply.

* As regards Item No. 1682, the rate is based on the price of Electrolytic Copper Wire Bars at £52 per ton, and shall be adjusted by 1d. per lb. for every £4 rise or fall in the published market price of Electrolytic Copper Wire Bars in the *Argus* on the date of receipt of an order. If on the date of receipt of any order the rate is not published, the most recent publication shall apply.

* As regards Item No. 1683, the rate is based on the price of £51 10s. per ton for Electrolytic Copper Wire Bars published in the *Argus*, Melbourne, on 3rd September, and is to be varied up or down by one-tenth of a penny per lb. of copper for each complete 17s. 6d., or part thereof, by which the price of wire bars published in the *Argus* on the date of receipt of an order is greater than £51 17s. 5d. per ton or less than £51 per ton respectively. If no price of wire bars is published on any day, the price last published earlier shall apply. In the event of a dispute concerning the published price of wire bars the figures advised by the Australian Mines and Metals Association as last received by them from the London Metal Exchange prior to the day of the receipt of the order shall be mutually accepted.

As regards Item No. 1683, if lots less than 300 lb. be ordered, the rate shall be increased as follows:—

Below 300 to 200 lb.	.. .. .	0·5d. per lb.
" 200 to 100 lb.	.. .. .	1d. per lb.

Three weeks shall be allowed for delivery on each order issued.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
COPPER TUBING, ETC.—continued.						
	Copper Tubing, Solid Drawn, in 14' to 18' lengths					
1643	20 S.W. gauge, $\frac{3}{16}$ " outside diameter	N.S.W.	1 cwt.	lb.	*0 2 2.7	Knox Schlapp & Co.
1644	18 " $\frac{3}{16}$ " " " "	"	1 "	"	*0 1 7.6	
1645	16 " $\frac{3}{16}$ " " " "	"	1 "	"	*0 1 9.2	
1646	16 " $\frac{3}{16}$ " " " "	"	1 "	"	*0 1 9.2	
1647	16 " $\frac{3}{16}$ " " " "	"	8 "	"	*0 1 7.3	
1648	16 " $\frac{3}{16}$ " " " "	"	2 "	"	*0 1 7	
1649	14 " $\frac{3}{16}$ " " " "	"	14 "	"	*0 1 6.3	
1650	14 " $\frac{3}{16}$ " " " "	"	2 "	"	*0 1 5.7	
1651	14 " $\frac{3}{16}$ " " " "	"	16 "	"	*0 1 5.7	
1652	14 " $\frac{3}{16}$ " " " "	"	1 "	"	*0 1 4.4	
1653	12 " $\frac{3}{16}$ " " " "	"	23 "	"	*0 1 4.7	
1654	12 " $\frac{3}{16}$ " " " "	"	36 "	"	*0 1 4	
1655	12 " $\frac{3}{16}$ " " " "	"	1 "	"	*0 1 3.7	
1656	10 " $\frac{3}{16}$ " " " "	"	18 "	"	*0 1 3.7	
1657	10 " $\frac{3}{16}$ " " " "	"	30 "	"	*0 1 3.7	
1658	10 " $\frac{3}{16}$ " " " "	"	9 "	"	*0 1 3.7	
1659	10 " $\frac{3}{16}$ " " " "	"	16 "	"	*0 1 3.7	
1660	10 " $\frac{3}{16}$ " " " "	"	3 "	"	*0 1 3.7	
1661	8 " $\frac{3}{16}$ " " " "	"	4 "	"	*0 1 5	
1662	$\frac{3}{16}$ " $\frac{3}{16}$ " " " "	"	3 "	"	*0 1 4.4	
1663	$\frac{3}{16}$ " $\frac{3}{16}$ " " " "	"	8 "	"	*0 1 5	
1664	$\frac{3}{16}$ " $\frac{3}{16}$ " " " "	"	8 "	"	*0 1 5	
1664A	$\frac{3}{16}$ " $\frac{3}{16}$ " " " "	"	15 "	"	*0 1 4.4	
1665	$\frac{3}{16}$ " $\frac{3}{16}$ " " " "	"	5 "	"	*0 1 4.4	
1666	$\frac{3}{16}$ " $\frac{3}{16}$ " " " "	"	5 "	"	*0 1 5	
1667	$\frac{3}{16}$ " $\frac{3}{16}$ " " " "	"	7 "	"	*0 1 5	
1668	$\frac{3}{16}$ " $\frac{3}{16}$ " " " "	"	35 "	"	*0 1 4.4	
1669	Copper Phosphor, 15 per cent.	"	15 "	"	0 1 6	Ingot Metals Ltd.
†1670	Copper Rod, Electrolytic— $\frac{1}{2}$ " diameter	"	50 lb.	ton	*112 10 0	Austral Bronze Co. by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
†1671	" $\frac{3}{8}$ " " "	"	50 "	"	*112 10 0	
†1672	" $\frac{1}{2}$ " " "	"	50 "	"	*112 10 0	
1673	Copper Rod for Loco. Fire Boxes— $\frac{1}{2}$ " diameter	"	$\frac{1}{2}$ ton	"	*112 10 0	
1674	1" " "	"	13 tons	"	*112 10 0	
1675	1 $\frac{1}{8}$ " " "	"	3 "	"	*112 10 0	
1676	1 $\frac{1}{4}$ " " "	"	2 "	"	*112 10 0	
1677	1 $\frac{3}{8}$ " " "	"	2 "	"	*112 10 0	
1678	1 $\frac{1}{2}$ " " "	"	2 "	"	*112 10 0	
1679	1 $\frac{3}{4}$ " " "	"	5 cwt.	"	*112 10 0	
†1680	Copper Sheet, best hard rolled, in the following trade sizes :— 12 to 26 Birmingham sheet gauges—8' x 4', 8' x 3', 6' x 4', 6' x 3', 6' x 2 $\frac{1}{2}$ ', 6' x 2', and 4' x 2'; 27 to 30 Birmingham Sheet gauges—8' x 3', 6' x 3', 6' x 2 $\frac{1}{2}$ ', 6' x 2', and 4' x 2'; 31 to 34 Birmingham Sheet gauges in strip not over 15" in width	"	4 tons	lb.	*0 1 5 $\frac{3}{4}$	Geo. White & Co.
†1681	Copper Sheet, best soft rolled, in the following trade sizes :— 12 to 26 Birmingham Sheet gauges—8' x 4', 8' x 3', 6' x 4', 6' x 3', 6' x 2 $\frac{1}{2}$ ', 6' x 2', and 4' x 2'; 27 to 30 Birmingham Sheet gauges—8' x 3', 6' x 3', 6' x 2 $\frac{1}{2}$ ', 6' x 2', and 4' x 2'; 31 to 34 Birmingham Sheet gauges in strip not over 15" in width	"		do.	*0 1 4 $\frac{3}{4}$	
1682	Copper Strip, hard rolled, 10 s.w.g., 2 $\frac{1}{4}$ " wide, in coils, random lengths of not less than 6 feet (130 lb. to coil). (To specification)	Vict.	360 feet = 405 lb.	do.	*0 1 2	Ammunition Factory Department of Defence
1683	Copper Strip, hard drawn, No. 10 S.W.G., 1 $\frac{1}{2}$ inches wide, to be supplied in standard coils of 130 lb. (To specification)	N.S.W.	3,600 feet = 2,685 lb.	do.	*0 1 1	British Insulated Cables Ltd.

METALS—ALUMINIUM, ANTIMONY, BRASS (ROD, SHEET, AND TUBING), LEAD, AND ZINC
(1.10.1930 to 30.9.1931.)

SPECIFICATION FOR ALUMINIUM INGOTS—(Item No. 1687), ANTIMONY INGOTS
(Item No. 1688).

Particulars.—(a) Aluminium. The Aluminium Ingots shall contain not less than 98 per cent. of virgin aluminium.

(b) Antimony. The Regulus of Antimony Ingots shall contain not less than 99·5 per cent. of antimony.

The materials shall be free from all injurious defects and shall be of uniform quality.

Branding.—The manufacturer's name or trade mark and a brand indicating that the materials are of the quality specified shall be cast or stamped on each ingot of Aluminium and Antimony.

Samples.—The tenderer shall submit with his tender a sample ingot of the Aluminium and Antimony he tenders to supply, such samples shall be tested by the Corporation and all deliveries of Aluminium and Antimony under this contract shall show no appreciable variation to such sample.

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the corporation at its premises. At least one ingot from each delivery of Aluminium and Antimony will be tested and held as representing the lot from which it was taken.

Rejection.—In the event of the material failing to comply in any particular with this Specification it shall be liable to rejection.

SPECIFICATION FOR BRASS ROD (HARD ROLLED)—Items Nos. 1689–1740.

Particulars.—The Brass Rods shall be in accordance with Specification No. 218–1925 of the British Engineering Standards Association (except where shown otherwise in this Specification).

Chemical Analysis.—The Brass Rods shall show on analysis—

Copper	..	..	..	Min. 58 per cent., Max. 63 per cent.
Lead	..	..	..	Min. 1·5 per cent., Max. 2 per cent.
Zinc	..	..	..	The remainder
Total impurities	..	..	..	Not more than 0·75 per cent.

Limits of Tolerance.—The Brass Rod shall be true to the ordered dimensions within the limits of tolerance shown opposite the various items in the Schedule. Where no tolerance is shown opposite any item in the Schedule, the Brass Rod shall be not more than 0·002" over or 0·002" under the specified thickness or diameter.

Inspection and Tests.—All inspection and tests will be conducted by and at the cost of the Corporation, at its premises.

Rejection.—Should the Brass Rod fail to comply in any particular with this Specification it shall be liable to rejection.

Defects showing during Fabrication.—Should any portion of a Brass Rod show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified and provided the Brass Rod has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective Brass Rod.

SPECIFICATION FOR BRASS SHEET—Items 1741 to 1748.

Particulars.—The Brass Sheet shall be in accordance with Specification No. 266 (for Best Brass Sheet) of the British Engineering Standards Association (except where shown otherwise in this Specification).

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises.

Limits of Tolerance.—No Brass Sheet shall be more than $\frac{1}{2}$ a B gauge over or under the ordered thickness.

Rejection.—Should the Brass Sheet fail to comply in any particular with this Specification it shall be liable to rejection.

Defects showing during Fabrication.—Should any portion of a Brass Sheet show injurious defects in course of fabrication by the Corporation the Contractor shall be notified and provided the Brass Sheet has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective Brass Sheet.

SPECIFICATION FOR BRASS TUBING—Items Nos. 1749–1770.

Chemical Analysis.—The tubes shall consist of an alloy of copper and zinc and shall contain not less than 60 per cent. of metallic copper and not more than a total of 0·75 per cent. of materials other than copper and zinc.

Freedom from Defects.—The tubes shall be clean, smooth and free from surface defects or longitudinal grooving both internally and externally, and the ends shall be clean and square.

Limits of Tolerance.—The tubes shall be of the dimensions specified in the order subject to the working margins given below. They shall be straight and cylindrical, of uniform thickness, concentric, and of uniform external diameter throughout.

METALS.—SPECIFICATION FOR BRASS TUBING, ETC.—continued.

The working margins shall be as follow :—

On Length—

Tubes 10' in length and under, plus or minus $\frac{1}{16}$ ".
Tubes over 10' in length, plus or minus $\frac{1}{8}$ ".

On External Diameter—

Tubes 2" diameter and under, plus or minus .008".
Tubes above 2" and under 4", plus or minus .016".
Tubes 4" diameter and over, plus or minus .031".

On Thickness—

Plus or minus half a standard wire gauge.

The thickness of each tube shall at all points be as close as possible to that ordered. Local variations from this thickness shall be limited in number and extent, and in no such case shall the thickness be more than .008" below that ordered.

Flattening and Doubling Over Test.—All test material shall be annealed before testing and shall comply with the following mechanical test without further annealing.

The test piece shall stand the following test when cold without showing either crack or flaw. The test piece shall be flattened out until the interior surfaces of the tube meet and then be doubled over on itself, i.e., bent through an angle of 180 degrees, the bend being at right angles to the direction of the length of the tube.

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises.

Rejection.—Should the material fail to comply in any particular with the Specification it will be liable to rejection.

Defects showing during Fabrication.—Should any portion of Brass Tube show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified and provided the Brass Tube has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective Brass Tube.

**SPECIFICATION FOR PIG LEAD—Items Nos. 1771 and 1771A, AND LEAD SHEET—
Item No. 1772.**

Particulars.—(a) Pig Lead (remelted), Item 1771. The Pig Lead as set opposite Item No. 1771 shall be manufactured from reworked lead and shall be free from injurious defects and shall be of uniform quality.

(b) Pig Lead (produced from raw material), Item 1771A. The Pig Lead as set opposite Item 1771A, shall be manufactured from ore or similar raw materials, by processes of reduction and refining, and shall not be produced from reworked material. It shall be free from injurious defects and shall be of uniform quality.

(c) Lead Sheet, Item 1772. The Lead Sheet shall be manufactured from pig produced from raw materials, it shall be of even thickness throughout, smooth and free from all injurious defects.

Samples.—The tenderer shall submit with his tender a sample of the pig lead (remelted), pig lead (produced from raw material), and the sheet lead he tenders to supply. Such samples shall be tested by the Corporation, and all deliveries of lead under this Contract shall show no appreciable variation to such sample.

Branding.—The manufacturers' name or trade mark and a brand indicating that the material is of the quality specified shall be cast or stamped on each pig and marked on each sheet.

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises. One pig and one sheet shall be taken from each ton in each delivery of the lead, and shall be tested and held as representing the lot from which it was taken.

Rejection.—In the event of the material failing to comply in any particular with this Specification, it shall be liable to rejection.

**SPECIFICATION FOR ELECTROLYTIC ZINC INGOTS—Item No. 1773, AND ZINC SHEET
—Items Nos. 1774 and 1775.**

Particulars.—(a) Electrolytic Zinc Ingots shall contain not less than 99.9 per cent. of Zinc. They shall be free from all injurious defects and of a uniform quality.

(b) Zinc Sheets. The Zinc Sheets shall be of the best quality and of even thickness, smooth and free from all injurious defects.

Samples.—The tenderer shall submit with his tender a sample of the Zinc Ingots and Sheets he tenders to supply, such samples shall be tested, and all deliveries of Zinc under this Contract shall show no variation from such sample.

Branding.—The manufacturer's name or trade mark shall be cast or stamped on each ingot and marked on each sheet.

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation on its premises. At least one ingot and one sheet from each delivery will be tested and held as representing the lot from which it was taken.

METALS.—SPECIFICATION FOR ELECTROLYTIC STEEL INGOTS—*continued*.

Defects showing during Fabrication.—Should any portion of a Zinc sheet show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the zinc sheet has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Zinc Sheet.

Delivery.—All materials specified in this Schedule shall be delivered to the Metropolitan Receiving Depot, and the weights as ascertained at the time of delivery at that depot shall be accepted.

As regards Items Nos. 1771, 1771A, 1772, and 1773, the tenderer shall insert, where provided for in column 5 in the Schedule, the amount at which (in addition to the market price for Lead and Zinc ascertained in manner provided for in the next following note) he tenders to supply the Pig and Sheet Lead and Zinc.

The Lead (Items Nos. 1771 to 1772) and Zinc (Item No. 1773) shall be paid for at the latest cabled market spot price for Lead and Spelter respectively quoted in the Melbourne morning daily newspapers prior to the service of the order (unless, in the judgment of the Comptroller of Stores, the price quoted as aforesaid does not correctly represent the market price for Lead or Spelter prevailing on the day of the date of such cabled market price) plus the sum set opposite to Items Nos. 1771 to 1773 in the Schedule, always provided that if, in the judgment of the Comptroller of Stores, the cabled market price quoted as aforesaid in the Melbourne morning daily newspaper, or any of them, does not correctly represent the market price for Lead or Spelter prevailing on the day of the date of such cabled market price, then the market price prevailing on such day shall be determined by the Comptroller of Stores on evidence satisfactory to him, and such determination by the Comptroller of Stores shall be final and binding, and the rate of payment for the Lead or Zinc referred to on the particular order shall be in accordance with the price so determined by the Comptroller of Stores, plus the sum set opposite to Items Nos. 1771 to 1773 as aforesaid.

*As regards Item No. 1771A the Contractor's purchasing rate from the Broken Hill Associated Smelters Pty. Ltd. is the mean of the "spot" and "forward" quotations for each week, viz., Monday to Friday inclusive, plus 20s. per ton f.o.b. Port Pirie, and in the event of there being any reduction in the manufacturer's selling price same shall be to the Corporation's account.

As regards Items Nos. 1689 to 1740 two tenders have been accepted—The Austral Bronze Co. Ltd. and Brass Co. of Aust. The tender of the Austral Bronze Co. Ltd. is slightly lower, but a trial order is to be placed on the Brass Co. of Australia, so that the suitability of this Company's product may be determined for future guidance, and during the contract period orders may be placed on this Company where it is advantageous to do so.

*As regards Items Nos. 1689A to 1740A (Brass Co. of Aust. Pty. Ltd.) the rates quoted are based on £60 per ton for Electrolytic Copper Wire Bars, and will vary 2s. 4d. per cwt. for every £5 or part per ton variation in the published price of Electrolytic Copper Wire Bars on the date of receipt of an order by the Contractor with a minimum of £41 per ton.

*As regards Items Nos. 1689 to 1740 (Austral Bronze Co., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.), the rates are based on Electrolytic Copper Bars Wire at £55 10s. to £60 per ton and will vary by 2s. 4d. per cwt. for every £5 or part per ton variation in the published price of Electrolytic Copper Wire Bars in the *Argus* newspaper on the date of receipt or order by the Contractor. No reduction below £41.

*As regards Items Nos. 1749 to 1770, the rates are based on Electrolytic Copper Wire Bars at £54 10s. per ton and will vary up or down by one-tenth of a penny per lb., for each complete 17s. 6d. or part thereof by which the price of Wire Bars published in the *Argus* newspaper on the date of receipt of an order is greater than £54 10s. per ton or less than £54 10s. per ton. If on any day no price of Wire Bars is published the price last published shall apply.

*As regards Items Nos. 1741 to 1748 and 1774, the rates do not include Exchange. The Corporation will pay the Contractor the current rate of T.T. exchange ruling on the date of delivery of the stores on 80 per cent. of the contract rate, which is regarded as the c.i.f. value.

*As regards Item No. 1775 the rate is based on Spelter at £15 15s. per ton, and will vary up or down by one-tenth of a penny per lb. for each complete 17s. 6d. or part thereof by which the price of Spelter published in the *Argus* newspaper on the date of receipt of an order is greater than £15 15s. per ton or less than £15 15s. per ton. If on any day no price of Spelter is published the price last published shall apply.

METALS—continued.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
†1687	Aluminium, Ingot	N.S.W.	30 cwt.	cwt.	4 4 0	Ingot Metals Ltd.
†1688	Antimony, Ingot, Regulus of; 99.5 per cent. pure	„	175 „	do.	3 1 0	O. T. Lempriere & Co.
BRASS.						
Brass Rod, hexagon, hard rolled, in 6' to 8' lengths, Whitworth standard—						
1689	$\frac{3}{16}$ " width across flat	N.S.W.		do.	*5.12 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1689A	$\frac{3}{16}$ " „ „ „ „ „	Vict.		do.	*5 13 4	Brass Co. of Aust. Pty. Ltd.
1690	$\frac{1}{2}$ " width across flat, max. 255, min. 250 for nuts	N.S.W.		do.	*5 5 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1690A	$\frac{1}{2}$ " „ „ „ „ „	Vict.		do.	*5.13 4	Brass Co. of Aust. Pty. Ltd.
1691	$\frac{21}{64}$ " width across flat, max. 338, min. 333 for $\frac{3}{8}$ " nuts	N.S.W.		do.	*4 8 8	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1691A	$\frac{21}{64}$ " „ „ „ „ „	Vict.		do.	*5 13 4	Brass Co. of Aust. Pty. Ltd.
1692	$\frac{7}{16}$ " width across flat, max. 448, min. 443, for $\frac{3}{16}$ " nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1692A	$\frac{7}{16}$ " „ „ „ „ „	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1693	$\frac{31}{64}$ " width across flat	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1693A	$\frac{31}{64}$ " „ „ „ „ „	Vict.	See next page	do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1694	$\frac{33}{64}$ " width across flat, max. 525, min. 520, for $\frac{1}{4}$ " nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1694A	$\frac{33}{64}$ " „ „ „ „ „	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1695	$\frac{19}{32}$ " width across flat, max. 600, min. 595, for $\frac{5}{16}$ " nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1695A	$\frac{19}{32}$ " „ „ „ „ „	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1696	$\frac{45}{64}$ " width across flat, max. 710, min. 705, for $\frac{3}{8}$ " nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1696A	$\frac{45}{64}$ " „ „ „ „ „	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1697	$\frac{13}{16}$ " width across flat, max. 820, min. 815, for $\frac{7}{16}$ " nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1697A	$\frac{13}{16}$ " „ „ „ „ „	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1698	$\frac{29}{32}$ " width across flat, max. 920, min. 915, for $\frac{1}{2}$ " nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1698A	$\frac{29}{32}$ " „ „ „ „ „	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<i>METALS—continued.</i>						
<i>BRASS—continued.</i>						
1699	Brass Rod, hexagon, hard rolled, in 6' to 8' lengths, Whitworth standard— <i>continued.</i> 1 1/64" width across flat, max. 1' 010, min. 1' 002 for 1 1/8" nuts	N.S.W.		cwt.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1699A	1 1/64" " " " " "	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1700	1 3/32" width across flat, max. 1' 1, min. 1' 092, for 1 1/8" nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1700A	1 3/32" " " " " "	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1701	1 13/64" width across flat, max. 1' 200, min. 1' 192, for 1 1/8" nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1701A	1 13/64" " " " " "	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1702	1 19/64" width across flat, max. 1' 300, min. 1' 292, for 1 3/8" nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1702A	1 19/64" " " " " "	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1703	1 25/64" width across flat, max. 1' 390, min. 1' 382 for 1 3/8" nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1703A	1 25/64" " " " " "	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1704	1 31/64" width across flat, max. 1' 480, min. 1' 472 for 1 3/8" nuts	N.S.W.	200 cwt.	do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1704A	1 31/64" " " " " (hollow)	Vict.		do.	*5 2 8	Brass Co. of Aust. Pty. Ltd.
1705	1 43/64" width across flat, max. 1' 670, min. 1' 662 for 1" nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1705A	1 43/64" " " " " (hollow)	Vict.		do.	*5 2 8	Brass Co. of Aust. Pty. Ltd.
1706	1 55/64" width across flat, max. 1' 860, min. 1' 850, for 1 1/8" nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1706A	1 55/64" " " " " (hollow)	Vict.		do.	*5 2 8	Brass Co. of Aust. Pty. Ltd.
1707	2 3/64" width across flat, max. 2' 050, min. 2' 040 for 1 1/4" nuts	N.S.W.		do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1707A	2 3/64" " " " " (hollow)	Vict.		do.	*5 2 8	Brass Co. of Aust. Pty. Ltd.
1708	2 7/32" width across flat	N.S.W.		do.	*4 8 8	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1708A	2 7/32" " " " "	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1709	2 15/32" width across flat	N.S.W.		do.	*4 8 8	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1709A	2 15/32" " " " "	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<i>METALS—continued.</i>						
<i>BRASS—continued.</i>						
1710	Brass Rod, hexagon, hard rolled, in 6' to 8' lengths, Whitworth standard— <i>continued.</i> 2½" width across flat	N.S.W.	See previous page.	cwt.	*4 8 8	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1710A	2½" Brass Rod, round, hard rolled, in 6' to 8' lengths for general use, or drop forgings, as ordered—	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1711	1" diameter	N.S.W.		do.	*6 1 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1711A	1"	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1712	3/16"	N.S.W.	See next page.	do.	*5 7 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1712A	3/16"	Vict.		do.	*4 13 4	Brass Co. of Aust. Pty. Ltd.
1713	1/4"	N.S.W.		do.	*5 0 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1713A	1/4"	Vict.		do.	*5 10 0	Brass Co. of Aust. Pty. Ltd.
1714	5/16"	N.S.W.		do.	*5 0 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1714A	5/16"	Vict.		do.	*5 10 0	Brass Co. of Aust. Pty. Ltd.
1715	3/8"	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1715A	3/8"	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1716	7/16"	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1716A	7/16"	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1717	1/2"	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1717A	1/2"	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1718	9/16"	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1718A	9/16"	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1719	5/8"	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1719A	5/8"	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1720	11/16"	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<i>METALS—continued.</i>						
<i>BRASS—continued.</i>						
<i>Brass, Rod, round, hard rolled, in 6' to 8' lengths—continued.</i>						
1720A	$\frac{11}{16}$ " diameter	Vict.	175 cwt.	ewt.	*4 6 4	Brass Co. of Aust. Pty. Pty. Ltd.
1721	$\frac{3}{4}$ "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1721A	$\frac{3}{4}$ "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1722	$\frac{13}{16}$ "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1722A	$\frac{13}{16}$ "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1723	$\frac{7}{8}$ "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1723A	$\frac{7}{8}$ "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1724	$\frac{15}{16}$ "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1724A	$\frac{15}{16}$ "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1725	1"	N.S.W.		do.	*4 4 0	Austral Bronze Co., Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1725A	1"	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1726	$1\frac{1}{8}$ "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1726A	$1\frac{1}{8}$ "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1727	$1\frac{3}{16}$ "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1727A	$1\frac{3}{16}$ "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1728	$1\frac{1}{4}$ "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1728A	$1\frac{1}{4}$ "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1729	$1\frac{3}{8}$ "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1729A	$1\frac{3}{8}$ "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1730	$1\frac{1}{2}$ "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1730A	$1\frac{1}{2}$ "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.
1731	$1\frac{5}{8}$ "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
METALS—continued.							
BRASS—continued.							
Brass, Rod, round, hard rolled, in 6' to 8' lengths—continued.							
1731A	1½" diameter	Vict.	See previous page.	cwt.	*4 6 4	Brass Co. of Aust. Pty. Ltd.	
1732	1¾" "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1732A	1¾" "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.	
1733	1¾" "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1733A	1¾" "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.	
1734	2" "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1734A	2" "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.	
1735	2¼" "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1735A	2¼" "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.	
1736	2½" "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1736A	2½" "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.	
1737	2½" "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1737A	2½" "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.	
1738	2¾" "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1738A	2¾" "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.	
1739	3" "	N.S.W.		do.	*4 4 0	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.	
1739A	3" "	Vict.		do.	*4 6 4	Brass Co. of Aust. Pty. Ltd.	
Brass Rod, square, hard rolled, in 6' to 8' lengths—							
1740	1" square	N.S.W.		4 cwt.	do.	*4 6 4	Austral Bronze Co. Ltd., by their Agents, Noyes Bros. (Melb.) Pty. Ltd.
1740A	1" "	Vict.	do.		*4 13 4	Brass Co. of Aust. Pty. Ltd.	
Brass, Sheet, Best, hard rolled—							
1741	6' x 2' x any of the following thicknesses as ordered:—30, 28, 26, 24, 22, 20, 18, 16, 14, 12 or 10 B gauge	U.K.	}	lb.	*0 0 11½	Briscoe & Co. Ltd.	
1742	6' x 2' x any of the following thicknesses as ordered:—⅜", ¼", or ⅙"	"		do.	*0 0 11		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate. .	Name of Contractor.
					£ s. d.	
METALS—continued.						
BRASS—continued.						
1743	Brass, Sheet, Best, hard rolled—continued. 6' x 3' x any of the following thickness as ordered :—24, 20, 18, 16, 14, 12 or 10 B Gauge	U.K.	25 cwt.	lb.	*0 0 11½	Briscoe & Co. Ltd.
1744	4' x 2' x any of the following thicknesses as ordered :—30, 28, 26, 24, 22, 20, 18, 16, 14, 12 or 10 B Gauge	"		do.	*0 0 11½	
1745	Brass, Sheet, Best, soft rolled— 6' or 4' x 2' x any of the following thicknesses, as ordered :—30, 28, 26, 24, 22, 20, 18, 16, 14, 12, 10, 9 or 8 B Gauge	U.K.	8 cwt.	lb.	*0 0 11½	
1746	6' x 2' x 3/16" or ¼" thick, as ordered	"		do.	*0 0 11	
1747	4' x 1' x ½", ⅝", ¾", ⅞" or 1" thick, as ordered	"		do.	*0 0 11	
1748	6' x 3' x any of the following thicknesses, as ordered :—22, 20, 18, 16, 14, 12 or 10 B gauge	"		do.	*0 0 11½	
1749	Brass Tubing (except Boiler Tubes) solid drawn, any length ordered— ¼" outside diameter x 24, 22, 18 or 16 S.W. gauges, as ordered	N.S.W.	4 cwt.	do.	*0 2 7	George White & Co.
1750	⅝" outside diameter x 20, 18 or 16 S.W. gauges, as ordered	"		do.	*0 2 6	
1751	¾" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 2 2	
1752	⅞" outside diameter x 20, 18, 16 or 14 S.W. gauges, as ordered	"		do.	*0 2 1½	
1753	1" outside diameter x 20, 18, 16, 14 or 10 S.W. gauges, as ordered	"		do.	*0 2 0½	
1754	1⅛" outside diameter x 20, 18 or 16 S.W. gauges, as ordered	"		do.	*0 2 0	
1755	1½" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 11	
1756	1¾" outside diameter x 20, 18, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 10½	
1757	1⅞" outside diameter x 22, 16 or 10 S.W. gauges, as ordered	"		do.	*0 1 10½	
1758	2" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 10½	
1759	1" outside diameter x 20, 18, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 10½	
1760	1½" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 11	
1761	1¾" outside diameter x 20, 18, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 11	
1762	1⅞" outside diameter x 20, 18, 16, 14, 12, or 10 S.W. gauges, as ordered	"		do.	*0 1 11	
1763	2" outside diameter x 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		do.	*0 1 10½	
1764	2⅜" outside diameter x 16 S.W. gauge ..	"		do.	*0 1 10	
1765	2½" outside diameter x 18 S.W. gauge ..	"	do.	*0 2 0½		
1766	2⅞" outside diameter x 16 S.W. gauge ..	"	do.	*0 1 10		
1767	3" outside diameter x 16 S.W. gauge ..	"	do.	*0 1 11		
1768	3¼" outside diameter x 16 S.W. gauge ..	"	do.	*0 1 11		
1769	3½" outside diameter x 16 S.W. gauge ..	"	do.	*0 1 11		
1770	4" outside diameter x 16 S.W. gauge ..	"	do.	*0 2 4½		
LEAD.						
†1771	Lead, Pig, soft (re-melted)	Vict.	23 tons	ton	Nett Market Price.	Moreland Metal Co. Ltd.
†1771A	Lead, Pig, soft, produced from raw material "B.H.A.S." Special	N.S.W.		do.	Market Price Plus.	J. Danks & Son Pty. Ltd.
†1772	Lead, Sheet, any thicknesses ordered, and cut to any sizes ordered	N.S.W. & Vict.	10 "	do.	8 18 2	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
METALS—continued.						
ZINC.						
1773	Zinc, Electrolytic, 99.9 per cent.	Tas.	23 cwt.	cwt.	Market Price Plus. 0 8 0	Briscoe & Co. Ltd.
†1774	Zinc, Sheet, Perforated, 84 holes to the square inch, each hole 0.085" diameter, No. 6 Zinc Gauge (0.011"), in sheets 7' x 3' or 8' x 3', as ordered	U.K.	250 sq. ft.	sq. ft.	*0 0 2½	
†1775	Zinc, Plain, No. 8 Zinc Gauge (0.015"), 9 Zinc Gauge (0.017"), 10 Zinc Gauge (0.019"), 11 Zinc Gauge (0.021"), 12 Zinc Gauge (0.025"), 13 Zinc Gauge (0.028"), 14 Zinc Gauge, (0.031"), as ordered, by any size ordered	Belgium	2 cwt.	lb.	*0 0 5	Geo. White & Co.
1776 to 1780	Nil.					

