



VICTORIA GOVERNMENT GAZETTE.

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MONDAY, FEBRUARY 11.

[1935

No	Number of Tenders.	Particulars of Contract.	Country of Manufacture or Production.	Amount.	Name of Contractor.
423	..	Railways Stores Suspense Account, Act 3759, Section 105— Supply and delivery of Stores, as ordered, from 1st October, 1934, to 30th June 1936.	As per annex ..	Rates as per annex	As per annex

Melbourne, 26th January, 1935.

Schedule of Rates Contracts

FOR THE

SUPPLY OF STORES

TO THE

VICTORIAN RAILWAYS

Period 1.10.1934 to 30.6.1936.

E. C. EYERS,
By Order of the Victorian Railways Commissioners.

SUPPLY AND DELIVERY OF STORES.

As ordered, from 1.10.1934 to 30.6.1936.

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.

No subletting will be allowed.

All rates are exclusive of Sales Tax.

LUBRICATING OIL (MOTOR, ENGINE AND MACHINERY).

(See Appendix "A" for Specification).

Payment will be made on gallonage calculated on net weight ascertained by approved methods by the Comptroller of Stores or his representative at the place of delivery, and the specific gravity ascertained in the Victorian Railways Laboratory from samples drawn from such delivery.

** The rates, excepting items 2, 3, 6, 7, 17, 19, 20, 21, 22, 32, 32A, 33, 34, 37 and 39, do not include Exchange between Australia and London, and are based on the following rates of conversion between London and the country of production:—London-New York conversion of 4.86½ dollars to the £1 sterling. London-Japan on 1 yen equalling 1s. 3d. sterling.

Exchange and Conversion is to Corporation's account and the contract rate is to be adjusted by adding or deducting the rate of Exchange and/or conversion operating on the date of delivery between Australia and the country of production in the following manner:—

For each item, excepting as shown above, a factor in pence is shown. This is to be multiplied by the percentage of Exchange ruling on the date of delivery between Australia and the country of production shown. The result will determine the amount to be added to or deducted from the contract rate per gallon.

The rate of Exchange and conversion notified by the Commonwealth Bank of Australia as ruling on the date of delivery to the Corporation will in all cases be adopted.

As regards Items 25 and 26, two factors are shown, and they are to be used separately for calculating the Australian-New York and Australian-Japan Exchange respectively. The calculation for Exchange in each case is to be made only on the percentage of the factors shown in the schedule, viz., 88 per cent. for U.S.A. Exchange, and 12 per cent. for Japanese Exchange.

** As regards Items 14c and 15c, the rates are firm regarding conversion and are subject to adjustment for T.T. Exchange only.

* The rate for Item 32 is based on Castor Seed at £15 per ton c.i.f. and e. Sydney, and will vary 2½d. per gallon for every £1 variation per ton of seed, variations of fractions of £1 to be treated pro rata. The average price of castor seed c.i.f. and e. paid by Contractor for shipments received by him during each month shall govern the price of castor oil supplied by Contractor during the month following and until a further shipment of castor seed is received. The Contractor shall forward to the Comptroller of Stores with each invoice, particulars of the c.i.f. and e. value of the Castor Seed, and shall submit, if called upon, documentary evidence in support of his claim.

In the event of the Castor Oil not being supplied from stock in Melbourne, orders should provide for the material being consigned on Bill of Lading to the Comptroller of Stores, Victorian Railways, to enable the Department to obtain free wharfage, and the amount of wharfage involved should be deducted from Contractor's invoice.

Storehouse Manager and Shipping Clerk to arrange accordingly.

** As regards Item 37, the rate is based on par T.T. Exchange, between Australia and New Zealand, and any variation as notified by Commonwealth Bank at date of delivery is to the Corporation's account, and shall be calculated on 1s. 3d. per gallon.

More than one tender has been accepted for each of the following items, and provided satisfactory service is rendered, the business should be allotted as follows:—

Items 2 and 2A
" 3 and 3A
" 6 and 6A
" 7 and 7A
" 17 to 17B
" 19 and 19A
" 20 and 20A
" 21 and 21A
" 22 and 22A
" 28 and 28A
" 32 and 32A

Trial orders are to be placed on Ramsay and Treganowan Ltd., and if the oil prove satisfactory, future requirements should be obtained from this Contractor.

... As determined by the Chief Electrical Engineer.

... All orders for Castor Oil to be placed with Marrickville Margarine Ltd., while the rate for Castor Seed does not exceed £15 per ton c.i.f.e. Sydney. Storehouse Manager to check with Auditor of Disbursements before issuing orders.

The above allocation does not apply to Items which are specially provided for other Government Departments.