IRON.

(1.10.30 to 3.9.31.)

SPECIFICATION FOR WROUGHT IRON FLATS—ITEM 1781 AND WROUGHT IRON BARS—ITEMS 1782 TO 1784B).

Particulars.—The Wrought Iron Flats and Bars shall be in accordance with Specification No. 51-1929 of the British Engineering Standards Association as applied to Best Yorkshire Grade (except where shown otherwise in this Specification).

The W.I. Bars shown opposite 1784B for crown stays shall be as specified above, except that the nicked bend test shall be performed at each end of each bar. The fracture test shall not be performed on these bars.

The W.I. Bars shall be commercially straight.

Limits of Tolerance.—The W.I. Flats and Bars (Item 1784a excepted) shall be true to the ordered dimensions within the following limits of tolerance :—

	Minus.	Plus.
Up to ½" diameter, thickness or width	0.007"	0.007"
Over ½" to 1" diameter, thickness or width	0.010"	0.010"
Over 1" to 2" diameter, thickness or width	1-64"	1-32"
Over 2" to 3" diameter, thickness or width	1-32"	3-64"
Over 3" to 5" diameter, thickness or width	1-32"	3-24"
Over 5" to 8" diameter, thickness or width	1-16"	1-8"

Item 1784a for the manufacture of Steam Tight Studs, minus 0.005". Plus 0.010" of the ordered diameter.

Inspection and Tests.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises.

Rejection.—Should the material fail to comply in any particular with this Specification it shall be liable to rejection.

Defects showing during Fabrication.—Should any portion of a W.I. Flat or Bar show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the W.I. Flat or Bar has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Wrought Iron Flat or Bar.

Painting.—Each Flat and Bar shall prior to delivery be clearly and durably painted on each end with RED paint by and at the cost of the Contractor.

ROLLED IRON (AUSTRALIAN)—Items Nos. 1785-1801.

The whole of the Scrap for the manufacture of the Rolled Iron under this Contract shall be purchased by the Contractor from the Corporation, and except as hereinafter provided shall be paid for by the Contractor at a fixed rate of £2 per ton, delivered in trucks at Spencer-street Railway Station, and the rates set opposite to items numbered respectively 1785 to 1801 in this Schedule must include the cost of the said Scrap.

To cover waste in the case of the Double Rolled Iron, the Contractor shall purchase as aforesaid 25 per centum of Scrap in excess of any quantity of Double Rolled Iron which may be ordered from time to time. To cover waste in the case of the Treble Rolled Iron, the Contractor shall purchase as aforesaid 30 per centum of Scrap in excess of any quantity of Treble Rolled Iron which may be ordered from time to time. Provided in the event of the Contractor requiring for the purposes of this Contract any quantity of Scrap exceeding the respective percentages as aforesaid, then in every such case he shall pay for such excess at the rate of £3 per ton. Payment at the rate or rates aforesaid shall be made by the Contractor to the Chief Accountant of the Victorian Railways (within 48 hours after demand) for any Scrap which may be supplied to the Contractor from time to time as hereinbefore provided, and failing payment as aforesaid, the Corporation shall be entitled to deduct any amount owing for the said Scrap from any money due, or which may become due, to the Contractor under this Contract.

Only the net weight of Rolled Iron delivered (after crop and bad ends have been cut off) shall be paid for.

The Rolled Iron shall be entirely manufactured from the Scrap purchased from the Corporation as aforesaid, and shall be paid for by the Corporation on the basis of the net weight of such Rolled Iron, when supplied and delivered in strict accordance with all the provisions and requirements of the annexed Conditions of Contract and this Schedule, and to the satisfaction in every respect of the Comptroller of Stores.

SPECIFICATION DOUBLE ROLLED IRON—Items 1785 TO 1797 (inclusive).

Freedom from Defects.—All Rolled Iron Bars and Flats shall be sound, free from flaws, cracks, cropends, and any other injurious defects and finished in a workmanlike manner.
The R.I. Bars shall be commercially straight.

IRON.—SPECIFICATION FOR DOUBLE ROLLED IRON—continued.

Rolling and Cutting Margin.—The Rolled Iron Bars and Flats shall be well and cleanly rolled, true to the ordered dimensions within the following limits of tolerance.

	Minus.	Plus.
Up to $\frac{1}{2}$ " diameter, thickness or width	0·007"	0·007"
Over $\frac{1}{2}$ " to 1" diameter, thickness or width	0·010"	0·010"
Over 1" to 2" diameter, thickness or width	$\frac{1}{16}$ "	$\frac{1}{16}$ "
Over 2" to 3" diameter, thickness or width	$\frac{1}{32}$ "	$\frac{1}{32}$ "
Over 3" to 5" diameter, thickness or width	$\frac{1}{32}$ "	$\frac{1}{32}$ "
Over 5" to 8" diameter, thickness or width	$\frac{1}{16}$ "	$\frac{1}{16}$ "

The Bars and Flats shall be cut to the ordered length within the following limits of tolerance. Plus 2", minus nil.

Tensile Tests.—Double Rolled Iron Bars and Flats. An Australian Standard Test Piece "A" or test piece "B" (only if the material as rolled does not permit of the cutting of test piece "A") cut from the Flats, and an Australian Standard test piece "B" cut from the Bars as rolled, for round and square bars up to 1" diameter or thickness, or turned down for bars over 1" diameter or thickness, shall show a tensile breaking strength of 21 to 24 tons per square inch, with an elongation of not less than 18 per cent.

Any straightening of test pieces which may be required shall be done cold.

Number of Tensile Tests.—One tensile test will be taken from every 3 tons or portion thereof in each delivery of rolled iron, and shall be held as representing the lot from which it was taken.

Inspection and Tests.—All inspection and tests will be conducted by and at the cost of the Corporation at its premises.

Rejection.—Should the material fail to comply in any particular with this Specification, it shall be liable to rejection.

Defects showing during Fabrication.—Should any portion of a Flat or Bar show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the Flat or Bar has been properly treated by the Corporation the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Flat or Bar.

Painting.—The Rolled Iron shall, prior to delivery, be clearly and durably painted at each end by and at the expense of the Contractor as follows, that is to say:—

Double Rolled Iron shall be painted with White Paint.

Treble Rolled Iron shall be painted with Black Paint.

SPECIFICATION TREBLE ROLLED IRON—Items 1798 to 1801.

Treble Rolled Iron, shall be in accordance with the Specification for Double Rolled Iron, except that the tensile test pieces shall show a tensile breaking strength of 22 to 25 tons per square inch, with an elongation of not less than 22 per cent.

SPECIFICATION INGOT IRON BARS AND BILLETS—Items 1802 to 1831 inclusive.

Chemical Analysis.—The Ingot Iron Bars and Billets shall show on analysis:—

Carbon	Maximum 0·10 per cent.
Sulphur	0·07 "
Phosphorus	0·07 "
Silicon—Minimum 0·15 per cent.	0·30 "
Manganese—Minimum 0·40 per cent.	0·60 "

The Contractor shall submit an analysis of each cast with each delivery of Ingot Iron. The Corporation shall have the right to make a check analysis if it so desires, and the chemical composition so determined shall be in accordance with the above requirements. All analysis shall be carried out in accordance with requirements of Specification No. K1-1926 of the Australian Commonwealth Engineering Standards Association.

Freedom from Defects.—The Ingot Iron Bars and Billets shall be free from cracks, surface flaws, laminations and any other injurious defects. Sufficient discard shall be cropped to remove all pipe or contraction cavities. The Billets and Bars shall be cut square on the ends and finished in a workmanlike manner, and shall be commercially straight.

Rolling and Cutting Margin.—The Ingot Iron Bars shall be true to the ordered dimensions within the following limits of tolerance:—

	Minus.	Plus.
Up to $\frac{1}{2}$ " diameter, thickness or width	0·007"	0·007"
Over $\frac{1}{2}$ " to 1" diameter, thickness or width	0·010"	0·010"
Over 1" to 2" diameter, thickness or width	$\frac{1}{16}$ "	$\frac{1}{16}$ "
Over 2" to 3" diameter, thickness or width	$\frac{1}{32}$ "	$\frac{1}{32}$ "
Over 3" to 5" diameter, thickness or width	$\frac{1}{32}$ "	$\frac{1}{32}$ "
Over 5" to 8" diameter, thickness or width	$\frac{1}{16}$ "	$\frac{1}{16}$ "

The Ingot Iron Billets shall be true to the ordered dimensions within the following limits of tolerance:—

Section dimensions under 4"—Plus or minus $\frac{1}{16}$ ".
Section dimensions 4" to 6"—Plus $\frac{1}{16}$ ", minus $\frac{1}{16}$ ".
Length, plus 2", minus nil.

Branding and Painting.—Each Bar and Billet shall be distinctly stamped with the cast number and the manufacturer's name or trade mark, and a brand indicating that it is Ingot Iron, and shall be painted white with a black band on each end, by and at the cost of the Contractor.

Impact Test.—A test piece 10 mm square, having a 45 degree notch 2 mm. deep, machined cold from the Ingot Iron Bars or Billets, shall absorb not less than 60 foot lbs. of energy when broken in a standard Izod impact testing machine. One Impact test shall be taken from each cast in each delivery of Ingot Iron and shall be held as representing the lot from which it was taken.

Brinell Test.—The Ingot Iron Bars, and Billets shall show a hardness number of not less than 100 when measured by the Brinell test.

Rejection.—Should the material fail to comply in any particular with this Specification, it shall be liable to rejection.

Defects showing during Fabrication.—Should any portion of an Ingot Iron Bar or Billet show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the Ingot Iron Bar or Billet has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Ingot Iron Bar or Billet.

SPECIFICATION FOR NUT INGOT IRON—Item No. 1832.

Particulars.—The Nut Ingot Iron shall have a sulphur content of from 0·10 per cent. to 0·20 per cent. Except for this, the Impact test and the Hardness test, the Nut Ingot Iron shall be in accordance with the Specification for Ingot Iron.

In the event of the Iron tendered under this Schedule being of Australian manufacture, the Contractor shall, during the currency of this Contract, furnish the Comptroller of Stores, with the address or addresses of the place or places at which the Iron is being manufactured, and the Comptroller of Stores, or any person appointed by him from time to time, shall at all times during business hours have free access to such place or places, and shall be afforded every facility for inspecting the Iron while in process of manufacture. No sub-letting will be allowed.

Delivery.—

Items Nos. 1781 to 1801 will be given loaded into trucks at Spencer-street.

Items Nos. 1802 to 1832 will be given loaded into trucks at Little Brooklyn Siding.

*As regards Items Nos. 1826, 1827, and 1828 the rates are based on the condition that the billets can be rolled from 6-in. ingots. Should it be necessary to forge from larger than 6-in. ingots the rates are to be increased to £18 2s. 6d. per ton.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
IRON—continued.						
1781	Wrought Iron (Yorkshire Grade) as specified— Flat Bars—All sizes mentioned for Double Rolled Iron—Items 1785-1794 Round or Square Bars, any length ordered by any of the following diameters or thicknesses ordered—	Vict.	8 tons	ton	26 0 0	Melbourne Iron and Steel Mills Pty. Ltd.
1782	$\frac{1}{4}$ " up to $\frac{3}{8}$ " advancing by $\frac{1}{16}$ "	"	95 "	do.	26 0 0	
1783	Over $\frac{3}{8}$ " up to $1\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	"		do.	26 0 0	
1784	Over $1\frac{1}{2}$ " up to 3" advancing by $\frac{1}{8}$ "	"		do.	26 0 0	
1784A	$\frac{5}{8}$ ", $\frac{3}{4}$ ", or $\frac{7}{8}$ " diameter. Round Bars for steam tight studs	"		do.	26 0 0	
1784B	1" diameter. Bars for Crown Stays	"		do.	26 0 0	
	Double Rolled Iron (as specified)— Flat Bars, any length ordered, and in any of the following thicknesses and sizes as ordered—					
1785	$\frac{3}{8}$ " and $\frac{7}{8}$ " x $\frac{7}{16}$ " to $\frac{5}{8}$ ", advancing by $1/32$ "	"	145 "	do.	16 15 0	
1786	1" x $\frac{1}{4}$ " to $\frac{5}{8}$ "	"		do.	16 15 0	
1787	$1\frac{1}{8}$ " x $\frac{1}{4}$ " to $\frac{3}{4}$ "	"		do.	16 15 0	
1788	$1\frac{1}{2}$ " x $\frac{1}{4}$ " to $\frac{3}{4}$ "	"		do.	16 15 0	
1789	$1\frac{3}{8}$ " and $1\frac{1}{2}$ " x $\frac{1}{4}$ " to 1"	"		do.	16 15 0	
1790	$1\frac{3}{4}$ " and 2" x $\frac{1}{4}$ " to $1\frac{1}{4}$ "	"		do.	16 15 0	
1791	$2\frac{1}{4}$ ", $2\frac{1}{2}$ " and $2\frac{3}{4}$ " x $\frac{1}{4}$ " to $1\frac{1}{2}$ "	"		do.	16 15 0	
1792	3", $3\frac{1}{2}$ " 4" and $4\frac{1}{2}$ " x $\frac{1}{4}$ " to 2"	"		do.	16 15 0	
1793	5" and $5\frac{1}{2}$ " x $\frac{1}{4}$ " to $2\frac{1}{2}$ "	"		do.	16 15 0	
1794	6" x $\frac{1}{4}$ " to 2"	"		do.	16 15 0	
	Round or Square Bars, any length ordered by any of the following diameters or thicknesses ordered—					Nil
1795	$\frac{1}{4}$ " up to $\frac{3}{8}$ " advancing by $\frac{1}{16}$ "	"	150 "	do.	16 15 0	
1796	Over $\frac{3}{8}$ " up to $1\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	"		do.	16 15 0	
1797	Over $1\frac{1}{2}$ " up to 3" advancing by $\frac{1}{8}$ "	"		do.	16 15 0	
	Treble Rolled Iron (as specified)— Round or Square Bars, any length ordered, by any of the following diameters or thickness ordered—					
1798	$\frac{1}{2}$ " up to $\frac{5}{8}$ " advancing by $\frac{1}{16}$ "	"	30 "	do.	23 0 0	
1799	Over $\frac{5}{8}$ " up to $1\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	"		do.	23 0 0	
1800	Over $1\frac{1}{2}$ " up to 3" advancing by $\frac{1}{8}$ "	"		do.	23 0 0	
1801	Over 3" up to 4" advancing by $\frac{1}{8}$ "	"		do.	..	
	Ingot Iron (as specified)— Flat Bars, any length ordered, and in any of the following thicknesses and sizes as ordered—					
1802	1" and $1\frac{1}{8}$ " x $\frac{1}{4}$ " to $\frac{5}{8}$ " advancing by $1/32$ "	"	50 "	do.	16 2 6	
1803	$1\frac{1}{8}$ " x $\frac{1}{4}$ " to $\frac{7}{8}$ " advancing by $1/32$ "	"		do.	16 2 6	
1804	$1\frac{3}{8}$ " and $1\frac{1}{2}$ " x $\frac{1}{4}$ " to 1" advancing by $1/32$ "	"		do.	16 2 6	
1805	$1\frac{3}{4}$ " and 2" x $\frac{1}{4}$ " to $1\frac{1}{4}$ " advancing by $1/32$ "	"		do.	16 2 6	
1806	$2\frac{1}{4}$ ", $2\frac{1}{2}$ ", and $2\frac{3}{4}$ " x $\frac{1}{4}$ " to $1\frac{1}{2}$ " advancing by $1/16$ "	"		do.	16 2 6	
1807	$2\frac{1}{2}$ " x 2"	"		do.	16 2 6	
1808	Nil	"				
1809	3" x $\frac{1}{4}$ " to 2" advancing by $\frac{1}{16}$ "	"		do.	16 2 6	
1810	$3\frac{1}{4}$ " x $1\frac{1}{2}$ " to $2\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	"		do.	16 2 6	
1811	Nil	"				
1812	$3\frac{1}{8}$ " x $\frac{3}{8}$ " to $2\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	"		do.	16 2 6	Melbourne Iron and Steel Mills Pty. Ltd.
1813	$3\frac{3}{8}$ " x $1\frac{1}{2}$ " to $2\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	"		do.	16 2 6	
1814	4", $4\frac{1}{2}$ ", and 5" x $\frac{3}{8}$ " to 2" advancing by $\frac{1}{16}$ "	"		do.	16 2 6	
1815	$4\frac{1}{4}$ " x $1\frac{1}{4}$ " to 2" advancing by $\frac{1}{16}$ "	"		do.	16 2 6	
1816	$4\frac{3}{4}$ " x $1\frac{1}{2}$ " to 2" advancing by $\frac{1}{16}$ "	"		do.	16 2 6	
1817	$5\frac{1}{4}$ ", $5\frac{1}{2}$ ", and $5\frac{3}{4}$ " x $1\frac{1}{4}$ " to $1\frac{3}{4}$ " advancing by $\frac{1}{16}$ "	"		do.	16 2 6	
1818	6" x $\frac{3}{8}$ " to $1\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	"		do.	16 2 6	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
IRON—continued.						
	Ingot Iron (as specified)—					
	Round or Square Bars, any length ordered, by any of the following diameters or thicknesses ordered—					
1819	From $\frac{5}{8}$ " up to $1\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	Vict.	150 tons	ton	16 2 6	Melbourne Iron and Steel Mills Pty. Ltd.
1820	Over $1\frac{1}{2}$ " up to 3" advancing by $\frac{1}{8}$ "	"		do.	16 2 6	
1821	Over 3" up to $3\frac{5}{8}$ " advancing by $\frac{1}{8}$ "	"		do.	16 2 6	
	Ingot Iron Billets (as specified)—					
1822	$1\frac{3}{4}$ " x $1\frac{3}{4}$ " x trade lengths	"	25 "	do.	13 12 6	
1823	2" x 2" "	"	4 "	do.	13 12 6	
1824	$2\frac{1}{4}$ " x $2\frac{1}{4}$ " "	"	13 "	do.	13 12 6	
1825	$2\frac{1}{2}$ " x $2\frac{1}{2}$ " "	"	8 "	do.	13 12 6	
1826	3" x 3" "	"	8 "	do.	*15 12 6	
1827	$3\frac{1}{2}$ " x $3\frac{1}{2}$ " "	"	15 "	do.	*15 12 6	
1828	4" x 4" "	"	15 "	do.	*15 12 6	
1829	$4\frac{1}{2}$ " x $4\frac{1}{2}$ " "	"	13 "	do.	18 2 6	
1830	5" x 5" "	"	8 "	do.	18 2 6	
1831	$5\frac{1}{2}$ " x $5\frac{1}{2}$ " "	"	8 "	do.	18 2 6	
	Ingot Nut Iron (as specified)—					
	In trade lengths					
1832	For all sizes of nuts from $\frac{1}{2}$ " to 2"	"	45 "	do.	16 2 6	

* See note on page 31.

STEEL.

(1.10.30 to 30.9.31.)

SPECIFICATION FOR DOGSPIKE STEEL (Item No. 1839), and FISHBOLT NUT STEEL (Items Nos. 1843-1845).

Particulars.—The Dogspike and Fishbolt Nut Steel shall be in accordance with Specification No. A1-1928 of the Australian Commonwealth Engineering Standards Association for "A" class steel as applied to round bars (clause 5, paragraph "B") for Dogspike Steel, and as applied to flat bars for Fishbolt Nut Steel (except where shown otherwise in this Specification).

Rolling Margin.—The Steel Bars shall be commercially straight and true to the ordered dimensions within the following limits of tolerance :—

	Plus.	Minus.
Over $\frac{1}{4}$ inch up to 1 inch diam., thickness or width ..	0·010 inch	0·010 inch
Over 1 inch up to 2 inches diam., thickness or width ..	0·0156 inch	0·0156 inch

Cutting margin 2 inches over, nothing under.

Painting.—The ends of each steel bar shall be painted (by and at the cost of the Contractor) with blue paint.

Defects Showing During Fabrication.—Should any portion of a Steel Bar show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the Steel Bar has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective Steel Bar.

Rejection.—Should the material fail to comply in any particular with this Specification, it shall be liable to rejection.

SPECIFICATION FOR FISHBOLT STEEL (Items Nos. 1840 to 1842).

Particulars.—The Fishbolt Steel shall be in accordance with Australian Standard Specification No. E25-1928 (except where shown otherwise in this Specification).

Rolling Margin.—The Steel Bars shall be commercially straight and within the following limits of tolerance :—

	Plus.	Minus.
Over $\frac{1}{4}$ inch diam., up to 1 inch diam. ..	0·010 inch	0·010 inch
Cutting Margin, 2 inch over, nothing under.		

Branding.—The Steel Bars shall be legibly marked with the Cast number, the manufacturer's name or trade mark and a brand indicating that it is Fishbolt quality steel, or if delivered in bundles shall have a tag attached showing the necessary information.

Painting.—The Fish Bolt Bars shall prior to delivery be clearly and durably painted on each end with two colours by and at the cost of the Contractor. The colours to be decided by the Contractor.

Defects Showing During Fabrication.—Should any portion of a Steel Bar show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the Steel Bar has been properly treated by the Corporation the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective Steel Bar.

Rejection.—Should the material fail to comply in any particular with this Specification, it shall be liable to rejection.

SPECIFICATION FOR MILD STEEL SECTIONS, FLATS, ROUND, RIVET AND SQUARE BARS (Items Nos. 1846 to 1900 and 1902 to 1908).

Particulars.—The Mild Steel Sections, Flats, Round and Square Bars shall (except where shown otherwise in this Specification) be in accordance with Specification No. A1-1928 of the Australian Commonwealth Engineering Standards Association for Class "A" Steel. A Standard Test piece "B" taken from the Rivet Bars shall show a tensile breaking strength of 24 to 28 tons per square inch, with an elongation of not less than 27 per cent.

STEEL.—SPECIFICATION FOR MILD STEEL SECTION, ETC.—continued.

Rolling Margin.—The Mild Steel Flats, Round, Rivet and Square Bars shall be commercially straight, and shall be true to the ordered dimensions within the following limits of tolerance :—

	Minus.	Plus.
Up to $\frac{1}{2}$ inch diam., thickness or width	0.007 inch ..	0.007 inch
Over $\frac{1}{2}$ inch to 1 inch diam., thickness or width	0.010 ..	0.010 ..
Over 1 inch to 2 inches diam., thickness or width	$\frac{1}{64}$ " ..	$\frac{1}{32}$ " ..
Over 2 inches to 3 inches diam., thickness or width	$\frac{1}{32}$ " ..	$\frac{3}{64}$ " ..
Over 3 inches to 5 inches diam., thickness or width	$\frac{1}{32}$ " ..	$\frac{3}{32}$ " ..
Over 5 inches to 8 inches diam., thickness or width	$\frac{1}{16}$ " ..	$\frac{3}{8}$ " ..

As regards *Items Nos. 1864 to 1877*, Angles may be required cold straightened. The order will indicate whether this additional service is required. An extra charge of 5s. per ton will be made by the Contractor.

Painting.—All Mild Steel Flats and Bars (Rivet Bars excepted) shall, prior to delivery, be clearly and durably painted on each end with Blue Paint, and Rivet Bars shall be clearly and durably painted on the ends with Green Paint, all painting to be done by and at the cost of the Contractor.

Defects Showing During Fabrication.—Should any Mild Steel Section, Flat or Bar, show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the Mild Steel Section, Flat or Bar, has been properly treated by the Corporation, the Contractor shall at his own expense, and at the discretion of the Comptroller of Stores, replace or make good the defective Mild Steel Section, Flat or Bar.

Rejection.—Should the material fail to comply in any particular with this Specification, it shall be liable to rejection.

SPECIFICATION FOR ROUND EDGE STEEL FLAT FOR DRAFT KEYS (Item No. 1901).

Particulars.—The Steel Flat shall be in accordance with the particulars shown on V.R. Drawing No. 7645. It shall be manufactured by an approved process, and shall show on analysis not more than 0.04 per centum of Sulphur or of Phosphorous and a standard test piece "C" shall show a tensile breaking strength of 32 tons per square inch with an elongation of not less than 25 per cent., to 38 tons per square inch with an elongation of not less than 20 per cent. In all other respects it shall be in accordance with Specification No. A1—1928 of the Australian Commonwealth Engineering Standards Association.

The Steel Flat shall be commercially straight.

Branding.—The Steel Bars shall be legibly marked with the cast number, the manufacturer's name or trade mark and a brand indicating that it is "Draft Key" quality steel.

Defects Showing During Fabrication.—In the event of any Steel Bar showing injurious defects in course of fabrication, by the Corporation, the Contractor shall be notified, and provided the Steel Bar has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Steel Bar.

Rejection.—Should the material fail to comply in any particular with Specification it will be liable to rejection.

SPECIFICATION FOR HOOP STEEL (Items Nos. 1909 to 1922), and MILD STEEL SHEETS (Items Nos. 1927 to 1952).

Particulars.—The Hoop Steel and Mild Steel Sheets shall be in accordance with Specification No. 18—1911 of Report No. 24 of the British Engineering Standards Association or Australian Standard Specification No. A1—1928 (except where shown otherwise in this Specification).

Rolling and Cutting Margin.—No Hoop or Sheet shall be more than 7 per cent. over or 3 per cent. under the specified thickness. No Sheet shall be under nor more than $\frac{1}{8}$ inch and $\frac{3}{8}$ inch over, the specified length and width respectively.

Inspection and Tests.—All inspection and tests will be conducted by and at the cost of the Corporation at its premises.

Defects Showing During Fabrication.—Should any portion of a Hoop or Sheet show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the Hoop or Sheet has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Sheet or Hoop.

Rejection.—Should the material fail to comply in any particular with this Specification, it shall be liable to rejection.

SPECIFICATION FOR SPRING STEEL (Items Nos. 1959 to 1966) FOR LAMINATED, VOLUTE AND HELICAL SPRINGS.

Particulars.—The Spring Steel as shown opposite *Item 1959* shall be in accordance with Australian Standard Specification No. E3—1925T, and the Spring Steel as shown opposite *Items 1960 to 1966* shall be in accordance with Australian Standard Specification No. E5—1925T (except where shown otherwise in this Specification).

The Spring Steel shall be commercially straight.

Chemical Analysis, &c.—The Spring Steel shall show on analysis—

Steel for Laminated Springs—*Item No. 1959*—

Carbon—0.5 to 0.6 per cent.
Manganese—0.55 to 0.7 per cent.
Sulphur } 0.05 maximum.
Phosphorous }

Steel for Volute and Helical Springs—*Items Nos. 1960 to 1966*—

Carbon—0.85 to 0.95 per cent.
Manganese—0.55 to 0.70 per cent.
Sulphur } 0.05 maximum.
Phosphorous }

The Contractor shall supply a chemical analysis and documentary evidence that each cast of steel in each delivery has passed the specified tests. The Steel for Volute and Helical Springs shall be capable of being oil hardened.

Branding.—Each Bar shall be stamped with the Manufacturer's name or trade mark and the cast number, but if Round Steel be delivered in bundles a tag shall be attached showing these details.

Brinell Test.—The Steel for Laminated Springs as delivered shall show a Brinell hardness number of not more than 212.

Limits of Tolerance.—The Round Bars for Helical Springs shall be true to the specified diameter within the following limits of tolerance :—

	Plus.	Minus.
Up to $\frac{1}{2}$ inch diam.	0.010 inch ..	0.010 inch
Over $\frac{1}{2}$ inch up to $1\frac{1}{2}$ inch diam.	0.015 " ..	0.010 " ..
Over $1\frac{1}{2}$ inch diam.	0.020 " ..	0.010 " ..

Cutting margin 2 inches over, nothing under.

Painting.—The Bars for Laminated Springs shall, prior to delivery, be clearly and durably painted on each end with Yellow Paint. The Bars for Volute and Helical Springs shall, prior to delivery, be clearly and durably painted on each end with Purple Paint. All paintings shall be performed by and at the cost of the Contractor.

Defects showing during Fabrication.—Should any portion of a Steel Bar show injurious defects in course of fabrication by the Corporation, the Contractor shall be notified, and provided the Steel Bar has been properly treated by the Corporation, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective Steel Bar.

Rejection.—Should the material fail to comply in any particular with this Specification, it shall be liable to rejection.

STEEL—continued.

SPECIFICATION FOR STEEL, NICKEL, ROUND (Items Nos. 1967 to 1972).

Eagle and Globe Steel Co. Ltd.

Specification for Items 1967 to 1970:—

Mechanical test—as rolled.
 Maximum stress—35 tons per square inch.
 Elastic limit—25 tons per square inch.
 Elongation in 2 inches—20 per cent.
 Reduction of area—52 per cent.
 Brinell hardness—166.
 Analysis—

Carbon—15 per cent. to 20 per cent.
 Nickel—2 per cent. to 2.5 per cent.

The 1½ inch and 2 inch diameter Nickel Steel shall have a manganese content of .4 to .6 per cent. and carbon .3 to .4 per cent.

The 1½ inch Nickel Steel to be heat treated, suitable for machining and the maximum stress shall be 50 to 60 tons to the square inch. The other sizes specified shall be in a normalized state.

* The Contracts for Steel are subject to the following conditions:—

Broken Hill Pty. Co. Ltd., and McPherson's Pty. Ltd., as agents for the Australian Iron and Steel Limited.

Rates cover delivery c.i.f. Melbourne, but wherever practicable delivery will be given direct from ship's slings into railway trucks, in order that cartage charges may be obviated.

Wharfage and stevedoring is to the Department's account, and copy of order to be forwarded to Shipping Clerk

Contractor's Certificate of Inspection will be accepted, and such certificate shall be forwarded to the Comptroller of Stores covering each delivery, by the Contractor.

In the event of any steel after delivery at Melbourne not being in good order and condition or being found to be faulty during course of fabrication, provided the material has been properly treated by the Corporation, and the Contractor is notified, same shall be replaced free of charge to the Department c.i.f., Melbourne.

Weights as ascertained over the company's weighbridge in the presence of the Inspecting Engineer, will be accepted, provided the full number of bars is received at Melbourne.

A copy of each order issued is to be forwarded to the Inspecting Engineer requesting him to witness weighing and forward certificate. (Inspection by Inspecting Engineer not required.)

Sufficient time for rolling and shipping is to be allowed for each order placed, and orders are to be placed in such a way as to make reasonable rolling tonnages when practicable.

As regards Item No. 1843, the minimum quantity to be ordered in one lot is 5 tons and 10 tons under Items Nos. 1844 and 1845.

In the event of the current market prices falling or rising during the currency of this Contract, such fall or rise, as the case may be, shall be debited or credited in respect to the undelivered balance of any material ordered, as at the date of such alteration in the price.

Both Companies will probably claim 1s. 3d. per ton to cover the increased cost of production resulting from the imposition of Sales Tax on commodities in the process of manufacture. In accordance with the conditions of tendering, both Companies are entitled to claim this amount during the time the increased costs apply.

As regards Items Nos. 1959 to 1961 the sizes shown are those usually rolled by the Company, but if additional sizes be required the Company will endeavour to manufacture and will supply at the contract rate.

Melbourne Iron and Steel Mills Pty. Ltd.

The rates tendered are subject to adjustment by mutual arrangement between the Comptroller of Stores and the Contractor, should there be any alteration in the working hours or wages due to Arbitration Court Awards.

In the event of there being any rise or fall in the price of Broken Hill Pty. Co.'s Mild Steel Blooms or Billets, the contract rates shall be adjusted by a like amount plus 10 per cent. to cover waste. In this connexion the Contractors have agreed not to make any claim to cover the recent increase announced by the Broken Hill Pty. Co. Ltd. of 1s. 3d. per ton to cover the cost of Sales Tax on commodities used in the process of manufacture of Steel Blooms and Billets.

As regards Item No. 1901, delivery will be given into railway trucks at Little Brooklyn; the balance at Spencer-street.

United Steel Companies Ltd.

Orders are to be placed on the United Steel Companies Ltd. when requirements can be anticipated and sufficient time allowed for importation. As the rate quoted by the alternative Contractor for local material is outside the measure of preference, the United Steel Companies Ltd. is entitled to the business, provided there are no further impositions of Customs Duty which would affect the comparison of tenders.

When placing orders, the Contractor should be requested to furnish Bill of Lading and documents for Customs purposes to the Comptroller of Stores.

Inspection after delivery at Newport.

Newport weights to be accepted.

Payment in Melbourne.

Ten weeks to be allowed for delivery.

The rates tendered are c.i.f. & e., Melbourne.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
	DOGSPIKE STEEL.					
1839	Steel, Dogspike, Bar, ¾", round, in 18' to 20' lengths	N.S.W.	225 tons	ton	*12 5 0 c.i.f.	The Broken Hill Pty. Co. Ltd.
	FISHBOLT AND NUT STEEL. IN 18'-20' LENGTHS					
1840	Steel, Fishbolt— ¾" diameter	N.S.W.	3 tons	ton	*12 5 0 c.i.f.	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
STEEL—continued.						
FISHBOLT AND NUT STEEL, ETC.—continued.						
1841	Steel Fishbolts— 7/8" diameter	N.S.W.	9 tons	ton	*12 5 0 c.i.f.	The Broken Hill Pty. Co. Ltd.
1842	1" diameter	"	40 "	do.	*12 5 0 c.i.f.	
1843	Steel, Fishbolt, Nut— 1 1/2" x 3/4", for manufacture of 3/4" nuts ..	"	3 "	do.	*13 15 0 c.i.f.	
1844	1 13/32" x 1 5/16", for manufacture of 3/4" nuts	"	5 "	do.	*13 15 0 c.i.f.	
1845	1 9/16" x 1 3/32", for manufacture of 1" nuts	"	18 "	do.	*13 15 0 c.i.f.	
MILD STEEL.						
Steel, Rivet, round, in 18'-20' lengths—						
1846	31/64" diameter	U.K.	5 tons	ton	9 10 0 c.i.f. & e.	The United Steel Com- panies Ltd.
1846A	31/64"	Vict.		do.	16 15 0		Melbourne Iron & Steel Mills Pty. Ltd.
1847	39/64"	U.K.	5 "	do.	9 5 0 c.i.f. & e.	The United Steel Com- panies Ltd.
1847A	39/64"	Vict.		do.	15 15 0		Melbourne Iron & Steel Mills Pty. Ltd.
1848	47/64"	U.K.	15 "	do.	9 5 0 c.i.f. & e.	The United Steel Com- panies Ltd.
1848A	47/64"	Vict.		do.	15 15 0		Melbourne Iron & Steel Mills Pty. Ltd.
1849	51/64"	U.K.	45 "	do.	9 5 0 c.i.f. & e.	The United Steel Com- panies Ltd.
1849A	51/64"	Vict.		do.	15 15 0		Melbourne Iron & Steel Mills Pty. Ltd.
1849B	55/64"	U.K.	3 "	do.	9 5 0 c.i.f. & e.	The United Steel Com- panies Ltd.
1849C	55/64"	Vict.		do.	15 15 0		Melbourne Iron & Steel Mills Pty. Ltd.
1850	59/64"	U.K.	3 "	do.	9 5 0 c.i.f. & e.	The United Steel Com- panies Ltd.
1850A	59/64"	Vict.		do.	15 15 0		Melbourne Iron & Steel Mills Pty. Ltd.
1851	63/64"	U.K.	3 "	do.	9 5 0 c.i.f. & e.	The United Steel Com- panies Ltd.
1851A	63/64"	Vict.		do.	15 15 0		Melbourne Iron & Steel Mills Pty. Ltd.
Mild Steel, Bevel, Channel, and Fishplate to sections specified and gauges supplied—						
1852	To section of Locking Ring, Drawing No. 40·5 and to Gauge Drawing No. 48·2 in lengths as ordered, to cut 8' 4" or 8' 10" without waste	"	4 "	do.	28 0 0	Melbourne Iron & Steel Mills Pty. Ltd.
1853	To section of Channel Drawing 40·6 and to Gauge Drawing No. 48·1 in lengths as ordered, to cut 8' 2" or 8' 8" without waste	"	12 "	do.	25 0 0	
1854	To section of Tire Retaining Ring, Drawing No. 6748, to cut 9' 9" lengths without waste	"	12 "	do.	25 0 0	
1855	Bevel, 2" x 3/8" x 1/8" in trade lengths ..	"	1 "	do.	.. ..	Nil
*1856	Mild Steel Channel, in lengths from 12' to 23'	Vict.	25 "	do.	19 10 0	Melbourne Iron & Steel Mills Pty. Ltd.
*1857	Mild Steel Fishplate, for Channel ..	"	2 "	do.	19 10 0	
Mild Steel Channels—						
1858	4" x 2" up to 30' in length	"	4 "	do.	.. ..	Nil
1859	6" x 3" up to 35' in length	"	10 "	do.	.. ..
1860	7" x 3" up to 35' in length	"	18 "	do.	.. ..
1860A	10" x 3 1/2" x 24·46 lb. in 22' lengths, or trade lengths, as ordered	"	15 "	do.	.. ..

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
STEEL—continued.							
MILD STEEL—continued.							
Angle of equal and unequal sides of the following sizes, thicknesses, and lengths, advancing by $\frac{1}{32}$ in thickness— (If Angles are required to be cold straightened, an additional charge of 5s. per ton will be made. Each order will indicate whether cold straightening is required.)							
1861	1" x 1" x $\frac{3}{16}$ " to $\frac{1}{2}$ " up to 35' long	Vict.	200 tons	ton.	15 15 0	Melbourne Iron & Steel Mills Pty. Ltd.	
1862	1 $\frac{1}{8}$ " x 1 $\frac{1}{8}$ " x $\frac{3}{16}$ " to $\frac{1}{2}$ " up to 35' long	"		do.	15 15 0		
1863	1 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ " x $\frac{1}{2}$ " to $\frac{3}{4}$ " up to 35' long	"		do.	15 15 0		
1864	1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x $\frac{1}{2}$ " to $\frac{3}{4}$ " up to 30' long	"		do.	15 15 0		
1865	1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x $\frac{1}{2}$ " to $\frac{3}{4}$ " up to 30' long	"		do.	15 15 0		
1866	2" x 2" x $\frac{1}{2}$ " to $\frac{3}{4}$ " up to 30' long	"		do.	15 15 0		
1867	2 $\frac{1}{4}$ " x 2 $\frac{1}{4}$ " x $\frac{1}{2}$ " to $\frac{3}{4}$ " up to 30' long	"		do.	15 15 0		
1868	2 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " x $\frac{1}{2}$ " to $\frac{3}{4}$ " up to 30' long	"		do.	15 15 0		
1869	3" x 3" x $\frac{1}{2}$ " to $\frac{3}{4}$ " up to 30' long	"		do.	15 15 0		
1870	3 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ " x $\frac{3}{8}$ " to $\frac{1}{2}$ " up to 30' long	"		do.	15 15 0		
1871	4" x 4" x $\frac{1}{2}$ " to $\frac{3}{4}$ " up to 25' long	"		do.	15 15 0		
1872	1 $\frac{1}{2}$ " x 1" x $\frac{1}{2}$ " up to 35' long	"		do.	15 15 0		
1873	3" x 2" x $\frac{1}{2}$ " to $\frac{3}{4}$ " up to 35' long	"		do.	15 15 0		
1874	3" x 2 $\frac{1}{2}$ " x $\frac{1}{2}$ " to $\frac{3}{4}$ " up to 35' long	"		do.	15 15 0		
1875	3 $\frac{1}{2}$ " x 3" x $\frac{3}{8}$ " to $\frac{1}{2}$ " up to 35' long	"		do.	15 15 0		
1876	4" x 3" x $\frac{3}{8}$ " to $\frac{1}{2}$ " up to 35' long	"		do.	15 15 0		
1877	5" x 2 $\frac{1}{2}$ " x $\frac{1}{2}$ " to $\frac{3}{4}$ " up to 25' long	"		do.	15 15 0		
1878	6" x 4" x $\frac{3}{8}$ " up to 30' long	"	do.	..	Nil		
1879	6" x 4" x $\frac{1}{2}$ " up to 30' long	"	do.	..			
Flat, from $\frac{3}{4}$ " to 9" wide, of the following thickness and sizes, and any lengths, as ordered—							
1879A	$\frac{3}{4}$ " x $\frac{1}{2}$ "	Vict.	400 "	15 "	do.	18 0 0	Melbourne Iron & Steel Mills Pty. Ltd.
1880	$\frac{3}{4}$ " x $\frac{7}{16}$ " to $\frac{1}{2}$ ", advancing by $\frac{1}{32}$ "	"		do.	14 17 6		
1881	$\frac{3}{4}$ " x $\frac{1}{2}$ " to $\frac{3}{4}$ "	"		do.	14 17 6		
1882	1" x $\frac{1}{2}$ " to $\frac{3}{4}$ "	"		do.	14 17 6		
1883	1 $\frac{1}{8}$ " x $\frac{1}{2}$ " to $\frac{3}{4}$ "	"		do.	14 17 6		
1884	1 $\frac{1}{4}$ " x $\frac{1}{2}$ " to $\frac{3}{4}$ "	"		do.	14 17 6		
1885	1 $\frac{3}{8}$ " x $\frac{1}{2}$ " to 1"	"		do.	14 17 6		
1886	1 $\frac{1}{2}$ " x $\frac{1}{2}$ " to 1"	"		do.	14 17 6		
1887	1 $\frac{3}{4}$ " x $\frac{1}{2}$ " to 1"	"		do.	14 17 6		
1888	2" x $\frac{1}{2}$ " to 1 $\frac{1}{4}$ "	"		do.	14 17 6		
1889	2 $\frac{1}{4}$ " x $\frac{1}{2}$ " to 1 $\frac{1}{2}$ "	"		do.	14 17 6		
1890	2 $\frac{1}{2}$ " x $\frac{1}{2}$ " to 1 $\frac{1}{2}$ "	"		do.	14 17 6		
1891	3" x $\frac{1}{2}$ " to 2"	"		do.	14 17 6		
1892	3 $\frac{1}{2}$ " x $\frac{1}{2}$ " to 2"	"		do.	14 17 6		
1893	4" x $\frac{1}{2}$ " to 2"	"		do.	14 17 6		
1894	4 $\frac{1}{2}$ " x $\frac{1}{2}$ " to 2"	"		do.	14 17 6		
1895	5" x $\frac{1}{2}$ " to 2 $\frac{1}{2}$ "	"		do.	14 17 6		
1896	5 $\frac{1}{2}$ " x $\frac{1}{2}$ " to 2 $\frac{1}{2}$ "	"		do.	14 17 6		
1897	6" x $\frac{1}{2}$ " to 2"	"		do.	14 17 6		
1898	8" x $\frac{1}{2}$ " to 1"	"		do.	14 17 6		
1899	9" x $\frac{1}{2}$ " to 1"	"		do.	14 17 6		
1900	Flat, 12" x $\frac{1}{2}$ " x 30'	"	3 "	do.	..	Nil	
1901	Flat, Round Edge, to Drawing No. 7645, 5" x 1 $\frac{1}{8}$ ", in lengths of 17' 6"	Vict.	45 "	do.	17 10 0	Melbourne Iron & Steel Mills Pty. Ltd.	
1902	Flat, 7 $\frac{1}{4}$ " x $\frac{3}{8}$ ", maximum length 7'	"	2 "	do.	..	Nil	
1903	Round, in trade lengths— $\frac{1}{4}$ " diameter	"	5 "	do.	..		
1904	$\frac{5}{16}$ "	"		do.	..		
1905	$\frac{3}{8}$ "	"		do.	..		
1906	$\frac{7}{16}$ "	"		do.	..		
1907	Round or Square, as ordered, from $\frac{1}{8}$ " to 3" in thickness or diameter as ordered, advancing by $\frac{1}{16}$ ", any lengths ordered	Vict.	150 "	do.	14 17 6	Melbourne Iron & Steel Mills Pty. Ltd.	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<i>STEEL—continued.</i>						
1908	<i>MILD STEEL—continued.</i> Round or Square, as ordered, $3\frac{1}{4}$ " to 4", in thickness or diameter, as ordered, advancing by $\frac{1}{4}$ ", any lengths ordered—	..	13 tons	ton	..	
	<i>HOOP STEEL (as Specified).</i>					
	Hoop Steel, Black, as may be ordered—					
1909	9 B.G. (0·1398") x 4", $3\frac{1}{2}$ ", 3", $2\frac{1}{2}$ " or $2\frac{1}{4}$ " wide	..	20 tons	do.	..	
1910	9 B.G. (0·1398") x 2", $1\frac{3}{4}$ ", $1\frac{1}{2}$ ", $1\frac{1}{4}$ ", 1", or $\frac{3}{8}$ " wide	..		do.	..	
1911	10 B.G. (0·125") x 4" or 3" wide	..		do.	..	
1912	10 B.G. (0·125") x 2" wide	..		do.	..	
1913	10 B.G. (0·125") x $\frac{5}{8}$ " or $\frac{1}{2}$ " wide	..		do.	..	
1914	11 B.G. (0·111") x $1\frac{3}{4}$ " or $1\frac{1}{2}$ " wide	..		do.	..	
1915	16 B.G. (0·0625") x $1\frac{1}{2}$ ", $1\frac{1}{4}$ " or 1" wide	..	25 "	do.	..	
	Hoop Steel, Galvanized, as may be ordered—					
1916	10 B.G. (0·125") x 3", $2\frac{1}{2}$ ", 2", $1\frac{1}{2}$ ", or $1\frac{1}{4}$ " wide	..		do.	..	
1917	12 B.G. (0·099") x $1\frac{1}{2}$ " wide	..		do.	..	
1918	14 B.G. (0·0785") x $1\frac{1}{4}$ " wide	..		do.	..	
1919	16 B.G. (0·0625") x $2\frac{1}{2}$ " or 2" wide	..		do.	..	
1920	16 B.G. (0·0625") x $1\frac{1}{2}$ ", $1\frac{1}{4}$ ", or 1" wide	..	40 "	do.	..	
1921	18 B.G. (0·0495") x 1" wide	..		do.	..	
1922	20 B.G. (0·0392") x 1" wide	..		do.	..	
1923 to 1926	Nil.					
	Mild Steel Sheets, Black, as may be ordered—					
1927	12' 0" x 5' 0" x No. 9 B.G. (0·1398")	..	40 "	do.	..	Nil
1928	8' 0" x 4' 0" x No. 9 B.G. (0·1398")	..		do.	..	
1929	8' 0" x 4' 0" x No. 10 B.G. (0·125")	..		do.	..	
1930	8' 0" x 4' 0" x No. 11 B.G. (0·1113")	..		do.	..	
1931	8' 0" x 4' 0" x No. 12 B.G. (0·0991")	..		do.	..	
1932	8' 0" x 4' 0" x No. 13 B.G. (0·0882")	..		do.	..	
1933	8' 0" x 4' 0" x No. 14 B.G. (0·0785")	..		do.	..	
1934	8' 0" x 4' 0" x No. 16 B.G. (0·0625")	..		do.	..	
1935	8' 0" or 7' 0" or 6' 0" x 3' 0", or 2' 6" or 2' 0" x No. 9 B.G. (0·1398")	..		do.	..	
1936	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 10 B.G. (0·125")	..		do.	..	
1937	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 11 B.G. (0·1113")	..		do.	..	
1938	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 12 B.G. (0·0991")	..		do.	..	
1939	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 13 B.G. (0·0882")	..		do.	..	
1940	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 14 B.G. (0·0785")	..		do.	..	
1941	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 16 B.G. (0·0625")	..		do.	..	
1942	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 18 B.G. (0·0495")	..		do.	..	
1943	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 20 B.G. (0·0392")	..		do.	..	
1944	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 22 B.G. (0·03125")	..		do.	..	
1945	8' 0" or 7' 0" or 6' 0" x 3' 0" or 2' 6" or 2' 0" x No. 24 B.G. (0·02476")	..		do.	..	
1946	6' 0" x 4' 0" x No. 9 B.G. (0·1398")	..		do.	..	
1947	6' 0" x 4' 0" x No. 10 B.G. (0·125")	..		do.	..	
1948	6' 0" x 4' 0" x No. 13 B.G. (0·0882")	..		do.	..	
1949	6' 0" x 4' 0" x No. 14 B.G. (0·0785")	..		do.	..	
1950	6' 0" x 4' 0" x No. 16 B.G. (0·0625")	..		do.	..	
1951	6' 0" x 4' 0" x No. 18 B.G. (0·0495")	..		do.	..	
1952	6' 0" x 4' 0" x No. 28 B.G. (0·0156")	..		do.	..	
1953 to 1958	Nil					

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
STEEL—continued.						
SPRING STEEL.						
*1959	Steel, Spring, Flat, Rolled Concave, for the purpose of making laminated springs for engines, carriages, and wagons, any lengths and in any of the following sizes as ordered, advancing by $\frac{1}{16}$ "	N.S.W.		ton	*17 2 6 c.i.f.	
	$1" \times \frac{1}{4}"$ to $\frac{1}{8}"$ $2\frac{1}{2}" \times \frac{3}{16}"$ to $1"$ $1\frac{1}{8}" \times \frac{1}{4}"$ to $\frac{1}{8}"$ $2\frac{3}{8}" \times \frac{1}{4}"$ to $1"$ $1\frac{1}{4}" \times \frac{1}{4}"$ to $\frac{3}{8}"$ $2\frac{3}{4}" \times \frac{1}{4}"$ to $1"$ $1\frac{3}{8}" \times \frac{1}{4}"$ to $\frac{3}{8}"$ $2\frac{7}{8}" \times \frac{1}{4}"$ to $1"$ $1\frac{1}{2}" \times \frac{1}{4}"$ to $\frac{3}{8}"$ $3" \times \frac{1}{4}"$ to $1"$ $1\frac{5}{8}" \times \frac{1}{4}"$ to $\frac{3}{8}"$ $3\frac{1}{4}" \times \frac{1}{4}"$ to $1"$ $1\frac{3}{4}" \times \frac{3}{16}"$ to $1"$ $3\frac{1}{2}" \times \frac{3}{16}"$ to $\frac{5}{8}"$ $1\frac{7}{8}" \times \frac{3}{16}"$ to $1"$ $3\frac{3}{4}" \times \frac{3}{16}"$ to $\frac{5}{8}"$ $2" \times \frac{3}{16}"$ to $1"$ $4" \times \frac{5}{16}"$ to $\frac{5}{8}"$ $2\frac{1}{4}" \times \frac{3}{16}"$ to $1"$ $4\frac{1}{4}" \times \frac{3}{16}"$ to $\frac{5}{8}"$ $2\frac{1}{2}" \times \frac{3}{16}"$ to $1"$ $5" \times \frac{5}{16}"$ to $\frac{5}{8}"$ $2\frac{3}{4}" \times \frac{3}{16}"$ to $1"$ $5\frac{1}{2}" \times \frac{5}{16}"$ to $\frac{5}{8}"$		250 tons			McPherson's Pty. Ltd., as agents for Australian Iron & Steel Ltd.
1960	Steel, Spring, Flat, for the purpose of making volute springs for engines, carriages, and wagons, any lengths and in any of the sizes mentioned under Item 1959, advancing by $\frac{1}{16}$ "	"		"	*17 12 6 c.i.f.	
1961	Steel, Spring, Round, in bars of any size shown below, and cut to any lengths ordered— $\frac{3}{8}"$, $\frac{7}{16}"$, $\frac{1}{2}"$, $\frac{9}{16}"$, $\frac{5}{8}"$, $\frac{11}{16}"$, $\frac{3}{4}"$, $\frac{13}{16}"$, $\frac{7}{8}"$, $\frac{15}{16}"$, $1"$, $1\frac{1}{16}"$, $1\frac{1}{8}"$, $1\frac{3}{16}"$, $1\frac{1}{4}"$, $1\frac{5}{16}"$, $1\frac{1}{2}"$, $1\frac{7}{16}"$, $1\frac{9}{16}"$ Steel, Spring, Round, in coils— $\frac{1}{4}"$ diameter 1962 $\frac{5}{8}"$ 1963 $\frac{3}{4}"$ 1964 $\frac{7}{8}"$ 1965 $1"$ Steel, Spring, Volute, in any lengths ordered— 1966 $1\frac{1}{4}" \times 1\frac{1}{2}" \times 1\frac{3}{16}"$ N.S.W. 25 tons do. *17 12 6 c.i.f. McPherson's Pty. Ltd., as agents for Australian Iron & Steel Ltd.		75 "	"	*17 12 6 c.i.f.	
1962	$\frac{1}{4}"$ diameter	"		do.	..	
1963	"	"		do.	..	
1964	"	"		do.	..	
1965	"	"		do.	..	
1966	Steel, Spring, Volute, in any lengths ordered— $1\frac{1}{4}" \times 1\frac{1}{2}" \times 1\frac{3}{16}"$	N.S.W.	25 tons	do.	*17 12 6 c.i.f.	McPherson's Pty. Ltd., as agents for Australian Iron & Steel Ltd.
1967	Steel, Nickel, Round, in trade lengths— $\frac{3}{16}"$ diameter (S.D. 16)	U.K.	1 cwt.	lb.	0 0 5	
1968	$\frac{1}{8}"$	"	1 "	do.	0 0 4 $\frac{1}{2}$	
1969	$\frac{7}{8}"$	"	2 "	do.	0 0 4 $\frac{1}{2}$	
1970	$1\frac{1}{2}"$	"	1 "	do.	0 0 4 $\frac{1}{2}$	
1971	$1\frac{3}{8}"$	"	10 "	do.	..	
1972	$2"$	"	3 "	do.	..	
*1973	Steel, Crinoline, $\frac{3}{4}"$ or $\frac{7}{8}"$ wide, as ordered, any gauge ordered	"	2 "	cwt.	..	
1974 to 1976	Nil.					

SHAFTING.

(1.10.30 to 30.9.31.)

SPECIFICATION FOR BRIGHT SOLID STEEL SHAFTING—Items 1977 to 2011.

Quality of Material.—The Bright Solid Steel Shafting shall be manufactured from steel made from selected material made by an approved process, and shall be solid drawn or rolled and turned, and shall show on analysis not more than 0.05 per cent. of Sulphur or of Phosphorous.

Freedom from Defects.—The Shafting shall be sound, free from cracks, surface flaws and any other defects. It shall be quite straight and finished smooth and bright, in a workmanlike manner.

Tolerance.—The Shafting shall be within the limits of tolerance shown opposite Items 2004 to 2011, in the Schedule. The Shafting for Items 1977 to 2003, shall be true to the specified diameter within the following limits of tolerance :—Plus 0.001", minus 0.004".

Branding.—Each bar shall be legibly marked with the manufacturer's name or trade mark and the cast number.

For small diameter Shafting securely bundled, a metal tag marked with the cast number, will be sufficient.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

SHAFTING—continued.

SPECIFICATION FOR BRIGHT SOLID STEEL SHAFTING—continued.

Tensile Tests.—An Australian Standard test piece "B" taken from the Solid Drawn Shafting shall show a tensile breaking strength of from 32 to 35 tons per square inch with an elongation of not less than 25 per cent. An Australian Standard test piece "B" taken from the Rolled and Turned Shafting shall show a tensile breaking strength of from 28 to 33 tons per square inch with an elongation of not less than 20 per cent. The tensile test pieces shall not be annealed or otherwise subjected to heat treatment unless the material from which they are cut is similarly and simultaneously treated with the material before testing.

Tests.—The Contractor shall supply documentary evidence that each cast in each delivery of Shafting has passed the tensile tests. All other inspections will be conducted by and at the cost of the Corporation at its premises.

Defects showing during Fabrication.—Should any portion of the Shafting show injurious defects in course of fabrication by the Corporation the Contractor shall be notified, and provided the Shafting has been properly treated by the Corporation, the Contractor shall at his own expense, and at the discretion of the Comptroller of Stores, replace or make good the defective Shafting.

Re Items Nos. 2003 to 2011, the rates include wharfage. Arrangements to be made by Officers ordering, for wharfage to be saved, and deducted from Contractor's invoice when time for delivery can be allowed.

As regards Items Nos. 2003 to 2011, a reduction of 10s. per ton will be made if goods are delivered direct ex wharf. In such cases where time for delivery can be allowed an endeavour should be made to obtain advantage of this reduction.

As regards Items Nos. 2004 to 2011, the rates tendered do not include Customs Duty. Statutory declarations that the material is to be used for manufacture of Nuts to be furnished to Contractor for Customs purposes, otherwise duty paid (excluding Primage Duty) to be reimbursed to the Contractor by the Department. Copy of each order placed to be furnished to the Shipping Clerk who will arrange re declaration.

The rates tendered for Items Nos. 2003 to 2011 include Primage Duty current at date of tender.

Sales Tax is not included.

Name of Manufacturer—

Items Nos. 1977 to 2002—H. V. McKay, Sunshine, Victoria.

Items Nos. 2003 to 2011—Bruntons, Musselburgh, Scotland.

Shafting, Bright, Solid Drawn and Turned, Round—						
1977	$\frac{3}{16}$ " diameter	.. .. .	Vict.	1 cwt.	cwt.	1' 18 6
1978	$\frac{1}{2}$"	.. .. .	"	2 "	do.	1' 17 6
1979	$\frac{5}{16}$"	.. .. .	"	2 "	do.	1' 12 3
1980	$\frac{3}{8}$"	.. .. .	"	2 "	do.	1' 8 6
1981	$\frac{7}{16}$"	.. .. .	"	2 "	do.	1' 6 6
1982	$\frac{1}{2}$"	.. .. .	"	4 "	do.	1' 6 6
1983	$\frac{9}{16}$"	.. .. .	"	18 "	do.	1' 4 9
1984	$\frac{5}{8}$"	.. .. .	"	27 "	do.	1' 3 3
1985	$\frac{3}{4}$"	.. .. .	"	9 "	do.	1' 3 6
1986	1"	.. .. .	"	50 "	do.	1' 0 7 $\frac{1}{2}$
1987	1 $\frac{1}{8}$"	.. .. .	"	60 "	do.	1' 0 7 $\frac{1}{2}$
1988	1 $\frac{1}{4}$"	.. .. .	"	50 "	do.	1' 0 7 $\frac{1}{2}$
1989	1 $\frac{3}{8}$"	.. .. .	"	30 "	do.	1' 0 8·4
1990	1 $\frac{7}{16}$"	.. .. .	"	9 "	do.	1' 0 8·4
1991	1 $\frac{1}{2}$"	.. .. .	"	45 "	do.	1' 0 8·4
1992	1 $\frac{3}{4}$"	.. .. .	"	45 "	do.	1' 0 8·4
1993	2"	.. .. .	"	90 "	do.	1' 0 7 $\frac{1}{2}$
1994	2 $\frac{1}{16}$"	.. .. .	"	1 "	do.	1' 0 9
1995	2 $\frac{1}{8}$"	.. .. .	"	1 "	do.	1' 0 9
1996	2 $\frac{1}{4}$"	.. .. .	"	50 "	do.	1' 0 7 $\frac{1}{2}$
1997	2 $\frac{3}{8}$"	.. .. .	"	75 "	do.	1' 0 7 $\frac{1}{2}$
1998	3"	.. .. .	"	20 "	do.	1' 0 8·4
1999	3 $\frac{1}{4}$"	.. .. .	"	6 "	do.	1' 0 8·4
2000	3 $\frac{1}{2}$"	.. .. .	"	5 "	do.	1' 0 8·4
2001	4"	.. .. .	"	1 "	do.	1' 0 8·4
2002	4 $\frac{1}{2}$"	.. .. .	"	1 "	do.	1' 2 9
2003	5"	.. .. .	U.K.	1 "	do.	1' 16 0
Shafting, Bright, Rolled Hexagon, Whitworth Standard—						
2004	$\frac{45}{64}$ " width across flat, for $\frac{3}{8}$ " nuts, max. .710", min. .705"	.. .. .	"	1 "	do.	1' 7 6
2005	$\frac{29}{32}$ " width across flat, for $\frac{1}{2}$ " nuts, max. .920", min. .915"	.. .. .	"	10 "	do.	1' 6 6
2006	1 $\frac{3}{32}$ " width across flat, for $\frac{5}{8}$ " nuts, max. 1·100", min. 1·092"	.. .. .	"	30 "	do.	1' 2 6

Dane, Taylor and Co.
Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<i>SHAPING—continued.</i>						
	Shafting, Bright, Rolled Hexagon, Whitworth Standard— <i>continued.</i>					
2007	1 ¹⁹ / ₆₄ " width across flat, for $\frac{3}{4}$ " nuts, max. 1·300", min. 1·292"	U.K.	13 cwt.	cwt.	1 1 6	Dane, Taylor & Co. Pty. Ltd.
2008	1 ³¹ / ₆₄ " width across flat, for $\frac{7}{8}$ " nuts, max. 1·480", min. 1·472"	"	50 "	do.	1 1 6	
2009	1 ⁴³ / ₆₄ " width across flat, for 1" nuts, max. 1·670", min. 1·662"	"	38 "	do.	1 1 6	
2010	1 ⁵⁵ / ₆₄ " width across flat, for 1 $\frac{1}{4}$ " nuts, max. 1·860", min. 1·850"	"	13 "	do.	1 1 6	
2011	2 ³ / ₆₄ " width across flat, for 1 $\frac{1}{4}$ " nuts, max. 2·050", min. 2·040"	"	50 "	do.	1 1 6	
2012 to 2014	Nil					

TAPS, DIES, AND CHASERS.

1.10.30 to 30.9.31.

The Drawings referred to may be seen on application to Contractors' Room, Room 31, Railway Buildings, Spencer-street.

Where a particular brand or make is specified, tenderers may offer suitable alternatives.

SPECIFICATION FOR TAPS (Items Nos. 2015 to 2095).

Particulars.—The Taps shall be of the very best quality material and workmanship, and shall be free from all injurious defects.

The Taps set opposite Item 2015 to 2050 shall be Standard Whitworth Hand Taps.

The Taps set opposite Items 2051 to 2053B shall be Standard Gas Hand Taps and shall be supplied in sets, each set comprising one Taper and one Plug Tap.

The Taps set opposite Items 2054 to 2076 shall be suitable for use with a National Semi-automatic Nut Tapping Machine, and shall be in accordance with the particulars shown on V.R. Drawing No. 8809.

The Taps set opposite Items 2077 to 2092 shall be Standard Whitworth Taps, right or left handed as ordered, suitable for use with Horizontal Tapping Machines.

The Taps set opposite Items 2093 to 2095 shall be similar to the "B.A." long pattern.

All taps shall be right hand, unless stated otherwise.

Limits of Tolerance.—The Taps shall be true to the specified dimensions within the following limits of tolerance:—

Items 2015 to 2053B—Minus, Nil. Plus, 0·003 inch of the diameter.

Items 2054 to 2076—Not less than 0·002 inch over nor more than 0·006 inch over the specified diameter.

Items 2077 to 2095—Minus, Nil. Plus, 0·003 inch of the diameter.

Pitch—Items 2015 to 2095. No Tap shall be more than 0·0005 inch out of pitch in any inch of length.

Inspections, Tests, and Rejections.—All inspections and tests will be conducted by and at the cost of the Corporation at its premises. Five per cent. of each delivery shall be selected for inspection and tests, and shall be held as representing the lot from which they are selected. In the event of any of the taps selected failing to comply, in any particular with this Specification the lot from which they were selected will be liable to rejection.

SPECIFICATION FOR DIES AND CHASERS.

Particulars.—All material and workmanship of the Dies and Chasers shall be of the very best quality for the purpose, and they shall be free from all injurious defects.