Item No.	Description.	Country of Manuf're.	Estimated Requirements	Rate. per	Rate.	Name of Contractor.
	MOTOR, ENGINE AND MACHINERY OILS.				£ s. d.	
† 1	Specification L4; Grade—extra light—Oil, for refrigerating machines, in 4 gal. tins "No. 1 Refrigerator" for Chalet, Mt. Buffalo)	U.S.A.	20 gals.	gallon	**0 2 3	C. C. Wakefield & Co. Ltd.
† 1A	Exchange Factor—14d. gallon "Arctic C Heavy" (for Ice Works) ... Exchange Factor—14d. gallon	"		"	**0 2 8	Vacuum Oil Co. Pty. Ltd

LUBRICATING OILS (MOTOR, ENGINE AND MACHINERY)—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	MOTOR, ENGINE AND MACHINERY OILS—continued.				£ s. d.	
† { 2	Specification L4; Grade—Light—Oil, cylinder for water cooled petrol engines, suitable for Ford Model T. cars— in 4 gallon tins "XL Motor Oil Light"	Vict.	700 gals.	gal.	0 2 0	Ramsay & Treganowan Ltd.
† { 3	in 40/45 gallon drums "XL Motor Oil Light"	"	80 "	"	0 1 9	
† { 2A	in 4 gallon tins "S.O 5" ...	U.S.A.	Included in Items 2 and 3	"	**0 2 0½	Vacuum Oil Co. Pty. Ltd. (Socony Division)
† { 3A	Exchange Factor—13d. gallon in 40/45 gallon drums "S.O 5" ... Exchange Factor—105d. gallon	"		"	**0 1 9½	
† { 4	Specification L4; Grade—Medium—Oil, cylinder for water cooled petrol engines, suitable for Chevrolet, Dodge, Ford Model A. and Morris Cars— in 4 gallon tins "V2" ... Exchange Factor—12d. gallon	U.S.A. & Vict.	2200 gals.	"	**0 2 3½	Vacuum Oil Co. Co. Pty Ltd.
† { 5	in 40/45 gallon drums, "V2" ... Exchange Factor—12d. gallon	U.S.A. & Vict.	1200 "	"	**0 2 0½	
† { 4A	in 4 gallon tins "Valvoline Medium" (for use at Chalet, Mt. Buffalo) Exchange Factor—55d. gallon	U.S.A.	100 "	"	**0 5 9	J. Carrigan
† { 5A	in 40/45 gallon drums "Valvoline Medium" (for use at Chalet, at Mt. Buffalo) Exchange Factor—48d. gallon	"		"	**0 5 3	
† { 6	Specification L4; Grade—Heavy Medium—Oil, cylinder for water cooled petrol engines, including Gang Cars, Types K. and K.S., 2 cycle water-cooled engines, suitable for Armstrong Siddeley, Austin, Dodge Cars; Chevrolet, Morris and Graham trucks— in 4 gallon tins "XL Heavy Medium"	Vict.	7000 "	"	0 2 5	Ramsay & Treganowan Ltd.
† { 7	in 40/45 gallon drums "XL Heavy Medium"	"	700 "	"	0 2 2	
† { 6A	in 4 gallon tins "Lustre Heavy" ... Exchange Factor—140d. gallon	U.S.A.	Included in Items 6 & 7	"	**0 2 5	Shell Co. of Aust. Ltd.
† { 7A	in 40/45 gallon drums "Lustre Heavy" Exchange Factor—140d. gallon	"		"	**0 2 2	
† { 6B	in 4 gallon tins "Atreco M.M. 1248" Exchange Factor—184d. gallon	"	1500 gals.	"	**0 3 0½	Atlantic Union Oil Co. Ltd.
† { 7B	in 40/45 gal. drums "Atreco M.M. 1248" Exchange Factor—184d. gallon	"		"	**0 2 9½	
† { 6C	in 4 gallon tins "Castrol" X (for Police Department) Exchange Factor—255d. gallon	"	1500 gals.	"	**0 3 11	C. C. Wakefield Co. Ltd.
† { 7C	in 40/45 gal. drums "Castrol X" (for Police Department) Exchange Factor—255d. gallon	"		"	**0 3 9	
† { 6D	in 4 gallon tins "Mobiloil A.F." (for State Rivers and Water Supply Commission) Exchange Factor—21d. gallon	"	1000 "	"	**0 3 3	Vacuum Oil Co. Co. Pty. Ltd.
† { 7D	in 40/45 gal. drums "Mobiloil A.F." (for State Rivers and Water Supply Commission) Exchange Factor—21d. gallon	"	240 "	"	**0 3 0	

LUBRICATING OILS (MOTOR, ENGINE AND MACHINERY)—continued.