The Hexagon Die Nuts set opposite Items 2097 to 2102 shall be Whitworth Standard, made from best cast steel hardened and tempered ready for use.

The Dies set opposite Items 2135 to 2142 shall be made from high-speed steel, and shall be suitable for efficient use in "Landis" Rotary Dieheads.

The Dies under Items 2143 to 2149 shall be made from high-speed steel, and shall be suitable for efficient use in "Herberts" patent Self-opening Dieheads.

The Machine Chasers set opposite Items 2151 to 2165 shall be made from Carbon Steel, and shall be in accordance with the particulars shown in V.R. Drawing, No. 309X.

Limits of Tolerance.—The Hexagon Nut Dies shall not be over nor more than 0·0015 inch of the specified diameter. No Die or Chaser shall be more than 0·0005 inch out of pitch in any inch of length.

Inspection and Tests.—All inspections and tests shall be conducted by and at the cost of the Corporation at its premises.

Rejection.—Should any Die or Chaser fail to comply in any particular with this Specification, it shall be liable to rejection.

It will be noted that in several instances two tenders have been accepted, and in most the tender of Green Bros. and Miller Pty. Ltd. is the lower.

Orders are to be placed for limited quantities on Green Bros. and Miller to enable their Tools to be tested out under ordinary service conditions. This test will be conducted by the Chief Mechanical Engineer. The Storekeeper, Newport Loco. Workshops will arrange accordingly.

If the tests prove satisfactory, orders are to be placed on this Company wherever its tender is the lower.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
TAPS, DIES, AND CHASERS—continued.						
2015	Taps, Whitworth Thread—					
2015A	$\frac{1}{8}$ " Taper	Vict.	32	each	0 0 6 $\frac{1}{4}$	McPherson's Pty. Ltd.
2016	$\frac{3}{16}$ "	"	120	do.	0 0 6 $\frac{1}{4}$	Green Bros. & Miller Pty. Ltd.
2016A	$\frac{3}{16}$ "	"	120	do.	0 0 6	McPherson's Pty. Ltd.
2017	$\frac{7}{32}$ "	"	3	do.	0 0 6 $\frac{1}{4}$	Green Bros. & Miller Pty. Ltd.
2017A	$\frac{7}{32}$ "	"	3	do.	0 0 6	McPherson's Pty. Ltd.
2018	$\frac{1}{4}$ "	"	200	do.	0 0 6 $\frac{1}{4}$	Green Bros. & Miller Pty. Ltd.
2018A	$\frac{1}{4}$ "	"	200	do.	0 0 6	McPherson's Pty. Ltd.
2019	$\frac{5}{16}$ "	"	80	do.	0 0 9	Green Bros. & Miller Pty. Ltd.
2019A	$\frac{5}{16}$ "	"	80	do.	0 0 8 $\frac{1}{2}$	McPherson's Pty. Ltd.
2020	$\frac{3}{8}$ "	"	30	do.	0 0 11 $\frac{1}{2}$	Green Bros. & Miller Pty. Ltd.
2020A	$\frac{3}{8}$ "	"	30	do.	0 0 10	McPherson's Pty. Ltd.
2021	$\frac{1}{2}$ "	"	35	do.	0 1 4 $\frac{1}{2}$	Green Bros. & Miller Pty. Ltd.
2021A	$\frac{1}{2}$ "	"	35	do.	0 1 4	McPherson's Pty. Ltd.
2022	$\frac{5}{8}$ "	"	30	do.	0 2 1	Green Bros. & Miller Pty. Ltd.
2022A	$\frac{5}{8}$ "	"	30	do.	0 2 0	McPherson's Pty. Ltd.
2023	$\frac{3}{4}$ "	"	15	do.	0 2 9	Green Bros. & Miller Pty. Ltd.
2023A	$\frac{3}{4}$ "	"	15	do.	0 2 8	McPherson's Pty. Ltd.
2024	$\frac{7}{8}$ "	"	8	do.	0 3 3 $\frac{1}{2}$	Green Bros. & Miller Pty. Ltd.
2024A	$\frac{7}{8}$ "	"	8	do.	0 3 2	McPherson's Pty. Ltd.
2025	1"	"	8	do.	0 3 8 $\frac{1}{2}$	Green Bros. & Miller Pty. Ltd.
2025A	1"	"	8	do.	0 3 7	McPherson's Pty. Ltd.
2026	1 $\frac{1}{4}$ "	"	2	do.	0 6 9	Green Bros. & Miller Pty. Ltd.
2026A	1 $\frac{1}{4}$ "	"	2	do.	0 6 9	McPherson's Pty. Ltd.
2027	$\frac{1}{8}$ " Intermediate	"	33	do.	0 0 6 $\frac{1}{4}$	Green Bros. & Miller Pty. Ltd.
2027A	$\frac{1}{8}$ "	"	33	do.	0 0 6	McPherson's Pty. Ltd.
2028	$\frac{3}{16}$ "	"	150	do.	0 0 6 $\frac{1}{4}$	Green Bros. & Miller Pty. Ltd.
2028A	$\frac{3}{16}$ "	"	150	do.	0 0 6	McPherson's Pty. Ltd.
2029	$\frac{7}{32}$ "	"	13	do.	0 0 6 $\frac{1}{4}$	Green Bros. & Miller Pty. Ltd.
2029A	$\frac{7}{32}$ "	"	13	do.	0 0 6	McPherson's Pty. Ltd.
2030	$\frac{1}{4}$ "	"	150	do.	0 0 6 $\frac{1}{2}$	Green Bros. & Miller Pty. Ltd.
2030A	$\frac{1}{4}$ "	"	150	do.	0 0 6	McPherson's Pty. Ltd.
2031	$\frac{5}{16}$ "	"	80	do.	0 0 9	Green Bros. & Miller Pty. Ltd.
2031A	$\frac{5}{16}$ "	"	80	do.	0 0 8 $\frac{1}{2}$	McPherson's Pty. Ltd.
2032	$\frac{3}{8}$ "	"	15	do.	0 0 11 $\frac{1}{2}$	Green Bros. & Miller Pty. Ltd.
2032A	$\frac{3}{8}$ "	"	15	do.	0 0 10	McPherson's Pty. Ltd.
2033	$\frac{1}{2}$ "	"	15	do.	0 1 4 $\frac{1}{2}$	Green Bros. & Miller Pty. Ltd.
2033A	$\frac{1}{2}$ "	"	15	do.	0 1 4	McPherson's Pty. Ltd.
2034	$\frac{5}{8}$ "	"	30	do.	0 2 1	Green Bros. & Miller Pty. Ltd.
2034A	$\frac{5}{8}$ "	"	30	do.	0 2 0	McPherson's Pty. Ltd.
2035	$\frac{3}{4}$ "	"	20	do.	0 2 9	Green Bros. & Miller Pty. Ltd.
2035A	$\frac{3}{4}$ "	"	20	do.	0 2 8	McPherson's Pty. Ltd.
2036	1"	"	8	do.	0 3 3 $\frac{1}{2}$	Green Bros. & Miller Pty. Ltd.
2036A	1"	"	8	do.	0 3 2	McPherson's Pty. Ltd.
2037	1"	"	10	do.	0 3 8 $\frac{1}{2}$	Green Bros. & Miller Pty. Ltd.
2037A	1"	"	10	do.	0 3 7	McPherson's Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
TAPS, DIES, AND CHASERS—continued.						
Taps, Whitworth Thread—continued.						
2038	1 1/4" Intermediate	Vict.	3	each	0 6 9	McPherson's Pty. Ltd.
2038A	1 1/4" "	"		do.	0 6 9	Green Bros. & Miller Pty. Ltd.
2039	1" Plug	"	25	do.	0 0 6 1/2	McPherson's Pty. Ltd.
2039A	1" "	"		do.	0 0 6	Green Bros. & Miller Pty. Ltd.
2040	3/16" "	"	150	do.	0 0 6 1/2	McPherson's Pty. Ltd. *
2040A	3/16" "	"		do.	0 0 6	Green Bros. & Miller Pty. Ltd.
2041	7/32" "	"	1	do.	0 0 6 1/2	McPherson's Pty. Ltd.
2041A	7/32" "	"		do.	0 0 6	Green Bros. & Miller Pty. Ltd.
2042	1/4" "	"	175	do.	0 0 6 1/2	McPherson's Pty. Ltd.
2042A	1/4" "	"		do.	0 0 6	Green Bros. & Miller Pty. Ltd.
2043	5/16" "	"	88	do.	0 0 9	McPherson's Pty. Ltd.
2043A	5/16" "	"		do.	0 0 8 1/2	Green Bros. & Miller Pty. Ltd.
2044	3/8" "	"	35	do.	0 0 11 1/2	McPherson's Pty. Ltd.
2044A	3/8" "	"		do.	0 0 10	Green Bros. & Miller Pty. Ltd.
2045	1/2" "	"	38	do.	0 1 4 1/2	McPherson's Pty. Ltd.
2045A	1/2" "	"		do.	0 1 4	Green Bros. & Miller Pty. Ltd.
2046	5/8" "	"	30	do.	0 2 1	McPherson's Pty. Ltd.
2046A	5/8" "	"		do.	0 2 0	Green Bros. & Miller Pty. Ltd.
2047	3/4" "	"	18	do.	0 2 9	McPherson's Pty. Ltd.
2047A	3/4" "	"		do.	0 2 6	Green Bros. & Miller Pty. Ltd.
2048	7/8" "	"	10	do.	0 3 3 1/2	McPherson's Pty. Ltd.
2048A	7/8" "	"		do.	0 3 2	Green Bros. & Miller Pty. Ltd.
2049	1" "	"	13	do.	0 3 8 1/2	McPherson's Pty. Ltd.
2049A	1" "	"		do.	0 3 7	Green Bros. & Miller Pty. Ltd.
2050	1 1/4" "	"	3	do.	0 6 9	McPherson's Pty. Ltd.
2050A	1 1/4" "	"		do.	0 6 9	Green Bros. & Miller Pty. Ltd.
Taps, Hand-working—						
2051	1/8" Gas Thread, two to set	U.K.	30 sets	set	0 2 3	James Walker
2051A	1/8" "	"		do.	0 2 8 1/2	
2051B	1/8" "	"	8 "	do.	0 3 2	
2052	1/4" "	"		do.	0 4 3	
2052A	1/4" "	"	1 "	do.	0 5 10	
2052B	1/2" "	"		do.	0 7 10	
2053	1 1/4" "	"	1 "	do.	0 12 5	
2053A	1 1/2" "	"		do.	0 14 0	
2053B	1 3/4" "	"		do.	1 2 3	
Taps, for "National" Nut-tapping Machines, to Drawing No. 8809, Whitworth Thread—						
2054	1/4"	Vict.	3	each	0 2 6	Patience & Nicholson Ltd.
2054A	1/4"	"		do.	0 2 6	Green Bros. & Miller Pty. Ltd.
2055	5/16"	"		do.	0 2 6	Patience & Nicholson Ltd.
2055A	5/16"	"		do.	0 2 6	Green Bros. & Miller Pty. Ltd.
2056	3/8"	"		do.	0 2 10	Patience & Nicholson Ltd.
2056A	3/8"	"		do.	0 2 9	Green Bros. & Miller Pty. Ltd.
2057	1/2"	"		do.	0 5 0	Patience & Nicholson Ltd.
2057A	1/2"	"		do.	0 5 0	Green Bros. & Miller Pty. Ltd.

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.		
					£ s. d.			
TAPS, DIES, AND CHASERS—continued.								
Taps, for "National" Nut-tapping Machines—continued.								
2058	5/8"	Vict.	60	each	0 5 8	Patience & Nicholson Ltd.		
2058A	5/8"	"		do.	0 5 6	Green Bros. & Miller Pty. Ltd.		
2059	3/4"	"		do.	0 6 2	Patience & Nicholson Ltd.		
2059A	3/4"	"		do.	0 6 3	Green Bros. & Miller Pty. Ltd.		
2060	7/8"	"		do.	0 8 6	Patience & Nicholson Ltd.		
2060A	7/8"	"		do.	0 8 6	Green Bros. & Miller Pty. Ltd.		
2061	1"	"	50	do.	0 10 6	Patience & Nicholson Ltd.		
2061A	1"	"		do.	0 10 3	Green Bros. & Miller Pty. Ltd.		
2062	1 1/8"	"		do.	0 13 0	Patience & Nicholson Ltd.		
2062A	1 1/8"	"		do.	0 13 3	Green Bros. & Miller Pty. Ltd.		
2063	1 1/4"	"		do.	0 16 4	Patience & Nicholson Ltd.		
2063A	1 1/4"	"		do.	0 16 6	Green Bros. & Miller Pty. Ltd.		
2064	1 3/8"	"	3	do.	0 19 6	Patience & Nicholson Ltd.		
2064A	1 3/8"	"		do.	0 19 3	Green Bros. & Miller Pty. Ltd.		
2065	1 1/2"	"		do.	1 1 6	Patience & Nicholson Ltd.		
2065A	1 1/2"	"		do.	1 1 6	Green Bros. & Miller Pty. Ltd.		
2066	1/2", Gas Thread	"		do.	0 8 6	Patience & Nicholson Ltd.		
2066A	1/2"	"		do.	0 9 0	Green Bros. & Miller Pty. Ltd.		
2067	3/4"	"	3	do.	0 10 6	Patience & Nicholson Ltd.		
2067A	3/4"	"		do.	0 10 9	Green Bros. & Miller Pty. Ltd.		
2068	1"	"		do.	0 16 6	Patience & Nicholson Ltd.		
2068A	1"	"		do.	0 16 3	Green Bros. & Miller Pty. Ltd.		
2069	1", 11 threads per inch	"		do.	0 10 6	Patience & Nicholson Ltd.		
2070	1 1/8", 11	"		do.	0 13 0			
2071	1 3/16", 11	"	35	do.	0 15 0			
2072	1 1/4", 11	"		do.	0 16 6			
2073	1 3/8", 11	"		do.	0 19 0			
2074	1 1/2", 11	"		6	do.		1 1 6	
2075	3/4", 16	"	3	do.	0 7 6	Patience & Nicholson Ltd.		
2076	1", 16	"		do.	0 10 6			
Taps, Horizontal, Tapping Machine, Right-hand—								
2077	1 1/8"	"		do.	0 10 6		Patience & Nicholson Ltd.	
2077A	1 1/8"	"		do.	0 10 6		Green Bros. & Miller Pty. Ltd.	
2078	1 1/4"	"		do.	0 15 6		Patience & Nicholson Ltd.	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
TAPS, DIES, AND CHASERS—continued.						
	Taps, Horizontal, Tapping Machine, Right-hand—continued.					
2078A	1½"	Vict.		each	0 10 6	Green Bros. & Miller Pty. Ltd.
2079	1½"	"		do.	1 1 0	Patience & Nicholson Ltd.
2079A	1½"	"		do.	0 19 3	Green Bros. & Miller Pty. Ltd.
2080	1½"	"		do.	1 12 6	Patience & Nicholson Ltd.
2080A	1½"	"	3	do.	1 9 6	Green Bros. & Miller Pty. Ltd.
2081	2"	"		do.	2 0 0	Patience & Nicholson Ltd.
2081A	2"	"		do.	1 18 0	Green Bros. & Miller Pty. Ltd.
2082	2¼"	"		do.	2 8 0	Patience & Nicholson Ltd.
2082A	2¼"	"		do.	2 4 0	Green Bros. & Miller Pty. Ltd.
2083	2¾"	"		do.	3 0 0	Patience & Nicholson Ltd.
2083A	2¾"	"		do.	2 13 0	Green Bros. & Miller Pty. Ltd.
2084	2½"	"		do.	3 10 0	Patience & Nicholson Ltd.
2084A	2½"	"		do.	3 2 0	Green Bros. & Miller Pty. Ltd.
	Taps, Horizontal, Tapping Machine, Left-hand—					
2085	1½"	"		do.	0 12 6	Patience & Nicholson Ltd.
2085A	1½"	"		do.	0 12 0	Green Bros. & Miller Pty. Ltd.
2086	1¼"	"		do.	0 17 6	Patience & Nicholson Ltd.
2086A	1¼"	"		do.	0 16 6	Green Bros. & Miller Pty. Ltd.
2087	1½"	"		do.	1 7 0	Patience & Nicholson Ltd.
2087A	1½"	"		do.	1 7 6	Green Bros. & Miller Pty. Ltd.
2088	1¾"	"		do.	1 18 6	Patience & Nicholson Ltd.
2088A	1¾"	"	3	do.	1 15 6	Green Bros. & Miller Pty. Ltd.
2089	2"	"		do.	2 6 0	Patience & Nicholson Ltd.
2089A	2"	"		do.	2 4 0	Green Bros. & Miller Pty. Ltd.
2090	2¼"	"		do.	2 17 6	Patience & Nicholson Ltd.
2090A	2¼"	"		do.	2 14 6	Green Bros. & Miller Pty. Ltd.
2091	2¾"	"		do.	3 7 6	Patience & Nicholson Ltd.
2091A	2¾"	"		do.	3 2 6	Green Bros. & Miller Pty. Ltd.
2092	2½"	"		do.	3 15 0	Patience & Nicholson Ltd.
2092A	2½"	"		do.	3 10 0	Green Bros. & Miller Pty. Ltd.
2093	Taps, 2 B.A., .. .. .	..		do.	..	} Nil.
2094	Taps, 4 B.A., .. .. .	..		do.	..	
2095	Taps, 8 B.A., "Lehmann Archer"	U.K.	2	do.	0 0 6	James Walker
2096	Dies, 6 B.A.	Vict.	5	do.	0 0 7½	McPherson's Pty. Ltd

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
TAPS, DIES, AND CHASERS—continued.						
Dies, Nut, Hexagon, Whitworth Thread—						
2097	3/8"	U.K.	3	each	0 2 3	James Walker
2098	1/2"	"	5	do.	0 2 7	
2099	3/4"	"	12	do.	0 3 4	
2100	1"	"	12	do.	0 3 10	
2101	1 1/8"	"	15	do.	0 4 10	
2102	1 1/4"	"	12	do.	0 5 10	
Dies, Adjustable, 2 3/16" diameter, Whitworth Thread—						
2103	3/16"	Vict.	1	do.	0 8 3	McPherson's Pty. Ltd.
2103A	1/8"	"		do.	0 7 9	Green Bros. & Miller Pty. Ltd.
2104	1/4"	"	1	do.	0 8 3	McPherson's Pty. Ltd.
2104A	1/2"	"		do.	0 7 9	Green Bros. & Miller Pty. Ltd.
2105	5/16"	"	5	do.	0 8 3	McPherson's Pty. Ltd.
2105A	3/8"	"		do.	0 7 9	Green Bros. & Miller Pty. Ltd.
2106	3/8"	"	5	do.	0 8 3	McPherson's Pty. Ltd.
2106A	1/2"	"		do.	0 7 9	Green Bros. & Miller Pty. Ltd.
2107	1/2"	"	3	do.	0 8 10	McPherson's Pty. Ltd.
2107A	5/8"	"		do.	0 8 6	Green Bros. & Miller Pty. Ltd.
2108	5/8"	"	5	do.	0 10 4	McPherson's Pty. Ltd.
2108A	3/4"	"		do.	0 9 6	Green Bros. & Miller Pty. Ltd.
2109	3/4"	"	3	do.	0 10 9	McPherson's Pty. Ltd.
2109A	7/8"	"		do.	0 10 0	Green Bros. & Miller Pty. Ltd.
2110	7/8"	"	3	do.	0 12 10	McPherson's Pty. Ltd.
2110A	1"	"		do.	0 12 0	Green Bros. & Miller Pty. Ltd.
2111	1"	"	1	do.	0 14 4	McPherson's Pty. Ltd.
2111A	1 1/8"	"		do.	0 12 9	Green Bros. & Miller Pty. Ltd.
Dies, Adjustable, 2 1/4" diameter, Whitworth Thread—						
2112	1/4"	"	5	do.	0 9 0	McPherson's Pty. Ltd.
2112A	1/2"	"		do.	0 8 6	Green Bros. & Miller Pty. Ltd.
2113	5/16"	"	1	do.	0 9 0	McPherson's Pty. Ltd.
2113A	3/8"	"		do.	0 8 6	Green Bros. & Miller Pty. Ltd.
2114	3/8"	"	1	do.	0 9 0	McPherson's Pty. Ltd.
2114A	1/2"	"		do.	0 8 6	Green Bros. & Miller Pty. Ltd.
2115	1/2"	"	3	do.	0 9 6	McPherson's Pty. Ltd.
2115A	5/8"	"		do.	0 8 6	Green Bros. & Miller Pty. Ltd.
2116	5/8"	"	2	do.	0 10 9	McPherson's Pty. Ltd.
2116A	3/4"	"		do.	0 10 6	Green Bros. & Miller Pty. Ltd.
2117	3/4"	"	3	do.	0 11 3	McPherson's Pty. Ltd.
2117A	7/8"	"		do.	0 12 6	Green Bros. & Miller Pty. Ltd.
2118	7/8"	"	1	do.	0 13 6	McPherson's Pty. Ltd.
2118A	1"	"		do.	0 12 6	Green Bros. & Miller Pty. Ltd.
2119	1"	"	1	do.	0 15 0	McPherson's Pty. Ltd.
2119A	1 1/8"	"		do.	0 14 6	Green Bros. Pty. & Miller Ltd.
2120	1 1/4"	"	1	do.	0 17 0	McPherson's Pty. Ltd.
2120A	1 1/2"	"		do.	1 1 0	Green Bros. & Miller Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
TAPS, DIES, AND CHASERS—continued.						
2121	Dies, Hand, Lightning, Whitworth Thread— $\frac{3}{16}$ " x $1\frac{1}{2}$ " diameter	Vict.	5	each	0 5 8	McPherson's Pty. Ltd.
2121A	$\frac{3}{16}$ " x $1\frac{1}{2}$ "	"		do.	0 5 6	Green Bros. & Miller Pty. Ltd.
2122	$\frac{1}{4}$ " x $1\frac{1}{2}$ "	"		do.	0 5 8	McPherson's Pty. Ltd.
2122A	$\frac{1}{4}$ " x $1\frac{1}{2}$ "	"		do.	0 5 6	Green Bros. & Miller Pty. Ltd.
2123	$\frac{5}{16}$ " x $1\frac{1}{2}$ "	"		do.	0 5 8	McPherson's Pty. Ltd.
2123A	$\frac{5}{16}$ " x $1\frac{1}{2}$ "	"		do.	0 5 6	Green Bros. & Miller Pty. Ltd.
2124	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	"		do.	0 6 2	McPherson's Pty. Ltd.
2124A	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	"		do.	0 5 6	Green Bros. & Miller Pty. Ltd.
2125	$\frac{7}{16}$ " x $1\frac{11}{16}$ "	"		do.	0 7 0	McPherson's Pty. Ltd.
2125A	$\frac{7}{16}$ " x $1\frac{11}{16}$ "	"		do.	0 6 6	Green Bros. & Miller Pty. Ltd.
2126	$\frac{1}{2}$ " x $1\frac{11}{16}$ "	"		do.	0 7 0	McPherson's Pty. Ltd.
2126A	$\frac{1}{2}$ " x $1\frac{11}{16}$ "	"		do.	0 6 6	Green Bros. & Miller Pty. Ltd.
2127	$\frac{3}{4}$ " x $2\frac{3}{16}$ "	"		do.	0 9 11	McPherson's Pty. Ltd.
2127A	$\frac{3}{4}$ " x $2\frac{3}{16}$ "	"		do.	0 10 0	Green Bros. & Miller Pty. Ltd.
2128	$\frac{7}{8}$ " x $2\frac{3}{16}$ "	"		do.	0 12 5	McPherson's Pty. Ltd.
2128A	$\frac{7}{8}$ " x $2\frac{3}{16}$ "	"		do.	0 12 0	Green Bros. & Miller Pty. Ltd.
2129	1" x $2\frac{3}{16}$ "	"		do.	0 13 10	McPherson's Pty. Ltd.
2129A	1" x $2\frac{3}{16}$ "	"		do.	0 12 9	Green Bros. & Miller Pty. Ltd.
2130	Dies, Hand, Lightning, Gas Thread— $\frac{1}{4}$ " x $1\frac{1}{16}$ " diameter	"	4	do.	0 7 0	McPherson's Pty. Ltd.
2130A	$\frac{1}{4}$ " x $1\frac{1}{16}$ "	"		do.	0 7 0	Green Bros. & Miller Pty. Ltd.
2131	$\frac{3}{8}$ " x $1\frac{15}{16}$ "	"		do.	0 8 10	McPherson's Pty. Ltd.
2131A	$\frac{3}{8}$ " x $1\frac{15}{16}$ "	"		do.	0 8 6	Green Bros. & Miller Pty. Ltd.
2132	$\frac{1}{2}$ " x $2\frac{3}{16}$ "	"		do.	0 10 0	McPherson's Pty. Ltd.
2132A	$\frac{1}{2}$ " x $2\frac{3}{16}$ "	"		do.	0 9 9	Green Bros. & Miller Pty. Ltd.
2133	$\frac{3}{4}$ " x $2\frac{3}{4}$ "	"		do.	0 12 9	McPherson's Pty. Ltd.
2133A	$\frac{3}{4}$ " x $2\frac{3}{4}$ "	"		do.	0 12 9	Green Bros. & Miller Pty. Ltd.
2134	1" x $2\frac{3}{4}$ "	"		do.	0 17 0	McPherson's Pty. Ltd.
2134A	1" x $2\frac{3}{4}$ "	"		do.	0 14 0	Green Bros. & Miller Pty. Ltd.
2135	Dies, "Landis," Style "F," Whitworth Thread, in sets of four— $\frac{1}{2}$ " to $\frac{5}{8}$ ", as ordered	"	15 sets	set	..	Nil
2136	$\frac{3}{4}$ " to $1\frac{1}{2}$ ", as ordered	"	13 "	do.	..	
2137	Dies, "Landis," Style "F," for 3" Diehead Whitworth Thread, in sets of four— $1\frac{3}{4}$ "	Vict.	2 "	do.	3 16 0	Sutton Tool & Gauge Mfg. Co.
2138	$2\frac{1}{4}$ "	"	2 "	do.	..	Nil
2139	Dies, "Landis," Style "F," for $\frac{1}{2}$ " Diehead Whitworth Thread, in sets of four—	"	6 "	do.	..	
2140	Dies, "Landis," Pipe, 14 thread, Whitworth, for $1\frac{1}{2}$ " Diehead, in sets of four	"	..	do.	..	McPherson's Pty. Ltd.
2141	Dies, "Landis," Pipe, 11 threads, Whitworth for 1" to 2" Pipes, in sets of four	Vict.	3 "	do.	2 8 6	
2142	Dies, "Landis," Pipe, 11 threads, Whitworth for 2 $\frac{1}{2}$ " to 3" Pipes, in sets of four	"	..	do.	3 19 0	Sutton Tool and Gauge Mfg. Co.
2143	Dies, "Herbert," to suit Herbert's Die Heads—in sets of 4 1, style "C," sizes $\frac{3}{16}$ " to 1", for 1" Die Head, as ordered, Whitworth Thread	"	18 "	do.	1 3 0	Patience & Nicholson Ltd.
2144	$1\frac{1}{4}$ ", style "C," sizes $\frac{7}{16}$ " to $1\frac{1}{4}$ ", as ordered, Whitworth Thread	"	18 "	do.	1 8 0	
2145	2", style "C," sizes $\frac{3}{4}$ " to 2", as ordered, Whitworth Thread	"	2 "	do.	2 10 0	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
TAPS, DIES, AND CHASERS—continued.						
	Dies, "Herbert," to suit Herbert's Die Heads—in sets of 4— <i>continued.</i>					
2146	1", style "C," sizes $\frac{3}{8}$ ", $\frac{7}{8}$ ", 1", and $1\frac{1}{4}$ ", as ordered, 11 threads per inch	Vict.	3 sets	set	1 3 0	Patience & Nicholson Ltd.
2147	$1\frac{1}{4}$ ", style "C," sizes 1", $1\frac{1}{8}$ " and $1\frac{1}{4}$ ", as ordered, 11 threads per inch	"	50 "	do.	1 7 6	
2148	$1\frac{1}{2}$ ", style "C," sizes $1\frac{1}{8}$ ", $1\frac{1}{4}$ ", $1\frac{3}{8}$ ", and $1\frac{1}{2}$ ", as ordered, 11 threads per inch	"	12 "	do.	2 0 0	
2149	2", style "C," sizes $1\frac{1}{8}$ ", $1\frac{1}{4}$ ", $1\frac{3}{8}$ ", $1\frac{1}{2}$ ", and $1\frac{5}{8}$ ", as ordered, 11 threads per inch	"	3 "	do.	2 10 0	
2150	Nil.					
	Chasers, Machine, Inside, to Drawing No. 309N—					
2151	5 to 9 threads per inch, as ordered ..	"	5	each	0 8 6	Patience & Nicholson Ltd.
2151A	5 to 9 " " " " ..	"		do.	0 8 6	Green Bros. & Miller Pty. Ltd.
2152	10 to 14 " " " " ..	"	10	do.	0 8 0	Patience & Nicholson Ltd.
2152A	10 to 14 " " " " ..	"		do.	0 7 9	Green Bros. & Miller Pty. Ltd.
2153	16 to 18 " " " " ..	"	3	do.	0 7 6	Patience & Nicholson Ltd.
2153A	16 to 18 " " " " ..	"		do.	0 6 6	Green Bros. & Miller Pty. Ltd.
2154	19 to 26 " " " " ..	"	5	do.	0 7 0	Patience & Nicholson Ltd.
2154A	19 to 26 " " " " ..	"		do.	0 6 6	Green Bros. & Miller Pty. Ltd.
2155	28 to 30 " " " " ..	"	3	do.	0 7 0	Patience & Nicholson Ltd.
2155A	28 to 30 " " " " ..	"		do.	0 6 6	Green Bros. & Miller Pty. Ltd.
2156	Nil.					
	Chasers, Machine, Outside, to Drawing No. 309N—					
2157	5 to 9 threads per inch, as ordered ..	"	3	do.	0 4 6	Patience & Nicholson Ltd.
2157A	5 to 9 " " " " ..	"		do.	0 4 3	Green Bros. & Miller Pty. Ltd.
2158	10 to 14 " " " " ..	"	30	do.	0 4 0	Patience & Nicholson Ltd.
2158A	10 to 14 " " " " ..	"		do.	0 4 0	Green Bros. & Miller Pty. Ltd.
2159	16 to 18 " " " " ..	"	10	do.	0 4 0	Patience & Nicholson Ltd.
2159A	16 to 18 " " " " ..	"		do.	0 4 0	Green Bros. & Miller Pty. Ltd.
2160	19 to 26 " " " " ..	"	3	do.	0 4 0	Patience & Nicholson Ltd.
2160A	19 to 26 " " " " ..	"		do.	0 4 0	Green Bros. & Miller Pty. Ltd.
2161	28 to 30 " " " " ..	"	3	do.	0 4 0	Patience & Nicholson Ltd.
2161A	28 to 30 " " " " ..	"		do.	0 4 0	Green Bros. & Miller Pty. Ltd.
	Chasers, Machine, Outside, 4" long—					
2162	11 threads per inch ..	"	10	do.	0 3 2	Patience & Nicholson Ltd.
2163	12 " " " " ..	"		do.	0 3 2	
2164	14 " " " " ..	"		do.	0 3 2	
2165	16 " " " " ..	"		do.	0 3 2	
2166 to 2170	Nil					

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

ELECTRODES AND WELDING WIRE.

(1.10.1930 to 30.9.1931.)

The Electrodes and Welding Wire shall be capable of depositing the material specified in connexion with welding. The material shall be made by an approved process, and shall be of uniform homogeneous structure, free from segregations, oxides, pipes, seams, &c., and shall comply with such tests as the Department may deem necessary to determine suitability.