Item No.	Description.	Country of Manuf're.	Estimated Requirements	Rate per	Rate.	Name of Contractor.
	MOTOR, ENGINE AND MACHINERY OILS—continued.				£ s. d.	
	Specification L4; Grade—Heavy—Oil, cylinder for water cooled petrol engines, suitable for Austin, Daimler and Morris Cars; Bean, International and White trucks—					
8	in 4 gallon tins "Castrol XL" (for Police Department) Exchange Factor—265d. gallon	U.S.A.	2800 gals.	gal.	**0 4 2	C. C. Wakefield & Co. Ltd.
9	in 40/45 gallon drums "Castrol XL" (for Police Department) Exchange Factor—265d. gallon	"	3500 "	"	**0 4 0	
	Specification L4; Grade—Extra Heavy—Oil, cylinder for water cooled petrol engines and air cooled petrol engines, suitable for Talbot cars, A.E.C. Karrier and Vulcan trucks; Coventry Eagle Motor Cycles and J.A.P. Air cooled engines—					
10	in 4 gallon tins "V5" Exchange Factor—15d. gallon	U.S.A. & Vict.	4500 "	"	**0 2 10½	Vacuum Oil Co. Pty. Ltd.
11	in 40/45 gallon drums "V5" Exchange Factor—15d. gallon	U.S.A. & Vict.	80 "	"	**0 2 7½	
10A	in 4 gallon tins "Golden Shell" (for Country Roads Board) Exchange Factor—22d. gallon	U.S.A.	600 "	"	**0 3 4	Shell Co. of Aust. Ltd.
11A	in 40/45 gal. drums "Golden Shell" (for Country Roads Board) Exchange Factor—22d. gallon	"		"	**0 3 1	
10B	in 4 gallon tins "Castrol-XXL" (for Police Department) Exchange Factor—32d. gallon	"	1500 "	"	**0 4 7	C. C. Wakefield & Co. Ltd.
11B	in 40/45 gallon drums "Castrol-XXL" (for Police Department) Exchange Factor—32d. gallon	"		"	**0 4 5	
10C	in 4 gallon tins "Valvoline Heavy" (for Cadillac Cars at Chalet) Exchange Factor—58d. gallon	"	200 "	"	**0 6 3	J. Carrigan
11C	in 40/45 gal. drums "Valvoline Heavy" (for Cadillac Cars at Chalet) Exchange Factor—55d. gallon	"		"	**0 5 9	
	Specification L4; Grade—Extra Heavy Special—Oil, cylinder for water cooled petrol engines, suitable for rail motors and petrol electric rail motors—					
12	in 4 gallon tins "Basso Super Heavy" Exchange Factor—189d. gallon	"	1500 "	"	**0 2 9	Atlantic Union Oil Co. Ltd.
13	in 40/45 gal. drums "Basso Super Heavy" Exchange Factor—189d. gallon	"	2000 "	"	**0 2 6	
	Oil cylinder, for Deisel engines, airless injection cold starting oil engines, McDonald super Deisel road rollers, two cycle and four cycle Deisel engines of 60-200 H.P.—					
14	in 4 gallon tins "No. 732" (for Chalet, Mt. Buffalo) Exchange Factor—133d. gallon	"	400 "	"	**0 2 4	Texas Co. (Asia) Ltd.
15	in 40/45 gallon drums "No. 732" (for Chalet, Mt. Buffalo) Exchange Factor—133d. gallon	"		"	**0 2 1	

LUBRICATING OILS (MOTOR, ENGINE AND MACHINERY)—continued.

Item No.	Description	Country of Manuf'ce.	Estimated Requirements	Rate per	Rate	Name of Contractor
	MOTOR, ENGINE AND MACHINERY OILS—continued.				£ s. d.	
	Oil cylinder, for Deisel engines, airless injection cold starting oil engines, McDonald super Deisel road rollers, two cycle and four cycle Deisel engines of 60-200 H.P.—continued—					
14A	in 4 gallon tins "ATLA Special Heavy" (for State Rivers and Water Supply Commission)	U.S.A.	1000 gals.	gal.	**0 2 9	Atlantic Union Oil Co. Ltd.
15A	Exchange Factor—17d. gallon in 40/45 gal. drums "ATLA Special Heavy" (for State Rivers and Water Supply Commission)	"		"	**0 2 6	
14B	Exchange Factor—17d. gallon in 4 gallon tins "DTE Extra Heavy" (for State Rivers and Water Supply Commission)	"		"	**0 3 7	
15B	Exchange Factor—24d. gallon in 40/45 gallon drums "DTE Extra Heavy" (for State Rivers and Water Supply Commission)	"	1500 "	"	**0 3 4	Vacuum Oil Co. Pty. Ltd.
14C	Exchange Factor—24d. gallon in 4 gallon tins "CU 3" (for Country Roads Board)	Germany	500 "	"	**0 2 10	Shell Co. of Aust. Ltd.
15C	Exchange Factor—175d. gallon in 40/45 gallon drums "CU 3" (for Country Roads Board)	"		"	**0 2 7	
	Exchange Factor—175d. gallon					
16	Oil, for lubrication in enclosed crank cases of Leyland and Yorkshire steam wagons, in 4 gallon tins "B 9b" (for Country Roads Board)	U.S.A.	450 "	"	**0 3 6	
	Exchange Factor—23d. gallon					
17	Specification L4a; Grade—Medium—Oil, cylinder for Kerosene engines, including Crossley, Coulson, Smith and Searle, V.R. Standard, in 4 gallon tins—"XL" ...	Vict.	700 "	"	0 2 6	Ramsay & Treganowan Ltd.
17A	"Atlantic Kero. and Gas Engine Oil" Exchange Factor—152d. gallon	U.S.A.		"	**0 2 8½	Atlantic Union Oil Co. Ltd.
17B	"Vacme Heavy Medium X" ... Exchange Factor—155d. gallon	U.S.A. & Vict.		"	**0 3 0½	Vacuum Oil Co. Pty. Ltd.
18	Specification L5; Grade—Extra Light Oil, bearing, suitable for small electric motors, light line shafting, pumps, small machines, spindles, automatic signal mechanism, power sewing machines, power separators, light printing machines and ring oil bearings—					
	in 4 gallon tins, "Atlantic Ex. Light Bearing Oil"	U.S.A.	400 "	"	**0 1 9½	Atlantic Union Oil Co. Ltd.
	Exchange Factor—110d. gallon					
19	Specification L5; Grade—Light—Oil, bearing, suitable for signal apparatus, medium line shafting, light ball bearings and races, medium printing machines, small milling machines, and ring oil bearings—					
	in 40/45 gallon drums "XL Light Machine"	Vict.	1500 "	"	0 1 7	Ramsay & Treganowan Ltd.
19A	"Aleph" ... Exchange Factor—108d. gallon	U.S.A.		"	**0 1 5½	Texas Co. (Asia) Ltd.

LUBRICATING OILS (MOTOR, ENGINE AND MACHINERY)—continued.

Item No.	Description	Country of Manuf're.	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
	MOTORS, ENGINE, AND MACHINERY OILS—continued.					
	Specification L5; Grade—Medium—Oil, bearing, suitable for large electric motors and dynamo, heavy ball bearings and races, tricycles, windmills, large pumps, gyratory stone crushers, saw milling machinery, lathes, drilling machines and large milling machines—					
† 20	in 4 gallon tins "XL Medium Machine"	Vict.	50 gals.	gal.	0 1 9	Ramsay & Treganowan Ltd.
† 21	in 40/45 gallon drums "XL Medium Machine"	"	5500 "	"	0 1 6	
† 20A	in 4 gallon tins "Altair" ... Exchange Factor—114d. gallon	U.S.A.	Included in items 20 and 21	"	**0 1 9½	Texas Co. (Asia) Ltd.
† 21A	in 40/45 gallon drums "Altair" ... Exchange Factor—114d. gallon	"		"	**0 1 6½	
	Specification L5; Grade—Heavy—Oil, bearing, suitable for large machine tools, signal mechanism, heavy electric motors, road roller bearings, and heavy engine bearings—					
† 22	in 40/45 gallon drums "XL Heavy Machine"	Vict.	2200 gals.	"	0 1 8	Ramsay & Treganowan Ltd.
† 22A	in 40/45 gallon drums "744" ... Exchange Factor—121d. gallon	U.S.A.		"	**0 1 8	
	Specification L5; Grade—Extra Heavy—Oil, bearing, for Stone Crushers, Tractors and similar machinery—					
† 23	in 40/45 gallon drums "671" ... Exchange Factor—087d. gallon	"	150 "	"	**0 1 5½	Texas Co. (Asia) Ltd.
	Specification L5; Grade—Extra Heavy—Special—Oil, bearing, for Rail and Road Motor Transmission Gear—					
† 24	in 40/45 gallon drums "SD" Gear Oil Exchange Factor—12d. gallon	"	2500 "	"	**0 1 9½	Vacuum Oil Co. Pty. Ltd. (Socony Division)
	Specification L5a; Grade—Light—Oil, bearing, for marine steam engines—	U.S.A., Japan & Vict.				
† 25	in 4 gallon tins "Kaliff DD" (for Public Works Department) Exchange Factor—11d. gal. on 88% U.S.A., 23d. gal. on 12% Japan	"	50 "	"	**0 2 6	Vacuum Oil Co. Pty. Ltd.
† 26	in 40/45 gallon drums "Kaliff DD" (For Public Works Department) Exchange Factor—11d. gal. on 88% U.S.A., 23d. gal. on 12% Japan	"	1750 "	"	**0 2 3	
	Specification L6; Grade—Medium—Oil, for turbines—					
† 27	in 4 gallon tins ...	"	...	...	...	Nil
† 28	in 40/45 gallon drums "Valvoline Medium Turbine" Exchange Factor—4d. gallon	U.S.A.	4500 "	"	**0 4 9	J. Carrigan
† 28A	in 40/45 gallon drums "DTE Light" Exchange Factor—19d. gallon	"	450 "	"	**0 2 10½	Vacuum Oil Co. Pty. Ltd.
† 28B	in 40/45 gallon drums "DTE Heavy Medium" (For State Rivers and Water Supply Commission) Exchange Factor—19d. gallon	"	3000 "	"	**0 2 10½	