The Electrodes shall be 18 inches long. The covering shall not easily chip or break off, and shall not be affected by atmospheric conditions.

The Welding Wire shall be free from rust, oil, and grease.

*As regards Items Nos. 2186, 2187, 2190, and 2191, in the event of the manufacturer's current price for wire falling or rising during the currency of the contract, such fall or rise, as the case may be, shall be applied to the undelivered quantity as at date of such alteration in price.

	Electrodes, Mild Steel, suitable for ordinary general work, "E.M.F."—					
†2171	No. 4 S.W.G.	Vict.	7,500 feet	100 ft.	0 15 9	} Edmunds Bros. & Co.
†2172	No. 6 S.W.G.	"	10,000 "	do.	0 12 10	
†2173	No. 8 S.W.G.	"	25,000 "	do.	0 10 5	
†2174	No. 10 S.W.G.	"	67,500 "	do.	0 8 0	
	Electrodes, Mild Steel, suitable for sheet metal work, "E.M.F."—					
†2175	No. 12 S.W.G.	"	4,500 "	do.	0 7 0	} Edmunds Bros. & Co.
†2176	No. 14 S.W.G.	"	3,900 "	do.	0 7 0	
	Electrodes, Mild Steel, suitable for special work where strength and reliability are important, "Quasi-Arc"—					
†2177	No. 8 S.W.G.	"	4,000 "	do.	0 12 9	} Robert Bryce & Co. Pty. Ltd.
†2178	No. 10 S.W.G.	"	8,500 "	do.	0 10 6	
	Electrodes, Mild Steel, suitable for overhead work, "E.M.F."—					
†2179	No. 8 S.W.G.	"	2,000 "	do.	0 12 8	} Edmunds Bros. & Co.
†2180	No. 10 S.W.G.	"	3,150 "	do.	0 10 10	
	Electrodes, Mild Steel, suitable for work required to be forged hot—					
†2181	No. 8 S.W.G. "E.M.F."	"	} 3,500 "	do.	0 12 8	Edmunds Bros. & Co.
†2181A	No. 8 S.W.G. "Quasi-Arc"	"		do.	0 16 0	Robert Bryce & Co. Pty. Ltd.
†2182	No. 10 S.W.G. "E.M.F."	"	} 1,500 "	do.	0 10 10	Edmunds Bros. & Co.
†2182A	No. 10 S.W.G. "Quasi-Arc"	"		do.	0 13 0	Robert Bryce & Co. Pty. Ltd.
	Electrodes, Steel, to deposit 0.5 per cent. Carbon Steel "Quasi-Arc"—					
†2183	No. 6 S.W.G.	"	12,000 "	do.	1 3 0	} Robert Bryce & Co. Pty. Ltd.
†2184	No. 8 S.W.G.	"	8,500 "	do.	0 19 0	
†2185	No. 10 S.W.G.	"	4,500 "	do.	0 14 9	
	Wire, Electric Welding, in about 1-cwt. coils, "Rylands Bros."—					
†2186	$\frac{3}{16}$ " diameter	N.S.W.	40 cwt.	cwt.	*1 5 6	} Briscoe & Co. Ltd.
†2187	$\frac{1}{8}$ "	"	25 "	do.	*1 6 6	
	Wire, Iron, Welding, in approx. 1 cwt. coils—					
†2188	10 gauge annealed	"	9 "	do.	1 6 10	} Australian Oxygen and Industrial Gases Pty. Ltd.
†2189	$\frac{1}{16}$ "	"	1 "	do.	1 10 0	
†2190	$\frac{3}{16}$ "	"	35 "	do.	*1 6 0	} Briscoe & Co. Ltd.
†2191	$\frac{1}{4}$ "	"	20 "	do.	*1 6 0	
	Wire, Welding, Bronze—					
†2192	$\frac{1}{8}$ " "Austral" Manganese Bronze	"	1 "	do.	12 0 0	} Australian Oxygen and Industrial Gases Pty. Ltd.
†2193	$\frac{3}{16}$ "	"	1 "	do.	10 0 0	
†2194	$\frac{1}{4}$ "	"	4 "	do.	10 0 0	
2195	} Nil.					
2196						

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

CORKS AND BOTTLING WAX.

(1.10.1930 to 30.9.1931.)

†2197	Wax, Bottling, in blocks, any colours ordered	..	300 lb.	lb.	..	Nil
	Corks—					
*2198	Axle-box, large quart and extra tapers ..	Vict.	1,500 gross	gross	0 1 10	H. A. Waxman and Co.
*2199	„ small ..	„	40 „	do.	0 1 4	
*2200	Bungs, 1½" ..	„	1 „	do.	0 8 0	Sutherland and Co.
*2201	„ 1½" Tap Ends ..	„	19 „	do.	0 4 6	
*2202	„ 1½" „ ..	„	1 „	do.	0 4 3	H. A. Waxman and Co.
*2203	Phial ..	„	3 „	do.	0 1 1	
*2204	Roof Lamp, 1½" Tap Ends ..	„	2 „	do.	0 2 6	Sutherland and Co.
2205 to 2207	Nil.					

SLATES.

(1.10.1930 to 30.9.1931.)

The Slates shall be delivered, properly loaded, stacked, and packed in railway trucks with straw or other suitable material by and at the cost of the Contractor, at Spencer-street Railway Station, such loading, &c., to be to the satisfaction of the Receiving Officer.

†2208	Slates, Roofing, 24" x 12" }	" A.S.Q." f.o.r. { S. Aust.	2,500	100	3 7 6	Australian Slate Quarries Ltd.
†2209	„ „ 20" x 10" }	Melbourne { „	2,500	do.	2 5 5	

WATER TROUGHS, ETC.

(1.10.1930 to 30.9.1931.)

Item 2210.—The Cattle Trough shall be 12 feet long, with a cross-section of 24 in. x 15 in. (internal), shall be of concrete, well reinforced, and with surfaces smoothly rendered, and provided with supports so that the top of the trough will stand 18 inches above the ground level. Provision shall be made at one end of the trough for a ½-in. connexion for a ball cock. A suitable steel hood and padlock shall be provided to protect the ball cock. No crating required.

Item 2211.—The Pig Trough shall be 8 feet long, with a cross-section of approximately 15 in. x 8 in. (internal), shall be of concrete, well reinforced, and with surfaces smoothly rendered, and provided with a suitable base so that the bottom of the trough will rest flat on the ground. Provision shall be made at one end of the trough for a ½-in. connexion for a ball cock. A suitable steel hood and padlock shall be provided to protect the ball cock. The rate tendered shall include crating suitable for transport by rail.

Item 2212.—The Wash Trough shall be in two divisions, shall be of reinforced cement 1 inch thick, shall be 4 ft. 3 in. long, 14 inches deep, 1 ft. 2 in. wide at bottom and 1 ft. 9 in. wide at top, and shall be fitted with brass plugs and washers (M.M.B.W.) complete to each division with wastes combined to form a single outlet. The rate tendered for this item shall include 3 in. x 1 in. hardwood crates, which shall remain the property of the Corporation.

Item 2213.—The Concrete Copper Stands shall be constructed to take a 14-gallon boiler, and shall be fitted with fire grate door and 9 feet of concrete flue piping. All crating necessary for the safe transport by rail shall be provided by and at the expense of the Contractor.

Item No. 2210 will be delivered loaded into trucks at Springvale Railway Station.

Items No. 2211 will be delivered loaded into trucks at Hawthorn Railway Station.

	Trough, reinforced concrete—					
2210	12' long, for Cattle (as specified) ..	Vict.	15	each	6 10 0	Roca Ltd.
2211	8' long, for Pigs (as specified) ..	„	3	do.	3 0 0	G. Simpson and Son
2212	Trough, Wash, reinforced cement (as specified) ..	„	45	do.	1 5 0	Workshops Manager, Spotswood
2213	Concrete Copper Stands (as specified) ..	„	15	do.	3 10 0	

STEEL CASTINGS,

Period 1/10/1930 to 30/9/1931.

When specially ordered the Castings shall be run with heads or runners of such weight as may be ordered, and no extra charge will be allowed for same, and the Contractor will be required to remove the head or runner from the Casting where possible in the opinion of the Comptroller of Stores, and charge the Casting at the net weight only, trimmed and clean. In cases where it is necessary to cut off the head in a lathe or machine, such head will be cut off by the Corporation, and, excepting those for the State Coal Mine at Wonthaggi, will be returned to the railway station nearest to the Contractor's works, and delivered to the Contractor at the said railway station free of cost or carriage.

The Scrap for the manufacture of the Castings under this Contract shall be purchased by the Contractor from the Corporation, and except as hereinafter provided shall be paid for by the Contractor at the following rates delivered in trucks at Spotswood, and the rates set opposite to items numbered respectively 2214 to 2220r in this Schedule must include the cost of the said Scrap.

	£	s.	d.
Mild Steel, small and medium ..	2	3	6 per ton
Steel Tyres ..	2	13	0 „
Rails and Fishplates ..	2	11	0 „

STEEL CASTINGS—continued.

To cover waste, the Contractor shall purchase as aforesaid 30 per centum of Scrap in excess of any quantity of Castings which may be ordered from time to time. Provided in the event of the Contractor requiring for the purposes of this contract any quantity of scrap exceeding the respective percentages as aforesaid, then in every such case he shall pay for such excess at an increase of 5 per cent. Payment at the rate or rates aforesaid shall be made by the Contractor to the Chief Accountant of the Victorian Railways (within 48 hours after demand) for any Scrap which may be supplied to the Contractor from time to time as herein before provided, and failing payment as aforesaid, the Corporation shall be entitled to deduct any amount owing for the said Scrap from any money due or which may become due, to the Contractor under this Contract.

SPECIFICATION FOR STEEL CASTINGS.

Quality of Material and Chemical Tests.—(a) The Castings shall be manufactured from steel produced by an approved process and shall show on analysis not more than 0.05 per cent. of Sulphur or of Phosphorous.

(b) The Contractor shall supply an analysis of each cast with each delivery. A check analysis may be made by the Corporation from the broken tensile test specimen or from a casting representative of each cast. In the latter case the drillings shall be taken not less than one quarter of an inch beneath the surface of the casting.

Heat Treatment.—(a) All castings except where specified shall either be thoroughly annealed by heating to a temperature not less than the normalising temperature and allowing to cool slowly from the maximum temperature in a practically uniform manner, and allowing to cool in air away from draughts.

(b) For the purpose of determining the quality of annealing, at least two lugs shall be cast on all castings, except where their omission is specifically agreed to by the Corporation. The location and size of the annealing lugs shall be subject to approval by the Corporation unless indicated on drawings or patterns supplied by the Corporation. They shall be cast with and attached to each casting when presented for inspection, and shall be removed by or at the direction of the Receiving Officer. If in the opinion of the Receiving Officer the casting is not properly annealed, he may, at his option, require the casting to be reannealed.

(c) If, after annealing or reannealing, any casting is so much out of gauge as to require heating to bring it within gauge limits, it shall be reannealed before being accepted.

(d) Castings shall not be dipped in any preservative coating, or painted before being presented to the Receiving Officer for inspection or testing. In this specification the "normalising temperature" means a temperature exceeding the upper critical range of the steel, but not exceeding 920° C.

Moulding.—(a) The castings shall be accurately moulded in accordance with the patterns and/or working drawing supplied by the Corporation with the addition of such lettering as may be prescribed.

(b) When patterns and working drawings are supplied, the patterns shall be so made that sufficient margin is allowed to provide for all variation in shrinkage. The Contractor shall be responsible for calling attention, before work is commenced, to any discrepancy between the patterns and the working drawings supplied, or to insufficient allowance having been made in the patterns for shrinkage.

(c) Should any pattern or corebox supplied by the Corporation become so badly worn or damaged as to render it impracticable to mould castings from it to the degree of accuracy required, the Contractor shall be responsible for calling attention to the state of disrepair of the pattern or corebox. Failure to thus call attention shall render liable to rejection any castings which have been moulded from such pattern.

(d) The castings shown opposite items numbers 2218 to 2227 shall also conform to limit gauges supplied by the Corporation.

Any further particulars regarding the amount of gauging required for these steel castings may be obtained on application at the Rolling Stock Drawing Office, Room 135, Railway Offices, Spencer-street.

Patterns, Coreboxes and Gauges.—The Corporation will supply all patterns, coreboxes and gauges (when required) and deliver the same to the Contractor, free of cost, at the Victorian railway station nearest to his works. All patterns, &c., supplied by the Corporation shall be returned in good order and condition and shall be delivered together with the castings.

NOTE.—Whenever only one or two Castings are required, and they can in the opinion of the Comptroller of Stores be moulded from the broken originals, the Contractor shall be bound to mould from such broken originals, without requiring the Corporation to supply any pattern or corebox for same, and without being allowed any extra rate.

Branding.—The cast number shall be stamped upon each casting, close to the moulded number of pattern, together with the Contractor's name or trade mark, which shall be stamped or moulded on each casting. No moulded brand or mark shall be more than 2 inches high. All stampings shall be so stamped that they will be legible after the casting has been annealed.

Machining.—The Crossheads shown opposite items numbers 2229 to 2229T shall be finished machined as indicated on the drawings, except the bores of the pin and the rod, which shall be rough machined only. They shall be bored $\frac{1}{8}$ in. less in diameter than the finished size.

Fettling.—Castings shall be properly fettled and all surfaces shall be clean and free from sand.

Repairs to Defective Castings.—Any defects or unsound metal which a casting may have, from whatever cause arising, shall be left bare, and no filling with the object of obliterating such defects will be permitted unless previously sanctioned by the Receiving Officer. Any casting upon which such work has been done without such sanction having been obtained will be rejected. When such repairs have been sanctioned, the casting shall be reannealed or renormalised, as provided in clause (8) of this specification, unless specific permission to the contrary is given by the Comptroller of Stores.

Selection of Test Pieces.—The Receiving Officer will examine all castings before delivery, and make a selection from the bulk of castings from which the specified tests are to be taken. He will select and stamp pieces for testing purposes, to be cut from the casting, or from lumps formed on each casting, of such size and in such position in the mould as will furnish test pieces which shall be truly representative of the remainder of the metal.

Number of Tests.—The Castings will be required to pass the tests specified according to Classification.

General Castings.—Tensile Tests (Grades A, B, C and Crossheads). One tensile test shall be taken from each cast.

General Castings.—Bend Tests (Grades B, C and Crossheads). One bend test shall be taken from each cast.

Frame Stays and Bogie Centres.—At least one tensile test shall be taken from each cast, and one bend test from each casting.

Tensile Tests.—(a) The Australian Standard Test Piece D, having a gauge length of 3 in. and a sectional area of $\frac{1}{4}$ sq. in., or failing a 3-in. test piece, a Standard Test Piece C, having a gauge length of 2 in. and a sectional area of $\frac{1}{4}$ sq. in., shall, without reheating or any other manipulation whatever, conform to the following physical tests:—

GRADES A, B, C AND CROSSHEADS.

Grade A Castings are those WITH wearing surfaces.

Grade B Castings are those WITHOUT wearing surfaces.

Grade C Castings are those shown opposite items in the schedule.

	Grade A.	Grade B.	Grade C.	Crossheads.
Ultimate tensile breaking strength, tons per sq. inch minimum	35	27	32	28 to 30
Elongation per cent. minimum	10	24	22	20.
Reduction in area per cent. minimum	—	35	30	—
Yield Point shall not be less than 50 per cent. of the ultimate strength.				

(b) The yield point shall for the purpose of this specification be the load per sq. in., at which a distinctly visible increase occurs in the distance between gauge points on the test piece, observed by using dividers; or at which, when the load is increased at a moderately fast rate, there is a distinct drop in the testing machine lever, or in a hydraulic machine, of the gauge finger.

STEEL CASTINGS—GRADES A, B, C, AND CROSSHEADS—*continued.*

Cold Bend Test.—Except in the case of Grade A. Castings, a test piece 9 inches long turned to 1 inch diameter, must withstand, without fracture, being bent cold through an angle of 90° round a bar 2½ inches in diameter.

Additional Tests before Rejection.—In the event of the Castings selected for testing not satisfying the requirements of Clauses 11 or 12, the Receiving Officer shall, as specified below, make further tests of Castings, provided by the Contractor at his own expense, before finally refusing or accepting the castings represented.

(a) **Tensile or Bend Test.**—Should the casting fail in the tensile or bend test, and the fractured test piece indicate that the result does not fairly represent the bulk of the castings, then in castings coming under—

General Castings (Grades A, B, C, and Crossheads).—The tensile test shall be repeated from pieces cut from the same lump.

General Castings (Grades B, C, and Crossheads).—The bend test shall be repeated from pieces cut from the same lump.

The Castings shall be accepted if the retest is satisfactory, and the whole upon close examination found to be free from defects.

Frame Stays and Bogie Centres.—Tensile test pieces shall be taken from two more castings from the same cast or two more bend tests shall be taken from test pieces cut from the same lump.

The Castings shall be accepted if two of the three test results are satisfactory, and the whole upon close examination found to be free from defects.

Inspection and Rejection.—(a) The Receiving Officer shall have free access to the works of the Contractor at all reasonable times during the course of manufacture of the Castings. He shall be at liberty to inspect the manufacture at any stage, and to reject any Casting or material that is unsound or does not otherwise conform to the terms of this Specification.

(b) All tests and inspection of the material shall be completed at the Contractor's works, or elsewhere as provided in appropriate Clause, and shall be final prior to shipment, and shall be so conducted as not to interfere unnecessarily with the operation of the works.

(c) Should any portion of the material show injurious defects in the course of fabrication, the Contractor shall be notified and, provided the material has been properly treated by the Corporation, it shall be rejected and the Contractor shall replace it.

(d) After all material has passed the prescribed tests and is ready for shipment, the Receiving Officer shall stamp the parts with the acceptance mark.

Testing Facilities.—The Contractor shall supply the material for testing free of charge and shall, at his own cost, furnish and prepare the necessary test pieces and supply labour and appliances except gauges for such testing and gauging (when required) as may be carried out on his premises in accordance with this Specification. Failing facilities at his own works for making the prescribed tests, the Contractor shall bear the cost of carrying out the tests elsewhere, as agreed upon between the Contractor and the Corporation, but within the State in which the works of the Contractor are situated, provided always that suitable facilities exist in that State.

Latent Defects.—In the event of any casting supplied under this Contract proving unserviceable during the first six months' use, due to any defect which could not reasonably have been discovered by visual or other examination of the casting, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective casting.

The specification provides that the sulphur and phosphorus content shall not exceed .05 per cent., and Chas. Ruwolt Pty. Ltd. is the only firm that can supply Castings to this specification but all castings to be ordered will not require this specification. To the extent that this specification is required all such castings are to be ordered on Chas. Ruwolt Pty. Ltd. and provided satisfactory service is rendered, the balance of requirements is to be divided between the three Contractors, with repetition work allotted to the same Company wherever practicable.

The rates cover supply of general types of Castings and if Castings of a complicated nature be required, the Contractor shall have the right of appealing against payment at the contract rate. The decision of the Comptroller of Stores shall be final.

If the cost of production be varied as the result of any alteration in any Industrial Award, the contract rates shall be subject to amendment as may be determined by the Comptroller of Stores.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
2214	Castings, Steel— Castings, Steel (Grade "A" for castings with wearing surfaces; Grade "B" for castings without wearing surfaces), as specified— Under 2 lb., with or without wearing surfaces, as ordered	Vict.	10 cwt.	ton	84 0 0	Chas. Ruwolt Pty. Ltd.
2214A	Under 2 lb., with or without wearing surfaces, as ordered	"		do.	84 0 0	Steel Co. of Aust. Pty. Ltd.
2214B	Under 2 lb., with or without wearing surfaces, as ordered	"		do.	84 0 0	Thompson's Eng. & Pipe Co. Ltd.
2215	2 lb. and up to 14 lb., with or without wearing surfaces, as ordered	"	30 tons	do.	56 0 0	Chas. Ruwolt Pty. Ltd.
2215A	2 lb. and up to 14 lb., with or without wearing surfaces, as ordered	"		do.	56 0 0	Steel Co. of Aust. Pty. Ltd.
2215B	2 lb. and up to 14 lb., with or without wearing surfaces, as ordered	"		do.	56 0 0	Thompson's Eng. & Pipe Co. Ltd.
2216	Over 14 lb. and up to 1 cwt., with or without wearing surfaces, as ordered	"	350 "	do.	42 0 0	Chas. Ruwolt Pty. Ltd.
2216A	Over 14 lb. and up to 1 cwt., with or without wearing surfaces, as ordered	"		do.	42 0 0	Steel Co. of Aust. Pty. Ltd.
2216B	Over 14 lb. and up to 1 cwt., with or without wearing surfaces, as ordered	"		do.	42 0 0	Thompson's Eng. & Pipe Co. Ltd.
2217	Over 1 cwt., with or without wearing surfaces, as ordered	"		do.	42 0 0	Chas. Ruwolt Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
STEEL CASTINGS—continued.						
	Castings, Steel (Grade "A" for castings with wearing surfaces; Grade "B" for castings without wearing surfaces), as specified— <i>continued.</i>					
2217A	Over 1 cwt., with or without wearing surfaces, as ordered	Vict.	50 tons	ton	42 0 0	Steel Co. of Aust. Pty. Ltd.
2217B	Over 1 cwt., with or without wearing surfaces, as ordered	"		do.	42 0 0	Thompson's Eng. & Pipe Co. Ltd.
	Castings, Steel (Grade "A"), moulded within the limits of gauges—					
2218	Axle Boxes Car, Van, Wagon, and Engine Tender	"	160 tons	do.	60 0 0	Davies, Baird & Robertson Pty. Ltd.
2218A	Axle Boxes, Engine Trailing Truck	"		do.	48 0 0	Davies, Baird & Robertson Pty. Ltd.
2218B	Axle Boxes, Engine and Engine Bogie	"		do.	48 0 0	
	Castings, Steel (Grade "B") moulded within limits of gauges; weights between 14 lb. and 1 cwt.—					
2219	Draft Cheeks to V.R. Drawings, Nos. 7642 and 7611·7	"	160 tons	do.	40 0 0	Chas. Ruwolt Pty. Ltd.
2219A	Draft Cheeks to V.R. Drawings, Nos. 7642 and 7611·7	"		do.	40 0 0	Steel Co. of Aust. Pty. Ltd.
2219B	Draft Cheeks to V.R. Drawings, Nos. 7642 and 7611·7	"		do.	40 0 0	Thompson's Eng. & Pipe Co. Ltd.
2220	Carry Irons to V.R. Drawings, Nos. 7604·13 and 7611·2	"		do.	42 0 0	Chas. Ruwolt Pty. Ltd.
2220A	Carry Irons to V.R. Drawings, Nos. 7604·13 and 7611·2	"		do.	42 0 0	Steel Co. of Aust. Pty. Ltd.
2220B	Carry Irons to V.R. Drawings, Nos. 7604·13 and 7611·2	"		do.	42 0 0	Thompson's Eng. & Pipe Co. Ltd.
2221	Head Stock Stiffeners to V.R. Drawings, Nos. 7604·8, 7636·16 and 7690·97	"		do.	42 0 0	Chas. Ruwolt Pty. Ltd.
2221A	Head Stock Stiffeners to V.R. Drawings, Nos. 7604·8, 7636·16, and 7690·97	"		do.	42 0 0	Steel Co. of Aust. Pty. Ltd.
2221B	Head Stock Stiffeners to V.R. Drawings, Nos. 7604·8, 7636·16, and 7690·97	"		do.	42 0 0	Thompson's Eng. & Pipe Co. Ltd.
	Castings, Steel (Grade "C"), moulded within the limits of gauges—					
	(a) Weights over 1 cwt.					
2222	Yokes to V.R. Drawings, No. 7604·9	"		do.	40 0 0	Chas. Ruwolt Pty. Ltd.
2222A	Yokes to V.R. Drawings, No. 7604·9	"		do.	40 0 0	Steel Co. of Aust. Pty. Ltd.
2222B	Yokes to V.R. Drawings, No. 7604·9	"		do.	40 0 0	Thompson's Eng. & Pipe Co. Ltd.
2223	Striking Plates to V.R. Drawings, Nos. 7604·6, 7611·1, A.C. & F. Co. Drawing No. 3,573,653 and Drawing No. 7655·4	"		do.	52 0 0	Chas. Ruwolt Pty. Ltd.
2223A	Striking Plates to V.R. Drawings, Nos. 7604·6, 7611·1, A.C. & F. Co. Drawing No. 3,573,653 and Drawing No. 7655·4	"		do.	52 0 0	Steel Co. of Aust. Pty. Ltd.
2223B	Striking Plates to V.R. Drawings, Nos. 7604·6, 7611·1, A.C. & F. Co. Drawing No. 3,573,653 and Drawing No. 7655·4	"		do.	52 0 0	Thompson's Eng. & Pipe Co. Ltd.
	(b) Weights between 14 lb. & 1 cwt.					
2224	Back Stops to V.R. Drawings, Nos. 7604·7, 7611·8, 7636·13, 7643, 7655·9, Q. 3·19	"		do.	40 0 0	Chas. Ruwolt Pty. Ltd.
2224A	Back Stops to V.R. Drawings, Nos. 7604·7, 7611·8, 7636·13, 7643, 7655·9, Q. 3·19	"		do.	40 0 0	Steel Co. of Aust. Pty. Ltd.
2224B	Back Stops to V.R. Drawings, Nos. 7604·7, 7611·8, 7636·13, 7643, 7655·9, Q. 3·19	"		do.	40 0 0	Thompson's Eng. & Pipe Co. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
STEEL CASTINGS— <i>continued.</i>						
	Castings, Steel (Grade "C"), moulded within the limits of gauges— <i>continued.</i> (b) Weights between 14 lb. and 1 cwt.— <i>continued.</i>					
2225	Front Stops to V.R. Drawings, Nos. 7604·7, 7725·3, 7636·13	Vict.		ton	40 0 0	Chas. Ruwolt Pty. Ltd.
2225A	Front Stops to V.R. Drawings, Nos. 7604·7, 7725·3, 7636·13	"		do.	40 0 0	Steel Co. of Aust. Pty. Ltd.
2225B	Front Stops to V.R. Drawings, Nos. 7604·7, 7725·3, 7636·13	"		do.	40 0 0	Thompson's Eng. & Pipe Co. Ltd.
2226	Centre Plates, V.R. Drawing (V. 4 door), 3·50 and 31·21	"	See previous page	do.	40 0 0	Chas. Ruwolt Pty. Ltd.
2226A	Centre Plates, V.R. Drawing (V. 4 door), 3·50 and 31·21	"		do.	40 0 0	Steel Co. of Aust. Pty. Ltd.
2226B	Centre Plates, V.R. Drawing (V. 4 door), 3·50 and 31·21	"		do.	40 0 0	Thompson's Eng. & Pipe Co. Ltd.
2227	Carry Iron (Item 2220), Striking Plate (Item 2223), assembled complete with M. Steel Carry Iron Bolt, Nut and $\frac{1}{4}$ -in. diameter Split Pin, in accordance with V.R. Drawing I. Wagons 3·1, and within the limits of gauges	"	600 sets	set	2 19 0	Chas. Ruwolt Pty. Ltd.
2227A	Carry Iron (Item 2220), Striking Plate (Item 2223), assembled complete with M. Steel Carry Iron Bolt, Nut and $\frac{1}{4}$ -in. diameter Split Pin, in accordance with V.R. Drawing I. Wagons 3·1, and within the limits of gauges	"		do.	2 19 0	Steel Co. of Aust. Pty. Ltd.
2227B	Carry Iron (Item 2220), Striking Plate (Item 2223), assembled complete with M. Steel Carry Iron Bolt, Nut and $\frac{1}{4}$ -in. diameter Split Pin, in accordance with V.R. Drawing I. Wagons 3·1, and within the limits of gauges	"		do.	2 19 0	Thompson's Eng. & Pipe Co. Ltd.
	Castings, Steel, (Crosshead Grade), without machining—					
2228	Crossheads, A1, A2, C, D1, 2, 3 and 4, K and N, S, and X Class, as ordered	"	4 tons	ton	62 0 0	Chas. Ruwolt Pty. Ltd.
2228A	Crossheads, A1, A2, C, D1, 2, 3 and 4, K and N, S, and X Class, as ordered	"		do.	62 0 0	Steel Co. of Aust. Pty. Ltd.
2228B	Crossheads, A1, A2, C, D1, 2, 3 and 4, K and N, S, and X Class, as ordered	"		do.	62 0 0	Thompson's Eng. & Pipe Co. Ltd.
2228C	Crossheads, narrow gauge	"	5 cwt.	do.	62 0 0	Chas. Ruwolt Pty. Ltd.
2228D	Crossheads, narrow gauge	"		do.	62 0 0	Steel Co. of Aust. Pty. Ltd.
2228E	Crossheads, narrow gauge	"		do.	62 0 0	Thompson's Eng. & Pipe Co. Ltd.
2228F	Crossheads, Garratt	"		do.	62 0 0	Chas. Ruwolt Pty. Ltd.
2228G	Crossheads, Garratt	"		do.	62 0 0	Steel Co. of Aust. Pty. Ltd.
2228H	Crossheads, Garratt	"		do.	62 0 0	Thompson's Eng. & Pipe Co. Ltd.
	Steel Castings (Crosshead Grade), machined, as specified—					
2229	Crossheads, A2, (Walschaert Gear) to V.R. Drawing, No. 135A	"	4 tons	each	10 14 0	Chas. Ruwolt Pty. Ltd.
2229A	Crossheads, A2, (Walschaert Gear) to V.R. Drawing, No. 135A	"		do.	10 14 0	Steel Co. of Aust. Pty. Ltd.
2229B	Crossheads, A2, (Walschaert Gear) to V.R. Drawing, No. 135A	"		do.	10 14 0	Thompson's Eng. & Pipe Co. Ltd.
2229C	A1, A2 (Stevenson Gear) and S to V.R. Drawings, S. 15·5	"		do.	10 8 6	Chas. Ruwolt Pty. Ltd.
2229D	A1, A2 (Stevenson Gear) and S to V.R. Drawings, S. 15·5	"		do.	10 8 6	Steel Co. of Aust. Pty. Ltd.
2229E	A1, A2 (Stevenson Gear) and S to V.R. Drawings, S. 15·5	"		do.	10 8 6	Thompson's Eng. & Pipe Co. Ltd.
2229F	Crossheads, D. 1, 2, 3 and 4, to V.R. Drawings, 14	"		do.	9 0 0	Chas. Ruwolt Pty. Ltd.
2229G	Crossheads, D. 1, 2, 3 and 4, to V.R. Drawings, 14	"		do.	9 0 0	Steel Co. of Aust. Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
STEEL CASTINGS— <i>continued</i> .						
2229H	Steel Castings (Crosshead Grained), machined, as specified— <i>continued</i> .					
	Crossheads, D. 1, 2, 3 and 4, to V.R. Drawings, 14	Vict.		each	9 0 0	Thompson's Eng. & Pipe Co. Ltd.
2229I	Crossheads, C. and X. to V.R. Drawings C. and X. 17	"		do.	11 10 6	Chas. Ruwolt Pty. Ltd.
2229J	Crossheads, C. and X. to V.R. Drawings C. and X. 17	"		do.	11 10 6	Steel Co. of Aust. Pty. Ltd.
2229K	Crossheads, C. and X. to V.R. Drawings C. and X. 17	"	See previous page	do.	11 10 6	Thompson's Eng. & Pipe Co. Ltd.
2229L	Crossheads, K. and N. to V.R. Drawing K. and N. 17	"		do.	9 6 6	Chas. Ruwolt Pty. Ltd.
2229M	Crossheads, K. and N. to V.R. Drawing K. and N. 17	"		do.	9 6 6	Steel Co. of Aust. Pty. Ltd.
2229N	Crossheads, K. and N. to V.R. Drawing K. and N. 17	"		do.	9 6 6	Thompson's Eng. & Pipe Co. Ltd.
2229O	Crossheads, Narrow Gauge, V.R. Drawing N. A. 5344.1	"	5 cwt.	do.	7 0 0	Chas. Ruwolt Pty. Ltd.
2229P	Crossheads, Narrow Gauge, V.R. Drawing N. A. 5344.1	"		do.	7 0 0	Steel Co. of Aust. Pty. Ltd.
2229Q	Crossheads, Narrow Gauge, V.R. Drawing N. A. 5344.1	"		do.	7 0 0	Thompson's Eng. & Pipe Co. Ltd.
2229R	Crossheads, Garratt Gauge, V.R. Drawing G. 78	"		do.	4 10 0	Chas. Ruwolt Pty. Ltd.
2229S	Crossheads, Garratt Gauge, V.R. Drawing G. 78	"		do.	4 10 0	Steel Co. of Aust. Pty. Ltd.
2229T	Crossheads, Garratt Gauge, V.R. Drawing G. 78	"		do.	4 10 0	Thompson's Eng. & Pipe Co. Ltd.
2230	Steel Castings (Grade "C") as specified, Frame Stays and Bogie Centres	"		ton	56 0 0	Chas. Ruwolt Pty. Ltd.
2230A	Steel Castings (Grade "C") as specified, Frame Stays and Bogie Centres	"	38 tons	do.	56 0 0	Steel Co. of Aust. Pty. Ltd.
2230B	Steel Castings (Grade "C") as specified, Frame Stays and Bogie Centres	"		do.	56 0 0	Thompson's Eng. & Pipe Co. Ltd.
2231	Nil.					