LUBRICATING OILS (MOTOR, ENGINE AND MACHINERY)—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
	MOTOR, ENGINE AND MACHINERY OILS—continued.					
	Specification L6; Grade—Medium—Oil, for Air Compressors—					
29	in 4 gallon tins "Algol" ...	U.S.A.	1000 gals.	gal.	**0 2 4	Texas Co. (Asia) Ltd.
	Exchange Factor—145d. gallon					
30	in 40/45 gallon drums "Algol" ...	"	80 "	"	**0 2 1	
† 29A	Exchange Factor—145d. gallon	"		"	**0 2 4	
	in 4 gallon tins "Algol" (For Public Works Department)	"	500 "			
	Exchange Factor—145d. gallon					
30A	in 40/45 gallon drums "Algol" (for Public Works Department)	"		"	**0 2 1	
	Exchange Factor—145d. gallon					
	Specification L7; Grade—Light—Oil, for Transformers and Switch Gear—					
† 31	in 4 gallon tins "Transformer A" ...	"	2500 "	"	**0 2 7½	Vacuum Oil Co. Pty Ltd.
	Exchange Factor—2d. gallon					
† 32	Specification L8; Castor Oil—	N.S.W. (partly)	1200 "	"	* 0 5 0	Marrickville Margarine Ltd.
	in 5 gallon drums ...			"		
† 32A	in 5 gallon drums ...	Vict.		"	0 5 1	Lycett Pty. Ltd.
† 33	Oil, Neatsfoot, pure—"XL" in 4 gallon tins ...	"	80 "	"	0 3 4	Ramsay & Treganowan Ltd.
† 34	Oil, Neatsfoot Compound—"XL" in 40/45 gallon barrels or drums ...	"	900 "	"	0 1 8	
	Soluble Cutting Compound—					
† 35	in 4 gallon tins "Soluble P" ...	U.S.A. & Vict.	12 "	"	**0 2 5½	Vacuum Oil Co. Pty. Ltd.
	Exchange Factor—055d. gallon			"		
† 36	in 40/45 gallon drums "Soluble P" ...	"	4000 "	"	**0 2 2½	
	Exchange Factor—055d. gallon					
† 37	Oil, Whale, for tempering springs, in 40/45 gallon barrels or drums ...	New Zealand	700 "	"	**0 1 8	R. G. Grant & Co Pty. Ltd.
† 38	Oil, Lardine, in 4 gallon tins ...	U.S.A. & Vict.	75 "	"	**0 1 9½	Vacuum Oil Co. Pty. Ltd.
	Exchange Factor—04d. gallon					
† 39	Oil, Lard, Substitute, in 4 gallon tins "XL" ...	Vict.	20 "	"	0 3 10	Ramsay & Treganowan Ltd.
40-46	—Nil.					

TURPENTINE, TURPENTINE SUBSTITUTE, AND METHYLATED SPIRITS.

7. TURPENTINE—SPECIFICATION A5. Item No. 47.

The material shall be supplied to Tentative Australian Standard Specification, No. K7—1926 T.

The material shall be tested by standard methods of sampling and testing Tentative Australian Standard Specification, Nos. K7 and 8 1926 T., Part 2.

TURPENTINE, TURPENTINE SUBSTITUTE AND METHYLATED SPIRITS—continued.

8. MINERAL TURPENTINE—SPECIFICATION A6. *Items Nos. 48 and 49.*

The material shall be supplied to Tentative Australian Standard Specification No. K8—1926 T.

The material shall be tested by Standard methods of sampling and testing Tentative Australian Standards Nos. K7 and 8—1926 T., Part 2.

9. SPECIFICATION FOR METHYLATED SPIRITS—*Items Nos. 50 and 51.*

The material shall be supplied to Tentative Australian Standard Specification No. K30—1928 T.

The material shall be tested by Standard methods of testing Nos. 30 and 31—1928 T., Part 2.

10. Payment will be made on gallonage calculated on net weights ascertained by approved methods by the Comptroller of Stores or his representative at the place of delivery, and the specific gravity ascertained in the Victorian Railways Laboratory from samples drawn from such delivery.

** As regards Item No. 47, the contract rate does not include Exchange between Australia and London, and is based on the par rate of conversion between London and the country of production. London-New York conversion is based on 4/86½ dollars to the £1 sterling.

The contract rate will be adjusted to cover the rate of Exchange and conversion operating on the date of delivery between Australia and the country of production in the following manner:—

The factor per gallon, shown, shall be multiplied by the percentage of Exchange ruling on the date of delivery between Australia and the country of production. The result will determine the amount by which the contract rate per gallon is to be increased or decreased.

The rate of Exchange and conversion notified by the Commonwealth Bank of Australia as ruling on the date of delivery to the Corporation will be adopted.

The rates for Items Nos. 48 and 49 are contingent on this Department not using the Turpentine Substitute as a fuel or an admixture of fuel. In the event of the Department using, as a fuel, or for admixture with a fuel, any Turpentine Substitute, Contractor is to be so advised and duties of Customs of 6d. per gallon shall be to the Corporation's account.

As regards Items 48 and 49, prices are nett and for payment within 30 days. Rates cover delivery within the contractor's "Metropolitan Free Delivery Area."

Drums, Item 49, will be invoiced at £2 each, and amount credited on their return in good order and condition. Minimum delivery 44 gallons.

† Rates for Items 48 and 49 are current wholesale selling rates and are subject to fluctuations on all deliveries made on and after the date such fluctuations became operative. Special allowances or discounts not of common application are not applicable. Rates, printed below, are the net prices after deducting 1d. for special allowance and 1d. for cash discount. The special allowance is subject to cancellation or withdrawal without notice.

Clause 7 of conditions of contract does not apply to items 48 and 49.

Item No.	Description	Country of Manuf're.	Estimated Requirements	Rate per	Rate	Name of Contract or
					£ s. d.	
† 47	Turpentine, to Specification A. 5, in cases 2 x 4 gal. tins. "Taloco" Exchange Factor 0.395d. gallon	U.S.A.	4000 gals.	gal.	**0 3 8½	Hardie Trading Pty. Ltd.
	Turpentine, Substitute, volatile mineral spirit, paint thinners, Specification A. 6— "Shell Mineral Turpentine"—					
† { 48	In cases, 2 x 4 gal. tins	East	4000 "	"	†0 1 8½	The Shell Company of Australia Ltd.
† { 49	In bulk, in returnable drums	Indies	350 "	"	†0 1 4	
† 50	Spirits, Methylated, in 4 gal. tins "C.S.R. Co."	N.S.W.	1750 "	"	0 2 8½	E. L. Yencken & Co. Pty. Ltd.
† 51	Spirits, Methylated, in 40 gal. returnable cylinders "J. L. Lennard"	Vict.	2500 "	"	0 2 5½	W. & G. Dean Pty. Ltd.

INDIA-RUBBER GOODS, PACKING, ETC.

7. SPECIFICATION—RUBBER HOSE—Items 65 to 82.

All hose shall be made of rubber and cotton fabric, all materials and workmanship shall be of the very best quality; no rubber substitutes or short fibre cotton shall be used.

Hose shall be soft and pliable, uniformly and smoothly finished.