STEEL CASTINGS—JUNCTION FISHPLATES.

(1.10.1930 to 30.9.1931.)

The stores referred to in this schedule (if tendered of Australian manufacture or production) shall be wholly manufactured or produced at the factory or works of the Contractor within the Commonwealth of Australia, at the address named where provided for at the end of the Schedule. No sub-letting will be allowed.

SPECIFICATION.

Patterns.—The Corporation will supply all patterns to the Contractor at the Way and Works Branch Workshops, Spotswood, Victoria, upon requisition to the Comptroller of Stores.

The patterns shall be kept in proper repair by the Contractor, and shall be returned in good order and condition to the Workshops Manager, Spotswood, on completion of each service ordered.

Description.—The Cast Steel Junction Fishplates shall be of the classes and weights ordered from time to time.

Quality of Material.—The castings shall be manufactured from steel produced by an approved process, and must not show on analysis more than 0.05 per cent. of sulphur or phosphorus.

Heat Treatment.—All castings shall be thoroughly annealed by heating to a temperature not less than the normalizing temperature (not exceeding 900 degrees C.) and allowing to cool slowly from the maximum temperature in a practically uniform manner.

Moulding.—The castings shall be accurately moulded in accordance with the patterns supplied, with the letters and figures well defined (denoting the hand, &c., and weights of rails), and in addition shall have a test bar of $\frac{1}{2}$ inch square section and 2 inches long cast thereto for the cold bend test.

The castings shall be of the highest quality and finish, free from shrinkage, recesses, holes, sand, and scale, with smooth and straight bearing faces so that a perfect fit to the heads and flanges of the rails is always maintained.

Repairs to Defective Castings.—Any defects or unsound metal which a casting may have, from whatever cause arising shall be left bare and no filling with the object of obliterating such defects will be permitted.

Cold Bend Test.—The test bar attached to each casting must withstand, without fracture, being bent double by striking with a $1\frac{1}{2}$ -lb. hammer. Should any test bar fail to fulfil the test the casting from which the test bar was tested will be rejected.

Inspection.—The Superintending Officer shall have free access to the works of the Manufacturer at all reasonable times during the course of manufacture of the castings. He shall be at liberty to inspect the castings at any stage, and to reject any casting or material that is unsound or does not otherwise conform to the terms of this Specification (even if they have withstood the cold bend test), and shall have the right to destroy or witness the destruction of any rejected fishplates. Every approved Cast Steel Junction Fishplate shall be indelibly stamped by the Superintending Officer at one end thus—(V R) ($\frac{1}{2}$ inch diameter), also a letter indicating the Manufacturer's initial; thus—R. The castings shall NOT be coated with any substance.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

STEEL CASTINGS—JUNCTION FISHPLATES—continued.

Latent Defects.—In the event of any casting supplied under this contract proving unserviceable during the first six months' use, due to any defect which could not reasonably have been discovered by visual or other examination of the casting, the Contractor shall at his own expense and at the discretion of the Comptroller of Stores, replace or make good the defective casting.

Delivery.—The Cast Steel Junction Fishplates shall be loaded into railway trucks by and at the cost of the Contractor at Spencer-street, and consigned to the Workshops Manager, Spotswood, Victoria, on blue consignment notes, which will be supplied by the Superintending Officer.

2232	Cast Steel Junction fishplates (annealed) with wearing surfaces, as ordered from time to time	Vict.	20 tons	ton	42	0	0	Chas. Ruwolt Pty. Ltd.
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BRASS AND GUNMETAL CASTINGS.

(1.10.1930 to 30.9.1932.)

YELLOW BRASS CASTINGS.—*Item* No. 1250.

The Yellow Brass Castings to be supplied shall be composed of 66 per cent. copper and 34 per cent. zinc, and the whole of the copper used in the manufacture of the Castings shall be from the best wire bars 99·9 per cent.

The Castings shall be supplied with runners and burrs removed, and shall be sound, clean and smooth, and free from any defects, blow holes, &c.

GUNMETAL CASTINGS—*Item No. 1251.*

Chemical Composition.—The alloy shall conform to the following requirements as to chemical composition:—Copper, 86 to 89 per cent.; Tin, 8 to 11 per cent.; Zinc, 1 to 3 per cent.

Chemical Analysis.—An analysis of each melt may be made by the Comptroller of Stores or his representative. The chemical composition thus determined shall conform to the requirements specified in clause 7.

Sampling.—(a) The sample for chemical analysis shall be taken either by sawing, drilling or melting the castings of tension test specimen and shall represent the average cross-section of the piece.

(b) The saw, drill, cutter or other tool used shall be thoroughly cleaned. No lubricant shall be used in the operation, and the saw dust or metal chips shall be carefully treated with a magnet to remove any particles of iron derived from the tools.

Tension Tests.—The alloy shall conform to the following requirements as to tensile properties:—

Tensile strength (lb. per square inch)	..	..	..	30,000
Elongation in 2" with a gauge diameter of .564 in.	..	..	..	14 per cent.

Test Specimens.—(a) Two test bars of suitable form and dimensions shall be an integral part of large castings, or cast separately in the case of small castings to represent the melt and shall be moulded in a manner similar to the castings which they represent.

(b) The Comptroller of Stores or his representative and the Contractor shall agree whether test bars can be attached to the castings, on the location of bars on the castings, on the castings to which bars are attached, and on the method of casting unattached bars.

Number of Tests.—(a) One tension test shall be made from each melt.

(b) If any test specimen shows defective machining or develop flaws it may be discarded, in which case the Contractor and the Comptroller of Stores or his representative shall agree upon another selection of another specimen in its stead.

Finish.—The castings shall be free from injurious defects, clean, free from sand, and with all fins removed.

All patterns shall be supplied by the Corporation, and shall be delivered to the Contractor at the railway station nearest to his works, and all such patterns shall be returned to the aforesaid station by and at the expense of the Contractor in good order and condition, and shall be delivered together with the castings. In the event of the non-return of any of the patterns, or of their being damaged, the price to be fixed by the Comptroller of Stores shall be paid by the Contractor, or may be deducted from any money due to the Contractor by the Corporation.

2233	Castings, Brass, Yellow	4,000 lb.	lb.	..	} Nil.
2234	" Gunmetal ..	..	..	..	750 "	do.	..
2235	} Nil							
2237								

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

GALVANIZED IRON.

(1.10.30 to 30.9.1931.)

SPECIFICATION FOR GALVANIZED IRON SHEET.

Samples.—The tenderer shall submit one sheet of galvanized iron for each quality of galvanizing of plain and corrugated iron; every sheet submitted shall be clearly branded, and labelled so that the item or items to which each relates is definite.

Quality.—The galvanized iron, both corrugated and plain, shall be manufactured from high grade wrought iron or low carbon steel, galvanized with a continuous coating of zinc of uniform thickness, and so applied that it adheres firmly to the surface of the iron or steel. The finished product shall be smooth, without adhering clumps or drops of spelter. The samples submitted shall be subjected to tests to determine the following properties:—

- The weight of zinc coating, expressed in ounces, on both sides of a sheet one foot square;
- The continuity of the zinc coating;
- The uniformity of the zinc coating;

Consideration will be given to the results obtained, in deciding the galvanized iron to be accepted.

Constants obtained on Tests.—In the event of the tender being accepted, the results of the above tests, as determined in the departmental laboratory, shall be incorporated in the contract, and all deliveries shall agree therewith.

The rates tendered include wharfage, but in the event of sufficient time being allowed for importation into the State of Victoria arrangements should be made by officers ordering for the material to be consigned on the Bill of Lading to the Comptroller of Stores of the Victorian Railways. Wharfage will be arranged by the Comptroller of Stores, and the amount involved is to be deducted from the Contractor's invoice.

Sheet, Corrugated, 26 gauge—						
2238	5'	..	..	..	N.S.W.	3 tons ton ..
2239	6'	..	..	..	"	8 " do. ..
2240	7'	..	..	..	"	6 " do. ..
2241	8'	..	..	..	"	9 " do. ..
2242	9'	..	..	..	"	3 " do. ..
2243	10'	..	..	..	"	1 " do. ..
2244	6', 1" pitch	..	..	..	"	1 " do. ..
2245	7', 1" pitch	..	..	..	"	1 " do. ..
2246	8', 1" pitch	..	..	..	"	1 " do. ..
Sheet, Corrugated, 24 gauge—						
2247	5'	..	..	..	"	5 " do. ..
2248	6'	..	..	..	"	18 " do. ..
2249	7'	..	..	..	"	10 " do. ..
2250	8'	..	..	..	"	9 " do. ..
2251	9'	..	..	..	"	4 " do. ..
2252	10'	..	..	..	"	6 " do. ..
Sheet, Plain, 28 gauge—						
2253	6' x 2'	..	..	..	"	1 " do. ..
2254	6' x 2' 6"	..	..	..	"	1 " do. ..
2255	6' x 3'	..	..	..	"	1 " do. ..
Sheet, Plain, 26 gauge—						
2256	6' x 2' 6"	..	..	..	"	1 " do. ..
2256A	6' x 2' 6"	..	..	..	"	1 " do. ..
2257	6' x 3'	..	..	..	"	8 " do. ..
Sheet, Plain, 24 gauge—						
2258	6' x 22"	..	..	..	"	1 " do. ..
2258A	6' x 2'	..	..	..	"	3 " do. ..
2259	6' x 2' 6"	..	..	..	"	3 " do. ..
2260	6' x 3'	..	..	..	"	18 " do. ..
Sheet, Plain, 22 gauge—						
2261	6' x 2' 6"	..	..	..	"	1 " do. ..
2262	6' x 3'	..	..	..	"	1 " do. ..
Sheet, Plain, 20 gauge—						
2263	6' x 2'	..	..	..	"	1 " do. ..
2264	6' x 2' 6"	..	..	..	"	1 " do. ..
2265	6' x 3'	..	..	..	"	6 " do. ..
Sheet, Plain, 18 gauge—						
2266	6' x 2'	..	..	..	"	1 " do. ..
2267	6' x 2' 6"	..	..	..	"	1 " do. ..
2268	6' x 3'	..	..	..	"	3 " do. ..

Nil

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	

GALVANIZED IRON—continued.

	Sheet, Plain, 16 gauge—							} Nil	
2269	6' x 2'	..	..	..	N.S.W.	2 tons	ton		..
2270	6' x 2' 6"	..	..	..	"	8 "	do.		..
2271	6' x 3'	..	..	..	"	23 "	do.		..
2272 to 2275	Nil								

DRAWING PAPERS, PAPER BAGS, ETC.

(1.10.1930 to 30.9.1931.)

§ As regards Items Nos. 2279 and 2280, the contract rates include Exchange at $1\frac{1}{4}$ per cent. only, the Corporation will pay the difference between $1\frac{1}{4}$ per cent. and the published Bank rate for T.T. Exchange ruling on the date of delivery of any stores ordered on 80 per cent. of the contract value.

The rate tendered by Theo. Zwicker for Item No. 2318 is firm regarding Customs Duty and Exchange up to the estimated requirements, as this quantity is held in stock. If further quantities be required the rate should be reviewed before placing orders as determination of the contract may be more advantageous to the Department than paying Exchange.

Paper, Drawing—						
†2276	Antiquarian, hand-made, James Whatman, "N.O.T."	U.K.	6 quires	quire	3 15 0	} W. & G. Dean Pty. Ltd.
†2277	Antiquarian, mounted on linen, 25 yards in roll	U.K. & Vict.	25 yards	lin. yd.	0 9 0	
†2278	Double Elephant, hand-made, "James Whatman"	..	3 quires	quire	..	Nil
†2279	Cartridge, 60" wide, continuous, in rolls of 50 yards, "S.O. Imperial 73"	U.K.	21 rolls	roll	\$1 3 6	Wiggins, Teape & Alex. Pirie (Export) Ltd.
†2280	Cartridge, 54" wide, mounted on linen, in rolls of 50 yards, No. 60	"	3 "	do.	\$11 0 0	R. C. Paterson & Co. Pty. Ltd.
†2281	Tenax, 60" wide, continuous, in rolls of 50 yards	"	2 "	do.	2 0 0	W. & G. Dean Pty. Ltd.
Cloth, Tracing—						
*2282	30" wide, 24 yards in roll, "Sagars"	..	48 "	do.	..	} Nil
*2283	38" wide, 24 yards in roll, "Sagars"	..	50 "	do.	..	
†2284	Paper, Tracing, unrolled, continuous 40" wide, 25 yards in roll	U.K.	26 "	do.	0 7 6	W. & G. Dean Pty. Ltd.
Bags, Paper, Brown, long or square, as ordered—						
"Un glazed Quality No. 2"—						
†2285	$\frac{1}{2}$ lb.	Vict.	1,500	1,000	0 2 2 $\frac{1}{2}$	} C. R. Gabb & Co.
†2286	1 lb.	"	300,000	do.	0 2 10 $\frac{1}{2}$	
†2287	2 lb.	"	350,000	do.	0 4 2 $\frac{1}{2}$	
†2288	3 lb.	"	225,000	do.	0 5 6	
†2289	4 lb.	"	450,000	do.	0 6 7 $\frac{1}{2}$	
†2290	6 lb.	"	57,500	do.	0 8 1 $\frac{1}{2}$	
Bags, Paper, Confectionery—						
†2291	4 oz.	"	15,000	do.	0 1 9	} E. C. Blackwood
†2292	6 oz.	"	1,500	do.	0 1 10	
†2293	8 oz.	"	57,500	do.	0 2 0	
†2294	16 oz.	"	25,000	do.	0 2 9	
Bags, Paper, Kraft, Brown, heavy—						
†2295	6 lb.	"	2,500	do.	0 17 6	} Andrew Jack, Dyson & Co. Pty. Ltd.
†2296	8 lb.	"	27,000	do.	1 2 6	
†2297	10 lb.	"	6,000	do.	1 4 6	} C. R. Gabb and Co.
†2298	12 lb.	"	27,000	do.	1 7 6	
†2299	16 lb.	"	750	do.	1 14 0	A. J. Wallace
Bags, Sugar, Sulphite—						
†2300	$\frac{1}{2}$ lb.	"	1,000	do.	0 5 6	} A. J. Wallace
†2301	1 lb.	"	5,000	do.	0 6 0	
†2302	2 lb.	"	13,500	do.	0 8 4	
†2303	3 lb.	"	1,500	do.	0 10 6	
†2304	4 lb.	"	1,000	do.	0 11 6	} Andrew Jack Dyson & Co. Pty. Ltd.
†2305	6 lb.	"	1,500	do.	0 17 6	
†2306	8 lb.	"	500	do.	1 2 6	
†2307	10 lb.	"	500	do.	1 6 0	
†2308	Bags, Coin, 5" x 7", Stout Kraft	"	7,500	do.	0 5 6	A. J. Wallace

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
DRAWING PAPERS, PAPER BAGS, ETC.—continued.						
*2309	Boxes, Cardboard— 7½" x 4" x 2½" (inside)	Vict.	40 doz.	dozen	0 1 0	Sands & McDougall Pty. Ltd.
	Envelopes—					
†2310	Glazed Manilla, Pocket, 2½" x 5½"	"	23,500	1,000	0 4 9	Spicers & Detmold Ltd.
*2311	First Quality, White, Note, 5½" x 3½"	"	15,000	do.	0 3 9	Alex. Cowan & Sons Ltd.
†2312	Pence, M.G. Manilla, 3" x 2½"	"	33,500	do.	0 4 1	Spicers & Detmold Ltd.
*2313	Window-faced, G. 101 B, 5½" x 3½", printed on front and flap, to sample. Two electros supplied, and to be returned in good order and condition. The Envelopes to be banded in lots of 25, and boxed in lots of 500	..	Nil	do.	..	Nil
	Rolls of Paper—					
†2314	Burroughs Adding Machine Paper, 3½" ..	U.K. & N.S.W.	400 rolls	100 rolls	3 5 0	} A. J. Wallace
†2314A	Barretts Adding Machine, 2½" wide ..	"	100 "	do.	2 7 6	
†2315	Paper, Brown, Gummed Adhesive, 1" wide, 800' to roll	Vict.	250 "	roll	0 0 11	} Spicers & Detmold Ltd.
†2316	White News, 12" wide x 50 yards long ..	"	550 "	do.	0 0 10	
*2317	Tabulating Rolls for Powers Machine ..	U.K. & N.S.W.	2,000 "	do.	0 1 4	A. J. Wallace
†2318	Tape, Telegraph Instrument, ½" white ..	Germany	400 lb.	lb.	0 0 8½	Theodore Zwicker
	Visiting Cards—					
†2319	Cards, Gent's Visiting, round or square cornered, as ordered (boxes of 50's),	Vict.	125 boxes	box	0 0 3	Sands & McDougall Pty. Ltd.
2320 to 2324	} Nil.					

PRINTING AND WRITING PAPERS, ETC. .

(1.10.1930 to 30.9.1931.)

The Printing Papers shall be equal in quality, weight, and colour to the samples furnished by the Contractor and accepted by the Corporation, and shall be cut to the true size ordered. Each ream shall contain 500 sheets, and shall be supplied flat (not folded). No creased or damaged paper will be accepted.

The Writing Papers shall be equal in quality, weight, and colour to the samples furnished by the Contractor and accepted by the Corporation, and shall be cut to the true size ordered. Each ream shall contain 480 sheets, and shall be supplied flat (not folded). No creased or damaged paper will be accepted.

*All the rates tendered for imported Paper include Primage Duty and duty on containers, but such rates only include Exchange at 1½%.

The Corporation will pay the difference between 1½% and the published Bank rate for T.T. Exchange ruling on the date of delivery of any stores ordered, on 80% of the contract value.

Further, in the event of there being any alteration in the current rate of steamer freight for these items an adjustment shall be made.

The Contractor shall produce such documentary evidence re freight as required by the Chief Accountant.

Printing Papers—						
†2325	Quad. Crown, News, 44 lb.	U.K.	120 eams	ream	*0 8 5	Spicers & Detmold Ltd.
†2326	" M.G. Litho., 54 lb.	"	8 "	do.	*0 17 10	Woolcott & Mackie Pty. Ltd.
†2327	" Art, 72 lb., 500's, "Lonsdale"	"	150 "	do.	*1 13 9	} Spicers & Detmold Ltd.
†2328	" Art, 120 lb., 500's, "Lonsdale"	"	9 "	do.	*2 16 3	
†2329	" M.T. White, 48 lb., "Kingsbury"	"	500 "	do.	*0 13 6	
†2330	" Sup. Cal., 72 lb., "Ivoretta"	"	50 "	do.	*1 0 3	
†2331	" Imitation Art, 72 lb.	"	Nil	} Nil
†2332	Double Royal, Blue, 48 lb.	Belgium	38 "	do.	*0 11 6	
†2333	" Cerise, 48 lb.	"	23 "	do.	*0 11 6	} Gordon & Gotch (A/asia) Ltd.
†2334	" Green, 48 lb.	"	23 "	do.	*0 11 6	
†2335	" Red, 48 lb.	"	50 "	do.	*0 15 6	
†2336	" Salmon, 48 lb.	"	65 "	do.	*0 11 6	
†2337	" Yellow, 48 lb.	"	65 "	do.	*0 11 6	
†2338	" Pink, 48 lb.	"	75 "	do.	*0 11 6	
†2339	" White, 40 lb., "Kingsbury"	U.K.	750 "	do.	*0 11 3	
†2340	" White, 50 lb., "Kingsbury"	"	250 "	do.	*0 14 1	
†2341	" News, 37 lb.	"	350 "	do.	*0 7 2	Spicers & Detmold Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
PRINTING AND WRITING PAPERS—continued.						
Printing Papers—continued.						
+2342	Double Royal, M.G., 80 lb. ..	U.K.	5 reams	ream	*1 8 9	L. W. Woolcott
+2343	" Art, 60 lb., 500's, "Lonsdale"	"	38 "	do.	*1 8 2	Spicers & Detmold Ltd.
+2344	Quad. Foolscap, White, 37lb., "Kingsbury"	"	875 "	do.	*0 10 5	Gordon & Gotch (A/asia) Ltd.
+2345	" Yellow, 40 lb. ..	Belgium	30 "	do.	*0 10 0	
+2346	Double Medium, Cerise, 80 lb. ..	"	4 "	do.	*1 0 0	
+2347	" Yellow, 80 lb. ..	"	2 "	do.	*1 0 0	
+2348	" Salmon, 80 lb. ..	"	4 "	do.	*1 0 0	
+2349	" Blue, 80 lb. ..	"	2 "	do.	*1 0 0	
+2350	" Art, 56 lb., 500's, "Lonsdale"	U.K.	125 "	do.	*1 6 3	Spicers & Detmold Ltd.
+2351	" Old Gold, 60 lb. ..	Belgium	18 "	do.	*0 15 0	Gordon & Gotch (A/asia) Ltd.
+2352	Glazed Cap, 36" x 24", 45 lb. ..	N.S.W.	225 "	do.	0 16 0	Australian Paper Manfs. Ltd.
+2353	Smooth Cartridge, 20" x 25", 40 lb. ..	Vict.	110 "	do.	0 18 6	Gordon & Gotch (A/asia) Ltd.
+2354	Double Demy, Yellow, 40 lb. ..	Belgium	150 "	do.	*0 9 7	
+2355	" Green, 40 lb. ..	"	30 "	do.	*0 9 7	
+2356	" Pink, 40 lb. ..	U.K.	50 "	do.	*0 9 7	Gordon & Gotch (A/asia) Ltd.
+2357	" Red, 40 lb. ..	"	15 "	do.	*0 13 0	
+2358	" Salmon, 40 lb. ..	"	38 "	do.	*0 9 7	
+2359	" News, 28 lb. ..	U.K.	700 "	do.	*0 5 2	Spicers & Detmold Ltd.
+2360	" White, 40 lb., "Kingsbury"	"	225 "	do.	*0 11 3	
+2361	" White, Sup. Cal., 40 lb. ..	"	Nil	"	"	Nil
+2362	" Green, 24 lb. ..	"	Nil	"	"	
+2363	Demy, White, Gummed, 1st quality, 500's, non-curling, "Don"	U.K.	15 reams	ream	*0 18 6	Wiggins, Teape & Alex. Pirie (Export) Ltd.
+2364	" " " 2nd quality, 500's, non-curling, "Dee"	"	150 "	do.	*0 16 0	
+2365	Double Crown, Manilla, Carte, 20" x 30", 100 lb.	Victoria	38 "	do.	1 17 6	Australian Paper Manfs. Ltd.
+2366	" White Cap., 7-8 lb. ..	Scand.	375 "	do.	*0 2 7½	E. H. Cooper Pty. Ltd.
+2367	" Clear, Grease-proof, 16-17lb.	"	110 "	do.	"	Nil
+2368	Paper, Striped Scaling or Brown Cap, 19" x 29", 8 lb.	Scand.	10 "	do.	*0 2 8½	E. H. Cooper Pty. Ltd.
Lithographic Papers—						
+2369	51" x 31", 160 lb. "75055" ..	U.K.	18 "	do.	*2 15 11	Wiggins, Teape & Alex. Pirie (Export) Ltd.
Writing Papers—						
+2370	Double Large Post, Bank, White, 22 lb.	"	125 "	do.	*0 7 9	E. H. Cooper Pty. Ltd.
+2371	" " White, 36 lb. ..	"	60 "	do.	*0 10 5	Spicers & Detmold Ltd.
+2372	" " White, 46 lb. "Inverdon"	"	23 "	do.	*0 18 2	Wiggins, Teape & Alex. Pirie (Export) Ltd.
+2373	" " Azure, 46 lb., "Inverdon"	"	13 "	do.	*0 18 2	
+2374	" Medium Bond, White, 36 lb. ..	"	300 "	do.	*0 17 11	
+2375	" " "Bankers' Bond"	"	15 "	do.	*0 16 6	
+2376	" " Blue, 36 lb., "Peerless Bond"	"	15 "	do.	*0 16 6	Gordon & Gotch (A/asia) Ltd.
+2377	" " Green, 36 lb. do. ..	"	38 "	do.	*0 16 6	
+2378	" " Pink, 36 lb. do. ..	"	25 "	do.	*0 16 6	
+2379	" " Yellow, 36lb. do. ..	"	15 "	do.	*2 1 9½	Wiggins, Teape & Alex. Pirie (Export) Ltd.
+2380	Quad. Foolscap, Bank, 15 lb. (Manifolding)	"	Nil	"	"	Nil
+2381	" Azure Laid, 60 lb., "Standard Ledger"	U.K.	60 reams	ream	*1 16 10½	Wiggins, Teape & Alex. Pirie (Export) Ltd.
+2382	" Azure, 48 lb.	"	40 "	do.	*0 14 9	Spicers & Detmold Ltd.
+2383	" White, 48 lb. Wove "Inverdon"	"	500 "	do.	*0 18 7½	Wiggins, Teape & Alex. Pirie (Export) Ltd.
+2384	" Duplicating White, 48 lb., hard-sized, "Copyclear"	"	1,250 "	do.	*0 19 0	
+2385	" Bank, White, 28 lb. ..	Vict.	"	do.	0 12 3	
+2386	" " Cerise, 28 lb. ..	"	"	do.	0 12 3	
+2387	Double Royal, Bank, White, 30 lb. ..	"	750 "	do.	0 13 1½	Australian Paper Manufacturers Ltd.
+2388	Double Demy, Bank, White, 25 lb. ..	"	"	do.	0 10 11½	
+2389	" Old Gold, 25 lb.	"	"	do.	0 10 11½	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
PRINTING AND WRITING PAPERS—continued.						
	<i>Writing Papers—continued.</i>					
+2390	Double Foolscap, Blue, 24 lb. . . . .	..	18 reams	ream	..	Nil
+2391	" C.L., 28 lb., "Croxley Reliance"	U.K.	75 "	do.	*1 4 9½	John Dickinson & Co. (Aust.) Ltd.
+2392	" 28 lb., "Motor Extra Strong,"	"	18 "	do.	*0 16 3	Woolcott & Mackie Pty. Ltd.
+2393	Double Demy, Azure, 48 lb. "Standard Ledger"	"	18 "	do.	*1 9 6	Wiggins, Teape & Alex. Pirie (Export) Ltd.
+2394	Royal Azure, 42 lb. "Standard Ledger" ..	"	4 "	do.	*1 5 9½	Nil
+2395	Azure Laid, 16½" x 37", 50-51 lb. . . . .	..	Nil	..	..	Nil
+2395A	Azure, 17½" x 40", guillotine trimmed all sides (Quad. Foolscap, Azure, 56 lb. substance), "W.T. and A.P."	U.K.	200 "	do.	*0 15 11	Wiggins, Teape & Alex. Pirie (Export) Ltd.
+2396	27" x 41", White, 75 lb., 500's.	"	30 "	do.	*1 4 6	E. H. Cooper Pty. Ltd.
	Blotting Paper—					
+2397	Demy, White, 36 lb.	Viet.	} 250 "	do.	0 19 6	} Aust. Paper Manufac- turers Ltd.
+2397A	" 36 lb. (in lots of 50 reams) ..	"		do.	*0 18 0	
+2398	" 46 lb. 1st quality, folded or flat, as ordered, "Gordon"	U.K.	30 "	do.	*1 18 4	Gordon & Gotch (A/asia) Ltd.
2399 to 2400	Nil.					

CARBON PAPER.

(1.10.30 to 30.9.31.)

Name of Manufacturer—

G. B. Fry & Co.—Old Town Ribbon & Carbon Co., New York, U S A.

Harston, Partridge & Co.—Farquharson Bros. Ltd., Scotland.

John Withers & Son—Swallow Mfg. Co. Ltd., London.

As regards Items Nos. 2415, 2416, and 2417, the Carbon Paper must be capable of taking five clear copies and of durable quality.

	Paper, Carbon, blue, extra rich, two sides, 20 lb.—							
+2401	Demy Folio, 17 $\frac{1}{8}$ " x 11 $\frac{1}{4}$ ", Pencil, "Cyro"	U.K.	35 reams	ream	2	6	8	} Harston, Partridge & Co. Pty. Ltd. Ramsay & Hall Pty. Ltd.
+2402	Foolscap Folio, 13 $\frac{1}{4}$ " x 8 $\frac{1}{4}$ ", Pencil, "Cyro"	"	3 "	do.	1	11	6	
+2403	Paper, Carbon Billing blue, Brief, 16" x 13", in boxes of 100 sheets, "Hall Mark"	Vic.	200 boxes	box	0	6	0	
	Paper, Carbon, Pen—							
+2404	Foolscap Quarto, 50 sheets per box "Cyro"	U.K.	50 "	do.	0	1	3	} Harston, Partridge & Co. Pty. Ltd.
+2405	17 $\frac{1}{2}$ " x 7 $\frac{1}{2}$ ", "Cyro"	"	2,000 sheets	100 sheets	0	3	9	
+2406	17 $\frac{1}{2}$ " x 10", "Hall Mark"	Vic.	2,000 "	"	0	5	0	
	Paper, Carbon, Pencil—							
+2407	Foolscap Folio, 13" x 8" .. ..	..	110,000 "	do.	..			Nil
	Paper, Carbon, Typewriting, black (corner to be cut off each sheet)—							
+2408	Foolscap Folio, 13" x 8", to produce up to 20 copies, "Hall Mark"	Vic.	25,000 "	do.	0	3	6	Ramsay & Hall Pty. Ltd.
+2409	" 13" x 8", to produce up to 6 copies, "Holborn"	U.K.	67,500 "	do.	0	2	6	John Withers & Son Pty. Ltd.
+2410	Foolscap, 16" x 13", to produce up to 20 copies, "Hall Mark"	Vic.	4,500 "	do.	0	7	0	Ramsay & Hall Pty. Ltd.
+2411	" 16" x 13", to produce up to 6 copies, "Holborn"	U.K.	8,500 "	do.	0	5	0	} John Withers & Son Pty. Ltd.
	Paper, Carbon, Typewriting—							
+2412	17 $\frac{1}{2}$ " x 10", to take 3 copies	"	5,500 "	do.	0	4	6	
+2413	17 $\frac{1}{2}$ " x 7 $\frac{1}{2}$ " " " " "	"	2,000 "	do.	0	3	9	} Ramsay & Hall Pty. Ltd.
+2414	10" x 4", for Addressograph Machine, "Hall Mark"	Vic.	1,000 "	do.	0	2	6	
	Paper, Carbon, Pencil, blue, one-sided, to be coated on 9-lb. paper—							
+2415	24" x 4 $\frac{1}{2}$ ", to take 5 copies .. ..	..	2,000 "	do.	..			Nil
+2416	19" x 9" " " " "Kleen-Type"	U.K.	800 "	do.	0	4	10	Abbott, Goodman & Co.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
CARBON PAPER—continued.						
†2417	Paper, Carbon, Pencil, blue, one-sided, to be coated on 9-lb. paper— <i>continued.</i> 18" x 5½" to take 5 copies	U.K.	8,000 sheets	100 sheets	0 2 6	John Withers & Son Pty. Ltd.
2418	27" x 5"	"	1,400 "	do.	0 3 6	
2419	15" x 5"	"	550 "	do.	..	Nil
2420	15" x 9"	U.K.	550 "	do.	0 3 9	John Withers & Son Pty. Ltd.
2421	15" x 8"	"	550 "	do.	..	Nil
2422	13" x 8"	"	19,500 "	do.	..	
2423	13" x 5"	U.K.	550 "	do.	0 1 6	John Withers & Son Pty Ltd.
2424	12" x 5"	"	73,000 "	do.	..	Nil
2425	11½" x 11½"	U.K.	1,400 "	do.	0 3 9	John Withers & Son Pty. Ltd.
2426	11" x 9"	"	1,100 "	do.	0 2 9	
2427	11" x 6"	"	5,500 "	do.	..	Nil
2428	Nil.					