All hose delivered under the following items shall be in accordance with the requirements specified hereunder :—

Item No.	Inside Diameter.		Outside Diameter.		Length.	Ply.	Bursting Pressure. lbs. per sq. in. minimum
	Max.	Min.	Max.	Min.			
	Inches.	Inches.	Inches.	Inches.			lb.
65	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{15}{16}$	$2\frac{7}{8}$	60. feet	3	400
66	$1\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{17}{16}$	$1\frac{13}{8}$	As ordered	3	300
67	1	$1\frac{1}{8}$	$1\frac{7}{16}$	$1\frac{3}{8}$	"	3	300
68	$1\frac{1}{2}$	$1\frac{7}{16}$	$2\frac{1}{16}$	2	"	3	500
69	$1\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{15}{16}$	$1\frac{1}{4}$	"	4	756
70	2	$1\frac{15}{16}$	$2\frac{1}{16}$	$2\frac{1}{2}$	"	4	375
71	$2\frac{1}{2}$	$2\frac{1}{16}$	$3\frac{1}{16}$	3	"	4	300
74	2	$1\frac{15}{16}$	$2\frac{1}{16}$	$2\frac{1}{2}$	"	4	375
76 and 77	$1\frac{1}{2}$	$1\frac{7}{8}$	$1\frac{15}{16}$	$1\frac{3}{8}$	"	5	800
78	$1\frac{1}{4}$	$1\frac{7}{8}$	$1\frac{15}{16}$	$1\frac{1}{4}$	40 feet	5	1000
79	$1\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{15}{16}$	$1\frac{1}{4}$	As ordered	5	1288
82	$1\frac{1}{2}$	$1\frac{7}{8}$	$1\frac{15}{16}$	$1\frac{3}{8}$	60 feet	6	1300

8. SPECIFICATION—I.R. SHEET—Items 90 to 95.

Material.—All matting shall be made of rubber and canvas, all material and workmanship shall be of the very best quality for the purpose; no rubber substitutes shall be used.

The matting shall be soft and pliable, uniformly and smoothly finished.

The matting when tested shall comply with the following physical requirements :—

Tensile strength of Rubber Compound, not less than 275 lb. per square inch.

Elongation of Rubber Compound, not less than 50 per cent. in 2 inches.

Tensile strength of Complete Matting, not less than 650 lb. per square inch.

Permissible variation of thickness from that ordered—Under nil, over .035 inch.

9. As regards items 58-60, 120, 121 and 122 to 129, the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 50% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

† As regards items 52, 53, 54, 64 to 66, 69, 71, 83, 84 to 84k, 96 to 99, 102, 108 to 110, 118, 119, 137 to 142, rates are subject to 2½% discount for settlement within 30 days.

As regards items Nos. 84 to 84k, Dunlop Perdriau Rubber Co. Ltd. should receive approx. 84% of the business and the Goodyear Tyre and Rubber Co. of A'sia. Ltd. 16%. The estimated requirements have been amended accordingly. Storehouse Manager to arrange.

As regards item 58, time for importation is to be allowed after placing order.

Item No.	Descriptor	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
52	Boots, I.R., Ankle, farmyard, any size, as ordered	Vict. (partly)	20 pairs.	pair	10 8 11	Dunlop Perdriau Rubber Co. Ltd.
53	Boots, I.R., gum knee, any size, as ordered ...	"	20 "	"	10 11 6	
54	Boots, Thigh, any size, as ordered ...	"	120 "	"	11 0 0	
*55	Bumpers, I.R., Door ...	"	20 doz.	doz.	0 1 5	Barnet Glass Rubber Co. Ltd. Dunlop Perdriau Rubber Co. Ltd.
56	" M.M.B.W. ...	"	6 "	"	0 0 4½	
*57	" I.R., Sash, ½" ...	"	120 "	"	0 2 1	

† Less 2½% discount—30 days.