OFFICE REQUISITES.

(1.10.30 to 30.9.31.)

*2429	Bands, Elastic, extra strong, ½-gross boxes— No. 5	Vict.	8 boxes	box	0 2 9	Dunlop-Perdriau Rubber Co. Ltd.
*2430	No. 6	"	3 "	do.	0 3 2	
†2431	Bands, Elastic, extra large, grey, 7" x ½" x ¼"	"	40 doz.	dozen	0 1 4½	
†2432	" " thin, small, 4" x ¼" x ⅛"	"	85 gross	gross	0 1 6½	
Binders, Paper—"Premier"—						
†2433	No. 612	U.K.	250 "	do.	0 2 3	Spicers & Detmold Ltd.
†2434	No. 643	"	35 "	do.	0 2 10½	
†2435	No. 644	"	35 "	do.	0 3 8	
†2436	No. 645	"	50 "	do.	0 4 11	
†2437	Bodkins with eyes	"	50 "	each	..	Nil
†2437A	" without eyes	"	75 "	do.	..	
†2438	Bowls, Glass, 4" at top, with sponge	"	50 "	do.	..	
†2439	Clips, Bulldog, 2½"	U.K.	100 doz.	dozen	0 2 2	
Crayons, Pencil, solid, Cosmic Waterproof—						
†2440	Yellow	"	200 "	do.	0 1 9	Sands & McDougall Pty. Ltd.
†2441	Crimson	"	48 "	do.	0 2 3½	
†2442	Green	"	100 "	do.	0 1 9	
†2443	Black	"	14 "	do.	0 1 9	
†2444	Blue	"	60 "	do.	0 1 9	
†2445	Crayons, School, white	Vict.	115 boxes	box	0 1 2½	Nil
†2446	Erasers, Ink and Pencil, small	"	90 doz.	dozen	..	Sands & McDougall Pty. Ltd.
†2447	" I.R., pink, pliable, 12"	Vict.	90 lb.	lb.	0 2 1	
†2448	" " green, small	"	75 doz.	dozen	0 2 3	Barnet Glass Rubber Co. Ltd.
Fasteners, Paper, ordinary, in boxes of 1 gross—						
2449	" Micro "	U.K.	1 boxes	box	0 0 4	Spicers & Detmold Ltd.
2450	S.00	"	1 "	do.	0 0 4	
2451	S.0	"	23 "	do.	0 0 4	
†2452	S.1	"	43 "	do.	0 0 4½	
2453	S.2	"	48 "	do.	0 0 5½	
2454	S.3	"	390 "	do.	0 0 6½	
2455	S.4	"	190 "	do.	0 0 7½	
†2456	S.5	"	100 "	do.	0 0 8½	
†2457	S.6	"	215 "	do.	0 0 10	
†2458	S.7	"	1 "	do.	0 1 1	
†2459	S.8	"	15 "	do.	0 1 5	
†2460	S.9	"	1 "	do.	..	Nil
†2461	S.10	"	10 "	do.	..	
†2462	S.11	"	1 "	do.	..	
†2463	S.12	"	45 "	do.	..	
*2464	Files, Foolscap, clip	Q'land	95 "	each	0 1 6½	A. J. Wallace
†2465	Gum, Art	"	10 doz.	dozen	..	Nil
†2466	Holders, Pen, small	U.K.	45 gross	gross	0 4 9	Spicers & Detmold Ltd.
*2467	Inkstands, Glass, round, 3½"	"	120 "	each	..	Nil
†2468	Knives, Desk P 571	"	45 "	do.	..	Nil
†2468A	Pads, Blotting, 23" x 18" with corners	"	50 "	do.	..	Nil
†2469	Pens, Lithographic, on card of 12, No. 659	"	12 cards	card	..	Nil

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
OFFICE REQUISITES—continued.						
†2470	Pens, Nibs, in boxes of 1 gross— “Myers” No. 9 (in lieu of Hinks Well, No. 9, Steel)	U.K.	750 boxes	box	0 0 9½	} E. C. Fowler & Co.
†2471	“Myers Kookaburra,” (in lieu of Brandeurs, “Times”)	„	90 „	do.	0 2 5	
†2472	Brandeurs, “Herald”	„	36 „	do.	0 2 3	
†2473	Bak-Fin “Ideal,” (in lieu of “Mail”) ..	„	50 „	do.	0 2 3	Robert Hutton
2474	Brandeurs “Scribbler”	„	18 „	do.	0 3 4½	Spicers & Detmold Ltd.
†2475	Pens, Nibs, Gilt— Leonardts, 516 E.F.	„	45 „	do.	..	} Nil
†2476	„ 526 F.	„	50 „	do.	..	
†2477	Easterbrooks, “Relief”	„	28 „	do.	..	
†2478	„ “Probate”	„	3 „	do.	..	
†2479	Pens, Manifold, 0505, Slip	U.K.	45 „	do.	0 2 6½	Sands & McDougall Pty Ltd.
†2480	Pins, Best, Drawing, large, No. 494 ..	„	120 doz.	doz.	..	Nil
†2481	„ „ „ medium, in boxes of 1 gross	„	80 boxes	box	..	Nil
†2482	Pins, Best London, mixed, in packets of 1 oz.	U.K.	500 lb.	lb.	0 3 1	Hicks, Atkinson & Sons Pty. Ltd.
†2483	Rulers, Flat, 15”, brass edge	Vict.	130	each	0 0 5½	Spicers & Detmold Ltd.
†2484	Sponges, for 4” bowls	„	100	do.	..	Nil
†2485	Wax, Sealing, Red	Vict.	45 lb.	lb.	0 1 8	Felton, Grimwade & Co. Pty. Ltd.
†2486	Wells, Water	„	14	each	..	Nil
2487	} Nil.					
to						
2491						

AMBULANCE MATERIAL

(1.10.1930 to 30.9.1931.)

Item No. 2553. 3s. 6d. allowed on bottles if returned in good order and condition.

As regards Items Nos. 2504 to 2507 (Henry Francis & Co.)—the rates tendered shall be adjusted in the event of there being any alteration in the published Bank rate of Exchange from 7% for sight drafts London on Australia on the date of delivery of any material ordered under these items. To obviate the necessity of submitting documentary evidence of remittance, the adjustment will be made between 7% and the ruling Bank rate on the date of delivery on 80% of the contract value which will be regarded as the c.i.f. value.

The value of the balance of the items of Henry Francis & Co.'s contract does not warrant an adjustment being made.

Sufficient time will be allowed for importation to meet initial orders for Items Nos. 2504 to 2507.

2492	Acid, Boracic	U.K.	30 lb.	lb.	0 0 6	} Felton, Grimwade & Co. Pty. Ltd.
2493	„ Carbolic, Crystals (pure Welsh)	„	1 „	do.	0 2 2	
2494	„ Picric	„	5 „	do.	0 2 11	
2495	Nil .. .. .	„	..	..	..
2496	Ammonia, Vaporole (12 in tin)	U.K.	4 doz. tins	dozen tins	1 9 0	
2497	(Antiphlogistine) Plastine (Hospital size, 5-lb. tins)	Vict.	100 tins	tin	0 5 9	} Nil
2498	Arnica, Tincture of (bulk)	„	4 lb.	lb.	0 4 2	
2499	Aspirin, 5-gr. tablets (500 in bottle)	„	4 bots.	bottle	0 2 2	
2499A	Aspro Tablets, 500 in bottle (bulk) .. .. .	„	..	..	..
2500	Balsam, Friar's, with Methylyated Spirits (bulk)	Vic.	40 lb.	lb.	0 2 3		Felton, Grimwade & Co. Pty. Ltd.
*2501	Bandages, Calico, Roller— 3 in. x 6 yds.	U.K.	500 doz.	dozen	0 2 6	} Hicks, Atkinson & Sons Pty. Ltd.
*2502	2 in. x 6 yds.	„	250 „	do.	0 1 8	
*2503	1 in. x 6 yds.	„	100 „	do.	0 0 10	
*2504	Bandages, Open Wove, Roller— 3 in. x 6 yds.	„	250 „	do.	0 1 9	} Henry Francis & Co.
*2505	2 in. x 6 yds.	„	150 „	do.	0 1 2	
*2506	1 in. x 6 yds.	„	100 „	do.	0 0 7	
*2507	Bandages, Calico, Triangular, in packets of 6 each	„	750 pkts.	packet	0 1 4½	
2508	Basins, Enamelled, 9 in.	6	each	..	Nil
2509	„ „ Kidney, 6"	U.K.	6	do.	0 0 11½	} Henry Francis & Co.
2510	„ „ „ 5"	„	6	do.	0 0 11	
*2511	Boracic Dusters 1-oz.	„	5 gross	dozen	..	Nil

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
AMBULANCE MATERIAL—continued.						
	Bottles—					
*2512	2-drm.	Japan	2 gross	gross	0 3 9	Felton, Grimwade & Co. Pty. Ltd.
*2512A	1-oz. (angular), poison	Vict.	5 "	do.	0 10 0	
*2513	1-oz. (square), clear glass	"	5 "	do.	0 9 6	
*2513A	2-oz. (angular), poison	"	2 "	do.	0 17 0	
*2514	2-oz. (square), clear glass	"	2 "	do.	0 16 6	
*2515	4-oz. (flat)	"	2 "	do.	1 2 6	Nil
*2516	8-oz. (flat)	"	2 "	do.	1 7 0	
*2517	Brushes, Camel Hair	"	5 "	do.	..	Nil
2518	Chloroform, 2-oz. bottles, hermetically sealed	"	10 bots.	bottle	..	Nil
2519	Collodion (bulk)	Vic.	5 lb.	lb.	0 3 11	Felton, Grimwade & Co. Pty. Ltd.
2520	Chloride of Lime (1-lb. bottle)	U.K.	20 "	do.	0 0 10½	
2521	Diarrhoea Mixture (1-lb. bottle)	Vict.	20 "	bottle	0 3 0	Henry Francis & Co.
2522	Embrocation, Elliman's	U.K.	5 "	lb.	0 8 4	
*2523	Eye Droppers	Japan	2 doz.	dozen	0 3 3	Felton, Grimwade & Co. Pty. Ltd.
*2524	Eye-shades (celluloid) Left	U.K.	25	each	0 0 1½	
*2525	" " Right	"	25	do.	0 0 1½	Warner and Webster
*2526	Eye Baths, Glass	Germany	1 doz.	dozen	0 4 6	
*2527	Forceps, Artery, N.P.	"	12 pairs	pair	0 1 9½	Henry Francis & Co.
*2528	" Splinter	U.K.	35 "	do.	0 1 0	
†2529	Gauze, Plain (Butter Cloth)	"	3,000 yds.	dozen yards	0 1 10½	Denyers Pty. Ltd.
2530	" compressed (in 1-yd. packets)	"	1 gross	dozen pkts.	0 2 3	
*2531	Glass, Medicine	"	2 doz.	each	0 0 4	Felton, Grimwade & Co. Pty. Ltd.
2532	Ginger, Tincture of (bulk), B.P.	Vict.	15 lb.	lb.	0 6 10	
2533	Glycerine	"	3 "	do.	0 1 9	
2534	Iodine Crystals	U.K.	5 "	do.	1 4 6	
*2535	Jaconette	"	12 yds.	yard	0 1 11	
	Jars, Screw-top—					
*2536	1-lb., square	Vict.	3 gross	dozen	0 2 9	Felton, Grimwade & Co. Pty. Ltd.
*2537	½-lb., square	"	3 "	do.	0 2 2	
2538	Mason, quarts	"	2 doz.	do.	0 7 0	
	Lint—					
2539	1-oz. packets, plain	U.K.	2 gross	dozen pkts.	0 2 0	Hicks, Atkinson & Sons Pty. Ltd.
2540	1-lb. packets, plain	"	120 lb.	lb.	0 2 0	
2541	1-lb. packets, borated	"	25 "	do.	0 1 5	
2542	Lysol, or substitute, 1-lb. bottles	Vict.	30 lb.	lb.	0 1 3	Felton, Grimwade & Co. Pty. Ltd.
2543	Magnesia Sulphate	Germany	30 "	do.	0 0 1½	
*2544	Mugs, Enamelled, ½ pint, brand V.R. over AMB	"	10 doz.	dozen	..	Nil
2545	Merc. Pot. Iod. Tabs, 25 in bottle (gr. 1.75)	Vict.	2 "	bottle	0 0 7	Felton, Grimwade & Co. Pty. Ltd.
2546	Methylated Spirits (Pure)	"	16 gals.	gallon	0 4 9	
2547	Needles, Surgeons', 6 in packet, No. 9, half curved	U.K.	1 gross pkt.	packet	0 0 9	
2548	Oil, Olive (in 1-gallon tins)	"	10 lb.	lb.	..	Nil
2549	" Carbolic (bulk)	Vict.	25 "	do.	0 2 0	Felton, Grimwade & Co. Pty. Ltd.
2550	" Castor, pure (bulk)	U.K.	5 "	do.	0 1 6	
2551	Ointment, Boric (1-lb. pots)	Vict.	5 "	do.	0 2 5	
2552	Ointment, Zinc (in 1-lb. pots)	"	3 "	do.	0 3 0	
2553	Peroxide of Hydrogen (bulk), 1-gal. bottles	"	40 "	bottle	0 7 0	
	Plaster, Medical Tape—					
*2554	1 in. x 1 yd.	"	6 gross	dozen	0 1 8	Dunlop Perdriau Rubber Co. Pty. Ltd.
*2555	1 in. x 10 yds.	"	10 doz.	do.	0 12 0	
*2556	2 in. x 10 yds.	"	5 "	do.	1 0 0	
2557	Potash, Permanganate (bulk)	Germany	5 lb.	lb.	0 0 9	Felton, Grimwade & Co. Pty. Ltd.
*2558	Pins, Safety (12 on card)	U.K.	5 gross cards	dozen cards	0 0 8	
2559	Sal Volatile (bulk)	Vict.	40 lb.	lb.	0 5 9	Felton, Grimwade & Co. Pty. Ltd.
*2560	Scalpels	Germany	6	each	0 1 7	
*2561	Scissors, Surgeons', 5-in.	U.K.	1 gross	dozen	0 17 0	Warner & Webster
2562	Soda, Bi. Carb.	"	20 lb.	lb.	0 0 2	
						Felton, Grimwade & Co. Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
AMBULANCE MATERIAL—continued.						
2563	Silk Cards, Assorted	U.K.	1 gross	dozen	0 13 6	Warner & Webster
2564	„ Oiled, 45 in. wide	„	5 yds.	yard	0 3 9	Denyers Pty. Ltd.
2565	Soap, Carbolie, bars	Vict.	8 lb.	lb.	0 1 4	Felton, Grimwade & Co. Pty. Ltd.
*2566	Snake-bite Antidote, Lauder Brunton's (metal tubes)	U.K.	5 doz. tubes	tube	0 0 10½	Warner & Webster
*2567	Stalls, Finger	„	„	gross	„	Nil
2568	Sulph. Soda	Vict.	20 lb.	lb.	0 0 2	Felton, Grimwade & Co. Pty. Ltd.
	Stoppers (red rubber), Soft—					
*2569	No. 2	„	3 gross	gross	0 5 6½	Dunlop Perdreau Rubber Co. Ltd.
*2570	No. 3	„	5 „	do.	0 6 1½	
*2571	No. 4	„	10 „	do.	0 6 10½	
*2572	No. 5	„	7 „	do.	0 7 1½	
*2573	No. 6	„	5 „	do.	0 8 1½	Felton, Grimwade & Co. Pty. Ltd.
2574	Vaseline, 5-lb. tins	U.S.A.	20 lb.	lb.	0 1 8	
	Wool, Surgeons', plain—					
*2575	1-oz. cartons	U.K.	5 gross	dozen	0 1 5	Hicks, Atkinson & Son.
*2576	4-oz. „	„	6 doz.	do.	0 4 4	Pty. Ltd.
*2577	1-lb. „	„	500 lb.	lb.	0 1 1	Denyers Pty. Ltd.
2578	Cocaine, 1 per cent., in 1-oz. bottles	Vict.	5 bots.	bottle	0 1 6	Henry Francis & Co.
2579	Chloretone, in 1-oz. bottles	„	10 „	do.	0 1 6	Felton, Grimwade & Co. Pty. Ltd.
2580	Calamine Lotion	„	5 lb.	lb.	0 1 4	Henry Francis & Co.
2581	Ethyl Chloride, in tubes of 100 c.c.	„	1 „	tube	0 10 6	
2582	Esserine Sulph., 5 per cent., 1 oz. bottles	„	1 doz.	bottle	0 9 0	Felton, Grimwade & Co. Pty. Ltd.
2583	Homatropine and Cocaine, 2 per cent., Mur., in Aqua Chloretone, in 1-oz. bottles	Vict.	24 bots.	„	0 4 6	
2584	Pulv. Soda Pot. Tart.	U.K.	3 lb.	lb.	0 1 2	Felton, Grimwade & Co. Pty. Ltd.
2585	Red Lotion, 5 per cent.	Vict.	3 „	do.	0 1 3	
2586	Tubes, Test, 5" x ¾"	Germany	1 gross	dozen	0 1 0	Henry Francis & Co.
2587	Ung. Hydrarg. B.P.	Vict.	10 lb.	lb.	0 5 0	
2588	Electric Bulb for Ophthalmoscope (May's) ..	Germany	1 doz.	each	0 3 3	Henry Francis & Co.
2589	} Nil					
2599						

TELEGRAPH AND TELEPHONE MATERIAL.

(1.10.1930 to 30.9.1932.)

SPECIFICATION FOR COPPER TAPES AND BINDERS.—Items Nos. 2675 and 2602.

The tapes and binders shall be made of pure soft electrolytic copper wire of good quality.

The tapes and binders shall be of the dimensions given in Tables 1 and 2. The binders shall be flattened uniformly at each end.

After rolling, both tapes and binders shall be re-annealed soft and shall be free from scale. The ends of both tapes and binders shall be smooth and free from burrs.

The elongation test will be made by gripping a sample in an elongation machine and steadily elongating the sample until it breaks. The duration of the test shall be approximately 30 seconds. The elongation shall be measured after fracture, and shall comply with the figures given in Tables 1 and 2.

The tapes and binders shall be supplied in separate bundles of 100 each

TABLE 1.
TAPES.—(Item No. 2675.)

1	2	3	4	5	6	7
Designation.	Approximate Weight per Mile of Wire used for Manufacture.	Length.	Width.	Thickness.	Minimum Elongation per cent. on 5 inches.	Approximate Number to the pound (lb.).
Tapes, Copper, No. 3	lb. 150	inch. 9	inch. ¼	inch. 0.026	25	53

TABLE 2.
BINDERS.—(Item No. 2602.)

1	2	3	4	5	6	7	8
Designation.	Length.	Length of middle portion.	Diameter of middle portion variation not to exceed 0.0002 inch.	Width of Flats.	Thickness of Flats.	Minimum Elongation per cent. on the middle 10 inches.	Approximate Number to the pound (lb.).
Binders, Copper, No. 3	inches. 20½	inches. 7	inch. 0.112	inch. ⅜	inch. 0.056	20	17

TELEGRAPH AND TELEPHONE MATERIAL—continued.

SPECIFICATION FOR COPPER JOINTING SLEEVES.—Items Nos. 2665 and 2666.

The sleeves shall be made of pure soft electrolytic copper.

The sleeves shall conform to the particulars given in the Table.

The sleeves shall be solid drawn, annealed, clean and bright inside, and the ends shall be free from burrs.

Two copper wires of the maximum size shown in Column 2 of the Table will be inserted through the whole length of the sleeve. The sleeve and wire will then be fixed in two close-fitting jointing clamps $\frac{1}{8}$ inch wide, the outer edges of which shall be flush with the ends of the sleeve. These clamps will be revolved in opposite directions, and the sleeves shall withstand without cracking or breaking the specified number of twists shown in Column 6 of the Table.

The Contractor, if required, shall submit not less than ten sleeves of each size for approval before the bulk of the order is proceeded with.

The sleeves shall be supplied neatly packed in boxes, each containing 100 sleeves. Each box shall be labelled to show the quantity and description of the contents.

TABLE.

1	2		3	4	5		6
Designation.	Diameter of Wire for which Sleeve is required.		Length of Sleeve.	Thickness of Metal.	Minimum Internal Dimensions.		No. of Twists.
	Minimum.	Maximum.			Major Axis.	Minor Axis.	
	inch.	inch.	inch.	inch.	inch.	inch.	
Sleeves, Copper—							
No. 5 (long), for 200-lb. Wire ..	.111	.113	5	.026	.234	.116	6
No. 6 (long), for 160-lb. Wire ..	.096	.098	4½	.022	.204	.101	6

The tests set out in the Australian Commonwealth Engineering Standards Association Specification Nos. C.3-11, 1925, will be carried out by the Corporation at its Testing Laboratory in Melbourne, and the Contractor will be notified in sufficient time of the intention to carry out such test to enable him or his representative to be present if he so desires.

SPECIFICATION FOR DRY CELLS.—Item No. 2608.

The cells are required for light, intermittent service, such as telephone operation, bell ringing and similar work.

The cells shall be approximately 2 $\frac{1}{2}$ inches in diameter by 6 inches long and shall be fitted with two screwed brass terminals fixed in an approved manner to the electrodes.

The Tenderer must submit with his tender two sample cells.

The sample cells or any cells delivered by the Contractor may be tested in the following manner:—

Cells will be discharged at a constant current of 20 milliamperes for 6 hours per day and 5 days per week, until the voltage of the cells on open circuit falls below 1 volt or the internal resistance (measured by approved method) exceeds 2 ohms.

At this rate of discharge the capacity of the cells must not be less than 35 watt hours.

Any of the cells delivered may be subjected to the following further tests:—

(a) The open circuit voltage will be measured on a voltmeter of approved pattern having a resistance of not less than 100 ohms. The voltage measured in this way shall not be less than 1.45 in the case of a new cell.

(b) The current output at the expiration of one minute will be measured through a resistance of 3 ohms, including the resistance of the meter. It shall not be less than 450 milliamperes in the case of a new cell.

The readings of current and voltage after the cells have been stored for two years shall not fall more than 20 per cent. below guarantees for new cells.

Should five per cent. of the cells delivered fail to comply with the requirements of the Specification or with the guarantees as to voltages and current referred to above, the whole consignment may be rejected.

The Cells shall be branded "The property of the Victorian Railways Commissioners," and method of branding to be adopted shall be stated by the tenderer in the tender.

The Corporation undertakes to order from the Contractor during the contract period at least the full estimated requirements, provided the Cells supplied are in accordance with this specification, and satisfactory service is rendered by the contractor.

SPECIFICATION FOR CARTRIDGE FUSES, 250 VOLTS, 0-30 AMPERES.—Items Nos. 2628 to 2637.

Fuses shall be 2 inches long and $\frac{1}{8}$ inch diameter across the ferrules. They shall be constructed to fit in standard fuse clip.

Fuse wire shall be well soldered to brass ferrules. Brass ferrules shall be firmly attached to cartridge

Fuses shall be so constructed that—

(a) With an atmospheric temperature of 24° C. they will carry indefinitely 110 per cent. current without causing the tubes to char or externally visible soldering connexions to melt.

(b) With atmospheric temperature between 18° C. and 32° C. fuses shall, starting cold, blow on 150 per cent. current without causing the tubes to char or soldered connexions to melt within the specified time:—For 0-30 amperes—1 minute.

Rating of fuse shall be plainly stamped on cartridge. Cartridge shall have a label, the colour of which shall be green, for 250 volts, on which shall be marked the name of the manufacturer and the rating of the fuse.

SPECIFICATION FOR PORCELAIN INSULATORS.—Items Nos. 2642 and 2643.

The term "parcel" shall mean any quantity of finished insulators presented for examination and test at any one time.

The drawing referred to in this Contract is Victorian Railways A.405.

The insulators shall be made of highly vitrified glazed porcelain.

The insulators shall be glazed all over excepting the thread and the head or the edge of the outer petticoat, which may be left unglazed.

The insulators shall be in accordance with the drawing referred to, and this drawing shall form a part of this Specification. The Receiving Officer shall have the right to measure any number of insulators in any parcel.

The insulators and the glazing shall be free from cracks, blow holes, nodules, excrescences, or other defects. They shall be uniform in texture throughout, non-porous, with smooth exterior and interior surfaces, and shall be finished in accordance with the best commercial practice.

TELEGRAPH AND TELEPHONE MATERIAL—continued.

The thread shall be in accordance with the drawing referred to, well centered, smooth, of uniform pitch, and such that the standard gauge shown in the drawing can be easily screwed into the insulator up to the crown. When in position on the specified standard gauge the insulator shall not be noticeably loose nor show a perceptible amount of play or rocking.

Any number of insulators from any parcel may be tested in the following manner:—

The insulator shall be inverted and immersed in acidulated water to within a quarter of an inch of the lip of the outer petticoat, and filled with acidulated water to within a quarter of an inch on both sides of the lip of the inner petticoat.

While so immersed, and after 72 hours' immersion, each insulator shall be tested with an electro-motive force of 400 volts, and shall have an insulation resistance of 100,000 megohms in the case of No. 1 insulator and 10,000 megohms in the case of No. 2 insulator when tested (a) across the inner petticoat and (b) across the outer petticoat respectively.

The Receiving Officer may test any number of insulators from any parcel. If after the examination and testing of any parcel of insulators, five (5) per centum out of any such insulators do not meet the requirements of this Specification, the whole parcel shall be rejected, and no such parcel or any part thereof shall on any account be again presented for examination and testing; and this stipulation shall be deemed to be and treated as an essential condition of the Contract.

The insulators shall be delivered securely and properly packed in good, strong cases, each containing 100 insulators. Each case shall be branded with the Order No. and contents.

SPECIFICATION FOR 6-VOLT AND 13-VOLT 2½-WATT SIGNAL LAMPS.—Items Nos. 2648 and 2649.

Bulb shall not exceed the following dimensions:—

Base of lamp to tip of bulb—3½ inches.

Diameter of bulb—1½ inches

Centre of filament must be between 2½ inches and 2⅞ inches above base of lamp.

Edison medium screw base to be provided.

Burning life of lamps at rated voltage to be not less than 2,000 hours.

SPECIFICATION FOR No. 2 POROUS POTS.—Item No. 2661.

Carbon plate shall be of the best carbon and shall reach the bottom of pot.

Brass terminal shall be fixed to top of carbon in approved manner so as not to become loose or detached in service.

Contents of cell shall be not less than 350 grams and to consist of equal parts of manganese dioxide and crushed carbon.

Particles shall be of a uniform size and intimately mixed.

The tops of the porous pots shall be sealed up in the usual manner with best pitch to a thickness of ¼ inch and perforated by a tube to allow the escape of gases generated in the cell.

The tops of the cells complete (excepting only the terminal) shall be dipped into a mixture of paraffin wax and ozokerite to within half an inch below the top of the porous pot.

Maker's name shall be branded on porous pot.

Tenderers shall submit with their tenders (2) sample pots for testing purposes.

Pots shall be sufficiently porous to pass the following tests:—Pots shall be filled with water to a depth of 4½ inches and water maintained at this level for 24 hours with suitable precautions against evaporation. At the end of this period not less than 50 cubic centimeters of water shall have passed through the pot.

Alternative tenders will be considered for positive elements of the air depolarizing type and if satisfactory these may be accepted. They shall comply with above Specification in so far as it applies.

MOUTHPIECES.—Item No. 2651.

All mouthpieces shall be of the metal thread type.

As regards Items Nos. 2602 and 2675 the rates are based on Electrolytic Copper Wire Bars at £53 per ton, as published in the *Argus* newspaper on the 21st July, and are to be varied up or down by one-tenth of a penny per lb. of copper for each complete 17s. 6d. or part thereof, by which the price of wire bars published in the *Argus* on the date of receipt of an order is greater than £53 12s. 5d. per ton or less than £52 15s. per ton respectively. If no price of wire bars is published on any day, the price last published earlier shall apply. In the event of a dispute concerning the published price of wire bars, the figures advised by the Australian Mines and Metals Association as last received by them from the London Metal Exchange prior to the day of the receipt of the order shall be mutually accepted.

As regards Items Nos. 2665 and 2666 the rates are based on Electrolytic Copper Wire Bars at £53 per ton, and the prices will vary at the rate of 4d. per 1,000 for the No. 5 sleeves and 3d. per 1,000 for the No. 6 sleeves, for each complete £1 that the price of Electrolytic Copper Wire Bars varies from £53 on the date of receipt of an order.

Times for delivery—

British General Elec. Co. Ltd. and Australian General Elec. Co. Ltd.—For Item No. 2613, to be allowed sufficient time for importation to meet initial orders.

British Ins. Cables Ltd.—If Company cannot supply from stocks held, three to six weeks to be allowed for delivery.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
†2600	Bells, Extension, Magneto type, mounted— 2,500 ohms	N.S.W.	13	each	1 6 0	C. R. Foster
†2601	1,000 ohms .. .. .	..	6	do.	..	Nil
*2602	Binders, Copper, to Specification No. 3	N.S.W.	1,000	lb.	0 1 4.7	British Insulated Cables Ltd.
†2603	Buzzers, Bell, 2½ x 2½, 10 ohms .. .. .	..	14	each	..	Nil

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
TELEGRAPH AND TELEPHONE MATERIAL—continued:						
2604	Nil.					
*2605	Caps, Ebonite, for Auto. Coy's. Receivers ..	..	5	each	..	Nil
*2606	Cases, Brass, Ebonite covered, for W.E. Receivers ..	..	80	do.	..	
*2606A	„ Ebonite, for W.E. Receivers ..	..	5	do.	..	
*2607	„ Brass, Ebonite covered, for Kellog Receivers ..	..	5	do.	..	
*2607A	„ Ebonite, for Kellog Receivers ..	..	10,000	do.	0 1 6	Widdis Diamond Dry Cells Pty. Ltd.
*2608	Cells, Dry, to Specification, to be branded "The property of the Victorian Railways Commissioners"	Vict.				
2609	Nil.					
†2610	Coils, Induction—Standard Magneto type ..	N.S.W.	3	do.	0 3 9	C. R. Foster
†2611	For Selector Telephones, Special ..	..	2	do.	0 19 0	
†2612	Coils, Telephone, Repeating, balanced, small, 4 windings ..	Vict.	2	do.	2 5 0	McKenzie & Holland (Aust.) Pty. Ltd. Australian General Elec. Co. Ltd.
*2613	Clips, Universal, Insulated, Test ..	U.S.A.	50 pairs	dozen pairs	2 14 0	
Condensers—						
*2614	Self-sealing, $\frac{1}{2}$ M.F., No. 36 ..	..	30	each	..	Nil
*2615	2 M.F., approx. 5" x 2" x $\frac{1}{8}$" ..	..	50	do.	..	
*2616	25 M.F. ..	..	25	do.	..	
*2616A	1 M.F., approx. 5" x 2" x $\frac{1}{8}$" ..	..	25	do.	..	
Cords—						
†2617	Transmitter, 3-way, Auto. ..	..	25	do.	..	British General Elec. Co. Ltd.
†2618	Receiver, 2-conductor, 30" ..	U.K.	25	do.	0 1 1 $\frac{1}{2}$	
†2619	„ for Auto. Coy's. Table Telephones ..	..	13	do.	..	Nil
†2620	Switchboard, 5' long, 3-conductor, to fit Kellog plugs ..	..	25	do.	..	
†2621	Switchboard, 4' 6" long, 2-conductor, Red ..	U.K.	20	do.	0 2 5	British General Elec. Co. Ltd.
†2622	„ 4' 6" long, 2-conductor, White ..	„	6	do.	0 2 5	
†2623	Diaphragms for Receivers, 2 $\frac{1}{2}$ " diameter ..	N.S.W.	15	dozen	0 2 6	C. R. Foster
*2624	Discs, Enamel, numeral 1 to 0, to fit Auto. Coy's. calling devices ..	..	13	each	..	
Receiver Caps—						
*2625	Brass, Ebonite covered, for W.E. Receivers ..	..	25	do.	..	Nil
*2625A	Ebonite, for W.E. Receivers ..	..		do.	..	
*2626	Brass, Ebonite covered, for Kellog Receivers ..	..	13	do.	..	
*2626A	Ebonite, for Kellog Receivers ..	..		do.	..	
2627	Fittings, G.E. 805, with Hangers, complete ..	U.S.A. & Vict.	20	do.	1 5 0	Australian General Elec. Co. Ltd.
Fuses, Cartridge, 250 volts, Non-renewable—						
2628	$\frac{1}{2}$ amp. ..	..	150	do.	..	Nil
2629	3 „ ..	..	3,000	do.	..	
2630	6 „ ..	..	550	do.	..	
2631	8 „ ..	..	110	do.	..	
*2632	10 „ ..	..	550	do.	..	
2633	12 „ ..	..	50	do.	..	
2634	15 „ ..	..	50	do.	..	
2635	20 „ ..	..	225	do.	..	
2636	25 „ ..	..	50	do.	..	
2637	30 „ ..	..	50	do.	..	
*2638 to 2641	Nil.					
Insulators, Porcelain, to Specification and Drawing A.405—						
2642	No. 1 ..	Victoria	10,000	do.	0 1 1	Sunshine Porcelain Potteries Pty. Ltd.
2643	No. 2 ..	„	500	do.	0 0 5	
2644 to 2646	Nil.					
†2647	Jacks, Operators', 4-point ..	U.K.	3	do.	0 2 6	British General Elec. Co. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
TELEGRAPH AND TELEPHONE MATERIAL—continued.						
†2648	Lamps, 6-volt, 2½-watt, to Specification	..	1,125	each	..	} Nil
†2649	Lamps, 13-volt, 2½-watt, to Specification	..	38	do.	..	
†2650	„ for Hand Torches .. ..	..	1,150	100	..	
*2651	Mouthpieces— Metal Thread for W.E. Telephones ..	U.K.	400	each	0 0 9	C. R. Foster
	Pins, Queensland, Galvanized, to Drawing No. F.1465—					
†2652	Large, No. 3	Victoria	4,500	1,000	34 17 6	} McPherson's Pty. Ltd.
†2653	Small, No. 4	„	1,000	do.	29 19 6	
†2654	Pins, Telegraph, Blue Gum Timber to Drawing I.F.2459, amended	„	15,000	do.	4 5 0	Chief Mechanical Engr.
	Pins, Insulator, Galvanized, with Pat. B. Lead Head—					
*2655	Straight, ½" coach screw end ..	„	250	each	0 0 3½	} Noyes Bros. (Melb.) Pty. Ltd.
*2656	„ ¾" coach screw end ..	„	50	do.	0 0 6½	
*2657	Goose Neck, ½"	„	550	do.	0 0 3.45	McPherson's Pty. Ltd.
	Plugs—					
†2657A	Operators' 4 point (to fit Item 2647) ..	U.K.	3	do.	0 3 3	British General Elec. Co. Ltd.
†2658	3-conductor, "Kellog"	„	13	do.	..	} Nil
†2659	2-conductor, "Kellog"	„	25	do.	..	
†2660	2-conductor, W.E.	„	50	do.	..	
†2661	Pots, Porous, Leclanche, to Specification ..	„	..	do.	..	See Item No. 2661A
†2661A	Carbons, A.D., No. 245	France & Vict.	2,500	do.	0 1 9	McKenzie & Holland (Aust.) Pty. Ltd.
	Receivers—					
†2662	Polarized Bell Type, .. ..	..	25	do.	..	} Nil
†2663	Electro-magnetic Bell Type .. ..	..	3	do.	..	
*2664	Rods, Stay, Galvanized, with eye, nut, and washer	Victoria	250	do.	0 2 2	McPherson's Pty. Ltd.
†2664A	Rods, Stay, Galvanized, 5½" diameter screw and ¾" rod with eye end, 5' long, for special purposes	„	100	do.	..	Nil
	Sleeves, Jointing, Copper, to Specification—					
2665	No. 5 (long)	N.S.W.	3,000	1,000	5 12 6	} British Insulated Cables Ltd.
2666	No. 6 „	„	3,000	do.	4 15 10	
	Steel, Silver—					
2667	1½"	U.K.	6 bars	dozen	0 0 5	} James Walker
2668	1"	„	14 "	do.	0 0 9	
2669	¾"	„	10 "	do.	0 1 7	
†2670	½"	„	60 "	do.	0 2 9	
2671	3/8"	„	28 "	do.	0 4 8	
2672	¼"	„	12 "	do.	0 6 8	
	Telephones—					
†2673	Table type Magneto .. ..	..	13	each	..	} Nil
†2674	„ „ Automatic .. ..	..	25	do.	..	
*2675	Tapes, Copper, to Specification, No. 3 ..	N.S.W.	750	lb.	0 1 3.7	British Insulated Cables Ltd.
†2676	Transmitters, solid back, for Magneto Wall Telephones	U.K.	3	each	0 10 6	British General Elec. Co. Ltd.
2677 to 2682	Nil					

ENGRAVING PERIODICAL TICKETS.

(1.10.30 to 30.9.31.)

The tenderer shall state the address of his factory or works where the engravings will be performed.

The "Engravings" shall consist of the refilling of the existing name, &c., and engraving such words and figures as may be ordered.

The tickets for engraving will be delivered to the Contractor at the office of the Auditor of Receipts in the Flinders-street Railway Building, and when engraved, they shall be delivered by the Contractor to the Auditor of Receipts. In the event of any tickets being spoilt or damaged whilst in the possession of the Contractor the value as assessed by the Comptroller of Stores shall be reimbursed to the Corporation by the Contractor.

In addition to the deposit lodged as security for the due performance of the Contract, the successful Tenderer shall lodge a further deposit of £5 as security for the safe return of the Gold and Silver Tickets delivered to him for engraving.

The rate quoted shall include any repairs required in connexion with the tickets.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ENGRAVING PERIODICAL TICKETS— <i>continued</i> .						
2683	Engravings (comprising refilling of the existing words and figures on tickets furnished by the Corporation, and engraving thereon, such other words and figures as may be ordered)	Victoria	825	Engraving on each Ticket	0 1 9	Harold A. Jones
2684 to 2685	Nil.					

ACETYLENE, CARBONIC ACID GAS, AND OXYGEN.
(1.10.30 to 30.9.31.)

ACETYLENE.

The service comprises the supply and delivery as ordered in the manner herein specified in steel cylinders, where directed at Flinders-street Station or elsewhere, of purified compressed Acetylene dissolved in acetone.

The Acetylene must be pure and dry.

The Acetylene shall contain not more than .05 per cent. Phosphine.

Acetone must be genuine, free from all impurities, and when fully charged the quantity of acetone must be such that it does not completely fill the voids of the porous substance in the cylinder at a temperature of 150° Fahrenheit.

The Acetylene will be submitted to the following test. Cylinders for testing may be selected from each delivery :—

When the Acetylene is played for 40 seconds on a piece of Blotting-paper saturated with a 5 per cent. solution of silver nitrate in water, the Blotting paper shall not discolour.

The rate inserted for Acetylene supplied in the Departmental cylinders shall include the maintenance of the cylinder valves, also re-acetoning of cylinders as required. The bulk of the Acetylene under Items Nos. 2686 and 2687 shall be supplied in cylinders containing six (6) kilogrammes of Acetylene, but a small proportion of small cylinders may be used.

The weight of the cylinder, valve, and acetone must be shown separately on each cylinder.

The empty cylinders will be returned to Contractor at Spencer-street or Flinders-street Station

CARBONIC ACID GAS.

The empty Carbonic Acid Gas cylinders will be returned to the Contractor at the Ice Works, Spencer-street Station Yard, or Metropolitan Receiving Depot.

OXYGEN.

The Oxygen shall consist of gas compressed in cylinders to a pressure of not less than 120 atmospheres.

The Compressed Oxygen Gas shall be supplied in cylinders containing six (6), twenty (20), forty (40), one hundred (100), or two hundred (200) cubic feet as ordered.

Oxygen taken from such cylinders comprised in each and every delivery, as the Comptroller of Stores may select, shall, when tested, fulfil the foregoing requirements.

Samples of Oxygen taken from such cylinders comprised in each and every delivery, as the Comptroller of Stores may select, shall, when subjected to analysis, contain not less than 98 per centum of oxygen.

As regards Items Nos. 2686 to 2689A, provided satisfactory service is rendered the business should be equally divided, and orders should be allotted as under :—

Item No. 2686.—Equally divided.

Item No. 2687.—Requirements of Newport Workshops ; Signal and Telegraph Branch ; and Ballarat North Workshops, shall be ordered on Gardner, Wearn & Co., and the balance of requirements on Allen-Liversidge (Aust.) Ltd.

Items Nos. 2688 and 2689.—Shall be ordered on Allen-Liversidge (Aust.) Ltd.

Both Contractors shall furnish quarterly a statement of Residual Gas obtained from cylinders returned and credit the Department with the value of same.

As regards Items Nos. 2691 and 2691A, provided satisfactory service is rendered, the business should be divided in the following proportion, viz. :—75 per cent. to the Australian Oxygen & Industrial Gases Pty. Ltd., and 25 per cent. to the Oxygen Service & Manufacturing Co. Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ACETYLENE, CARBONIC ACID GAS, AND OXYGEN—continued.						
As regards cylinders of Australian Oxygen & Industrial Gases Pty. Ltd., if any cylinders be not returned within six months, and if claim be made, a deposit will be lodged by the Corporation, which shall be refunded by the Contractor on the return of such cylinders to the Contractor in good order and condition, and that in the event of any cylinders or cylinder valves being damaged whilst in the possession of the Corporation, the Corporation will bear the cost of any repairs or replacements of such damage provided the charge is reasonable.						
As regards Item No. 2690, the Contractor shall have the right to test before refilling with Carbonic Acid Gas any cylinders the property of the Corporation that have not previously been tested for a period of two years, and the cost of such test at 3s. 6d. per cylinder will be borne by the Corporation.						
2686	Acetylene, Compressed, purified— In Departmental Cylinders	Victoria	750 lb.	lb.	0 2 1	Gardner, Waern & Co. Pty. Ltd.
2686A	In Departmental Cylinders	"		do.	0 2 1	Allen-Liversidge (Aust.) Ltd.
2687	In Cylinders supplied by the Contractor ..	"	40,000 "	do.	0 2 2	Gardner, Waern & Co. Pty. Ltd.
2687A	In Cylinders supplied by the Contractor ..	"		do.	0 2 2	Allen-Liversidge (Aust.) Ltd.
2688	Acetylene, in Cylinders of 100 c. ft. capacity, suitable for Departmental flares in use at Overhead Depots	"	1,000 "	do.	0 2 2	Gardner, Waern & Co. Pty. Ltd.
2688A	Acetylene, in Cylinders of 100 c. ft. capacity, suitable for Departmental flares in use at Overhead Depots	"		do.	0 2 2	Allen-Liversidge (Aust.) Ltd.
2689	Acetylene, in Cylinders of 50 c. ft. capacity, suitable for Departmental flares in use at Overhead Depots	"	1,250 "	do.	0 2 2	Gardner, Waern & Co. Pty. Ltd.
2689A	Acetylene, in Cylinders of 50 c. ft. capacity, suitable for Departmental flares in use at Overhead Depots	"		do.	0 2 2	Allen-Liversidge (Aust.) Ltd.
2690	Gas, Carbonic Acid, in steel cylinders, containing 56 lb. of gas each	"	12,000 "	do.	0 0 3½	Australian Oxygen & Indust. Gases Pty. Ltd.
2691	Oxygen, not less than 98 per cent (99 per cent. or over)	"	2,500,000 c. ft.	100 c. ft.	0 3 3	Australian Oxygen & Indust. Gases Pty. Ltd.
2691A	Oxygen, not less than 98 per cent. (99·3 per cent.)	"		do.	0 4 0	Oxygen Service & Manfg. Co. Pty. Ltd.
2692 to 2694	Nil					—

APPENDIX "E."

BENZOL.

SPECIFICATION N.4.—Item 1501.

Scope.—This Specification covers the grade of spirit required for use in Rail Motors.

Manufacture.—The Benzol shall be a pure aromatic hydro-carbon.

Properties and Tests.—The Benzol shall be entirely free from mineral acid, alkali, water, and suspended matter, and in other respects shall comply with the conditions mentioned hereunder:—

Colour.—The Benzol shall be water white.

Distillation.—Ninety-six per cent. (96%) of the Benzol shall distil at the temperature of boiling water; final temperature 250 degrees Fahr. The residue shall not show acid reaction.

Doctor Test.—The doctor test shall be negative.

Sulphur.—The sulphur content shall be as low as possible.

Specific Gravity.—The specific gravity of the Benzol at 60 degrees Fahr. shall be ·879–·883.

Freezing Point.—The maximum freezing point of Benzol at 3° C. shall equal 37·4° F.

Freezing Point of a mixture of Benzol and 20% C.O.R. at 4·8° C. shall equal 23·4° F.

The Corporation reserves the right to submit deliveries of Benzol to any additional test or tests which it deems necessary.

APPENDIX "E."—BENZOL—*continued.*

Sampling.—The samples shall be collected from the first and last discharge of the Benzol from the tank wagon. Intermediate samples from the flow will be selected as required.

Method of Testing.—The sample shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Lubricating, Illuminating, and Fuel Oils."

* Spontaneous ignition will be determined in the V.R. Laboratory Apparatus, designed on lines similar to Professor Moore's Apparatus. See J.S.C.I., XXXVI., 109, 1917.

APPENDIX "F."

VARNISHES.

CARRIAGE VARNISH.—SPECIFICATION D.1.—*Items Nos. 1502 and 1503.*

The Varnish shall conform to the Tentative Australian Standards Specification for No. 1 Hard Drying Carriage Varnish No. K.14/1927 T., and No. 2 Durable Body Varnish No. K.15/1927 T.

COPAL VARNISH.—SPECIFICATION D.2.—*Item No. 1504.*

The Varnish shall conform to the Tentative Australian Standards Specification for No. 2 Hard Copal Varnish No. K.14/1927 T.

OAK VARNISH.—SPECIFICATION D.3.—*Item No. 1506.*

The Varnish shall conform to the Tentative Australian Standards Specification for No. 3 Oak Varnish No. K.14/1927 T.

GOLD SIZE.—SPECIFICATION D.4.—*Item No. 1507.*

I.—SCOPE.

This Specification covers the varnish known as Japanners' Gold Size or Japan Gold Size.

II.—MANUFACTURE.

The gold size shall be made from the best grades of hard varnish gums, pure linseed oil, and volatile thinners, with suitable driers.

III.—PROPERTIES AND TESTS.

The gold size shall be clear and transparent and free from suspended matter and adulterants. It shall contain no added rosin.

The gold size shall conform to the following requirements:—

The volatile thinner shall consist of Genuine Turpentine or Mineral Turpentine, or a mixture of both.

Drying Test.—Shall set to touch in from 15 to 30 minutes when maintained at 70° F. in dust-free atmosphere.

IV.—SAMPLING AND TESTING.

One unopened package shall be taken at random from each delivery.

The gold size shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Paint Materials."

JAPAN BLACK.—SPECIFICATION D.5.—*Item No. 1508.*

I.—SCOPE.

This Specification covers the varnish known as Japan Black.

II.—MANUFACTURE.

The japan shall be made from pure, best quality asphaltum, pure linseed oil, and volatile thinners, with suitable driers.

III.—PROPERTIES AND TESTS.

The japan shall be free from adulterants, and shall contain no added rosin.

The japan shall conform to the following requirements:—

The volatile thinner shall consist of Genuine Turpentine or Mineral Turpentine, or a mixture of both.

Drying.—Shall set to touch in from 1½ to 2½ hours and shall dry hard in less than 20 hours when maintained at 70° F. in dust-free atmosphere. The film must be perfectly smooth and of full body.

Toughness.—Film on metal must stand rapid bending over a rod 3 mm. (¼ inch) in diameter.

Stoving.—When stoved at 400° F. the japan shall show no signs of discolouration, burning, blistering, or cracking, and the film shall be sufficiently elastic to allow of being bent at right angles without cracking.

When rubbed vigorously with the ball of the finger the film shall show no signs of "Rubbing" or "Dusting."

Working Properties.—The japan must have good brushing, flowing, covering, and levelling properties.

APPENDIX "F."—JAPAN BLACK—*continued*.

IV.—SAMPLING AND TESTING.

One unopened package shall be taken at random from each delivery.

The japan shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Paint Materials."

LIQUID JAPAN DRIER.—SPECIFICATION D.6.—*Item No. 1509.*

I.—SCOPE.

This Specification covers the Liquid Japan Drier (containing gums) known as Terebinth.

II.—MANUFACTURE.

The drier shall be composed of lead, manganese or cobalt, or a mixture of any of these elements combined with a suitable fatty oil, varnish gums, and mineral spirits or turpentine or a mixture of these solvents.

III.—PROPERTIES AND TESTS.

The drier shall be clear and free from suspended matter and sediment.

It shall conform to the following requirements:—

Colour.—When mixed with eight parts by volume of raw linseed oil the resulting mixture shall be no darker than a solution of 6 grm. potassium dichromate in 100 c.c. of pure sulphuric acid of specific gravity 1.84.

The volatile thinner shall consist of Genuine Turpentine or Mineral Turpentine, or a mixture of both.

Mixing with Linseed Oil.—It shall mix with pure raw linseed oil in the proportion of 1 volume of drier to 19 volumes of oil without curdling.

Drying.—When mixed with 19 parts of raw linseed oil and flowed on glass, the film shall dry hard in not more than 18 hours, when maintained at 70° F. in dust-free atmosphere.

Baking.—When flowed on metal and baked for two hours at 100° C. (212° F.) the drier shall leave an elastic film.

IV.—SAMPLING AND TESTING.

One unopened package shall be taken at random from each delivery.

The drier shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Paint Materials."

PAPER VARNISH.—SPECIFICATION D.7.—*Item No. 1510.*

I.—SCOPE.

This Specification covers the spirit varnish known as Paper Varnish, used for varnishing maps and similar purposes.

II.—MANUFACTURE.

The varnish shall be made from the best quality Damar or other gums, digested cold in a suitable solvent. It shall be thoroughly settled.

III.—PROPERTIES AND TESTS.

The varnish shall be clear and free from suspended matter, and shall contain no rosin, mineral matter, or other adulterants.

It shall conform to the following requirements:—

Colour.—Water white.

Drying.—Shall set to touch in not more than 30 minutes, and shall dry hard and elastic when maintained at 70° F. in dust-free atmosphere.

Toughness.—Film on metal must stand rapid bending over a rod 3 mm. ($\frac{1}{8}$ inch) in diameter.

Working Properties.—Varnish must have good brushing, flowing, covering, and levelling properties.

IV.—SAMPLING AND TESTING.

One unopened package shall be taken at random from each delivery.

The varnish shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Paint Materials."

SPIRIT VARNISH.—SPECIFICATION D.8.—*Item No. 1511.*

I.—SCOPE.

This Specification covers varnishes known as Spirit Varnishes, both Brown and White.

II.—MANUFACTURES.

Spirit Varnish shall be made from hard varnish gums, digested cold in methylated spirits.

The order shall state whether White or Brown Varnish is required.

III.—PROPERTIES AND TESTS.

The varnish shall be clear and of satisfactory colour. It shall be free from suspended matter or sediment, and shall contain no rosin or other adulterants.

The varnish shall conform to the following requirements:—

Methylated Spirits.—Shall be at least 64 overproof.

Drying Test.—Shall set to touch in not more than 30 minutes, when maintained at 70° F. in a dust-free atmosphere.

APPENDIX "F."—SPIRIT VARNISH—*continued*.

IV.—TESTING AND SAMPLING.

One unopened package shall be taken at random from each delivery.

The varnish shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Paint Materials."

KNOTTING VARNISH.—SPECIFICATION D.9.—*Item No. 1512.*

I.—SCOPE.

This Specification covers the Spirit Varnish known as Knotting Varnish.

II.—MANUFACTURE.

Knotting Varnish shall be made of pure shellac, digested cold in methylated spirits.

III.—PROPERTIES AND TESTS.

The varnish shall be clear and free from suspended matter and sediment. It shall contain no added rosin or other adulterants.

The varnish shall conform to the following requirements :—

Methylated Spirits.—Shall be at least 64 overproof.

Drying Test.—Shall dry to touch in not more than 20 minutes when maintained at 70° F. in dust-free atmosphere.

IV.—SAMPLING AND TESTING.

One unopened package shall be taken at random from each delivery.

The varnish shall be tested according to the methods described in "Circular of the Australian Railways—Testing of Paint Materials."

FRENCH POLISH.—*Item No. 1513.*

To consist of pure orange shellac and 64 O.P. methylated spirits.

FRENCH POLISH, WHITE.—*Item No. 1514.*

To consist of finest bleached shellac and 64 O.P. methylated spirits.

SPECIFICATION FOR BLACK AIRDRYING VARNISH.—*Item No. 1515.*

General Particulars.—The varnish will be used for general work during the manufacture and repair of electrical machines and for the treatment of coils on parts too large to be baked.

Quality.—It shall be of the highest quality and manufactured from the best grades of varnish gums or asphaltum, pure linseed or tung oil, incorporated with suitable driers and thinners.

Properties and Tests.—It shall possess high penetrative power and yield a good body when applied with a brush or with a spray. The dried varnish should have a good mechanical strength and long life under unfavorable atmospheric conditions.

Drying Time and Flexibility.—A film of varnish on Japanese paper of 1 mil thickness shall set to touch in from three to six hours at a temperature of 20° C. When dry the film shall remain flexible and may be bent back on itself without cracking.

Dielectric Strength.—A film of varnish covering Japanese paper 1 mil to a thickness of 4 to 5 mils shall have when dry a dielectric strength of not less than 1,000 volts per mil.

Resistivity.—The varnish applied shall have a high resistance to the effects of water, oil, acids, and alkalis; and shall contain no free acids.

The Tenderer shall supply the following information :—

Specific gravity
Recommended thinning medium
Percentage of thinning medium
Dielectric strength
Drying period at 20° C.

Size of Containers.—Delivery shall be made in either four (4) or one (1) gallon containers as required.

Samples.—The Tenderer shall submit a sample of not less than half a gallon of the varnish which he proposes to supply. The Corporation may test samples selected at random to ascertain to what extent the material complies with this Specification or with the Tenderer's Specification.

VARNISH, INSULATING, QUICK AIRDRYING CLEAR.—TO SPECIFICATION.—*Item No. 1516.*

General Particulars.—The varnish shall be suitable for the treatment of coils of oil immersed transformers and other electric apparatus which are not capable of being baked.

Quality.—It shall be of the highest quality and be manufactured from the best varnish gums and pure linseed oil together with suitable driers and thinners.

Properties and Tests.—It shall possess high penetrative power and yield a good body when applied with a brush or spray.

Drying Time and Flexibility.—A film of varnish on Japanese paper 1 mil in thickness shall set to the touch in from four to eight hours at a temperature of 20° C. When dry the film shall remain flexible and may be bent back on itself without cracking.

Dielectric Strength.—A film of varnish covering Japanese paper 1 mil in thickness to a total thickness of 4 to 5 mils shall have, when dry, a dielectric strength of not less than 1,000 volts per mil.

APPENDIX "F."—VARNISH, INSULATING, ETC.—*continued.*

Resistivity.—The varnish shall have a high resistance to the effects of water, oil, acids, and alkalis and shall contain no free acid. Its resistance to the effect of hot transformer oil shall be determined by the length of time required for a film of varnish on a treated coil immersed in transformer oil at a temperature of 115° to 120° C. to show signs of sludging and disintegrating.

INFORMATION TO BE SUPPLIED.

The Tenderer shall supply the following information :—

Specific gravity
Recommended thinning medium
Percentage of thinning medium
Dielectric strength
Drying time at 20° C.

Size of Container.—The delivery shall be made in one (1) gallon containers.

Samples.—The Tenderer shall submit a sample of not less than half a gallon of the varnish which he proposes to supply. The Corporation may test samples selected at random to ascertain to what extent the material complies with this Specification or with the Tenderer's Specification.

INSULATING STOVING BLACK.—To SPECIFICATION (IN 4-GALLON TINS).—*Item No. 1517.*

General Particulars.—The varnish must be entirely suitable for the impregnation and insulation of armature and field coils of all types of motors, including traction motors with operating voltages up to 1,500 volts.

Quality.—It shall be of the highest baking quality and manufactured from the best grades of varnish gums or asphaltum, pure linseed oil or tung oil, incorporated with suitable driers and thinners.

Properties.—It shall possess penetrative power when applied with a brush or in conjunction with a vacuum impregnating plant. The varnish shall have a long life when maintained at an operating temperature of 90° C., and shall exhibit no sign of softening at temperatures under 110° C.

Drying Time.—A film of varnish on Japanese paper of 1 mil thickness shall set to the touch in from six to fifteen hours when stoved at a temperature of 90° to 95° C. When dry the film shall remain flexible and may be bent back on itself without cracking.

Dielectric Strength.—A film of varnish when covering Japanese paper 1 mil thick to a thickness of 4 to 5 mils shall have when dry a dielectric strength of not less than 1,000 volts per mil.

Resistivity.—The varnish supplied shall have a high resistance to the effects of water, oils, acid and alkalis, and shall contain no free acid.

The Tenderer shall furnish the following information :—

Specific gravity
Percentage of thinning medium
Recommended thinning medium
Dielectric strength
Baking period at 90° C.
Life when baked continuously at 90 degrees C.

Size of Containers.—Delivery shall be made in four (4) gallon containers.

Samples.—The Tenderer shall submit a sample of not less than half a gallon of the varnish which he proposes to supply.

The Corporation may test samples selected at random to ascertain to what extent the material supplied complies with this Specification or with the Contractor's Specification.

Samples.—The Tenderer shall submit a sample of not less than half a gallon of the varnish which he proposes to supply. The Corporation may test samples selected at random to ascertain to what extent the material supplied complies with this Specification or with the Contractor's Specification and samples.

APPENDIX "G."

DRYSALTERIES, CHEMICALS, ETC.

SPECIFICATION OF ACID, SULPHURIC, FOR STORAGE BATTERIES.—

Items Nos. 1580 to 1588.

The Sulphuric Acid shall comply with Australian Engineering Standards Association Specification C. 60.

SPECIFICATION FOR CALCIUM CARBIDE.—*Items Nos. 1600 to 1602.*

The Calcium Carbide required under these items shall be delivered in air-tight metal containers and shall be reasonably free from dust and fine particles.

The Calcium Carbide shall be reasonably free from deleterious or inert impurities, and when tested shall be of such purity that one kilogram (35.3 ounces avoirdupois) of the carbide, on the application of excess water thereto, shall yield not less than 250 litres (8.825 cub. ft.) of acetylene gas when collected over water saturated with sodium chloride and at temperature of 15.5 deg. C.

The acetylene gas obtained, as described in clause 3, shall be tested for purity when it shall contain over 99% by volume of acetylene gas (C_2H_2), and moreover, when further tested for phosphine gas (PH_3), shall contain not more than 0.05% by volume thereof.

APPENDIX "G."—DRYSALTERIES, CHEMICALS, ETC.—*continued.*

The Carbide supplied under Item 1600 shall be in lumps of the size known as 50/80 millimetres, and not less than 95% of the Carbide shall be of that size.

The Carbide supplied under Item 1601 shall be granulated, of the size known as 4/7 millimetres, and not less than 95% of the Carbide shall be of that size.

The Carbide supplied under Item No. 1602 shall be granulated of the size known as 7/15 millimetres, and not less than 95% of the Carbide shall be of that size.

SPECIFICATION FOR MURIATE OF AMMONIA.—*Items Nos. 1611 and 1612.*

GENERAL DESCRIPTION.—The material required under Item 1611 is Crystallized Ammonium Chloride (commonly termed Sal-Ammoniac or Muriate of Ammonia) containing not less than 99% NH_4Cl ; and that required under Item 1612 is tabloid Ammonium Chloride, NH_4Cl of the same purity.

STANDARD OF PURITY.—The material shall conform with the following requirements:—

- (a) The crystals and tabloids respectively shall be clean and free from odour.
- (b) 10 grammes of the material, added to 30 cubic centimetres of distilled water at 20° C., should rapidly dissolve with occasional shaking to a clear solution.
- (c) The ash remaining after volatilization, by heating in a platinum dish 3 grammes of the material, should not amount to more than 0.75%.
- (d) Lead, copper, and other metals. 10 cubic centimetres of 10% solution of the material in distilled water should show no appreciable darkening on the addition of an equal volume of hydrogen sulphide solution.
- (e) The material shall contain—
 - (i) Not more than 0.2 per cent. of sulphates, calculated in the form of sulphuric anhydride SO_3 .
 - (ii) Not more than 0.01 per cent. of iron, calculated in the form of oxide Fe_2O_3 .
 - (iii) Not more than 0.001 per cent. of compounds of arsenic, calculated as the element As.

PACKING.—The material shall be packed in strong, sound kegs or cases, each containing 1 cwt. The kegs or cases must be made of dry well-seasoned new wood, of sufficient strength and suitably secured to prevent any loss of contents by leakage. The kegs or cases shall be well lined with strong brown paper.

Any delivery of second-hand, repaired, damaged, or broached kegs or cases will be liable to rejection.

MARKING.—All containers shall be legibly marked in stencil, with the name of the material, the net weight of the contents the brand or brand name, if any, and the name of the manufacturer.

SAMPLES.—Samples shall be taken from each delivery of the items enumerated, and these samples when tested in the laboratory shall conform to the specification (if any) and the specific gravities (if any) set out in the Schedule.

SPECIFICATION FOR ORANGE SHELLAC—*Item No. 1621.*

The Shellac shall comply with the Australian Commonwealth Engineering Standards Association Specification K. 38.

Acids.—The specific gravity at 60° F. of the acids shall be as shown hereunder:—

Item No.	Acid.	Specific Gravity at 60 deg. F.
1565	Hydrochloric	Not less than 1.1725
1566-1569	Muriatic	Not less than 1.166
1570-1573	Nitric	Not less than 1.400
1574	Nitric C.P.	Not less than 1.400
1576-1579	Sulphuric	Not less than 1.820
1580-1583	Sulphuric for batteries	From 1.100 to 1.215
1584-1587	Sulphuric for batteries	From 1.216 to 1.300
1588	Sulphuric C.P.	Not less than 1.840