INDIA-RUBBER GOODS, PACKING, ETC.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
*58	Gaskets, for 3" "B. & W." Headers, oval	U.K.	35,000	100	0 18 0	Jas. Walker & Coy (Asia) Ltd.
*59	Gaskets, for 4" "B. & W." Header joints, oval "Golden Walkerite"	"	2000	"	1 5 0	
*60	Gaskets, square, for superheaters, Babcock and Wilcock boilers, graphited	"	1100	"	0 18 0	
†61	Gloves, I.R., Half Gauntlet, for Electricians' use, tested to 5000 volts, any size, as ordered	Vict. (partly)	150 pairs	pair	0 6 11	Dunlop Perdriau Rubber Co. Ltd.
†62	Gloves, I.R., Elbow length, acid resisting, for handling weed poisoning liquid—any size, as ordered	"	240 "	"	0 8 6	
†63	Gloves, I.R., Special, Dipped, Reinforced thumb, for acid and accumulator work, tested to 5000 volts, any size, as ordered, weight not to exceed 16 oz.	"	100 "	"	0 11 3	
	Hose, India-rubber, vulcanized, to Specification—					
†64	3-ply, $\frac{3}{4}$ " diameter, Armoured outside, oil resisting "Kangaroo"	N.S.W.	500 feet	foot	†0 0 10 less 20%	Hardie Rubber Co. Ltd.
†65	3-ply, $\frac{1}{2}$ " diameter, ordinary quality, for water "Koala"	"	3500 "	"	†0 0 5 $\frac{3}{4}$ less 20%	
†66	3-ply, $\frac{3}{4}$ " diameter, ordinary quality, for water "Koala"	"	14,000 "	"	†0 0 6 $\frac{3}{4}$ less 20%	
†67	3-ply, 1" diameter, ordinary quality, for water	Vict. (partly)	1400 "	"	0 0 7	Dunlop Perdriau Rubber Co. Ltd.
†68	3-ply, 1 $\frac{1}{2}$ " diameter, ordinary quality, for water	"	150 "	"	0 1 1	
†69	4-ply, $\frac{3}{4}$ " diameter, special quality, water "Koala"	N.S.W.	1500 "	"	†0 0 8 $\frac{3}{4}$ less 20%	Hardie Rubber Co. Ltd.
†70	4-ply, 2" diameter, water	"	700 "	"	0 1 9	Dunlop Perdriau Rubber Co. Ltd.
†71	4-ply, 2 $\frac{1}{2}$ " diameter, water "Koala"	"	1200 "	"	†0 2 7 less 20%	Hardie Rubber Co. Ltd.
†72	4-ply, 2 $\frac{3}{4}$ " diameter, in 3' 2" lengths, suction, smooth bore, Armoured inside, with plain ends 3" long (for "X" class engines)	"	40 lengths	"	"	Nil.
†73	4-ply, 2 $\frac{3}{4}$ " diameter, in 3' 7" lengths, suction, smooth bore, Armoured inside, with plain ends 3" long (for "S" class engines)	"	20 "	"	"	
†74	4-ply, 2" diameter, Armoured outside, for water	Vict. (partly)	4300 feet	foot	0 2 0	Dunlop Perdriau Rubber Co. Ltd.
†75	4-ply, 2" diameter, Armoured inside, rough bore	"	700 "	"	0 2 2	
†76	5-ply, $\frac{3}{8}$ " diameter, in 60' lengths, chemical quality	"	5 lengths	length	1 17 6	
†77	5-ply, $\frac{3}{8}$ " diameter, in 60' lengths, for steam or compressed air, as ordered	"	8000 feet	foot	0 0 8	Barnet Glass Rubber Co. Ltd.
†78	5-ply, $\frac{5}{8}$ " diameter, Armoured externally, for Pintsch Gas, in 40' lengths	"	360 "	"	0 1 4	
†79	5-ply $\frac{1}{2}$ " diameter, for Compressed air	"	5000 "	"	0 0 9	Dunlop Perdriau Rubber Co. Ltd.
†80	5-ply, 1 $\frac{1}{8}$ " diameter, for steam	"	600 "	"	0 1 4	
†81	6-ply, $\frac{3}{4}$ " diameter, Armoured outside, for steam	"	2000 "	"	0 1 2	Barnet Glass Rubber Co. Ltd.
†82	6-ply, $\frac{1}{2}$ " diameter, for Pantograph	"	700 "	"	0 0 11 $\frac{1}{2}$	
†83	India-rubber Sheet, $\frac{1}{8}$ " thick, for re-treading	"	40 lb.	lb.	†0 1 3	Golding's Pty. Ltd.

† Less 2 $\frac{1}{2}$ % discount—30 days.

INDIA-RUBBER GOODS, PACKING, ETC.—continued.

Item No.	Description	Country of Manuf're.	Estimated Requirements	Rate per	Rate.	Name of Contractor.
	India-rubber, Sheet Vulcanized— With canvas insertion				£ s. d.	
	Gauge No. of plies Max. width Length ea. roll				all less 33 1/3%	
†84	3 1/2" 1 36" 50 yds.	Vict. (partly)		lb.	£0 2 5	Dunlop Perdriau Rubber Co. Ltd.
†84A	1/2" 1 36" 50 "	N.S.W. (partly)		"	£0 2 5	Goodyear Tyre and Rubber Co. of Australasia Pty. Ltd.
†84B	1/8" 1 36" 50 "	Vict. (partly)		"	£0 1 4	Dunlop Perdriau Rubber Co. Ltd.
†84C	1/8" 1 36" 50 "	N.S.W. (partly)		"	£0 1 4	Goodyear Tyre and Rubber Co. of Australasia Pty. Ltd.
†84D	3/32" 1 36" 35 "	Vict. (partly)		"	£0 1 10	Dunlop Perdriau Rubber Co. Ltd.
†84E	3/32" 1 36" 35 "	N.S.W. (partly)		"	£0 1 10	Goodyear Tyre and Rubber Co. of Australasia Pty. Ltd.
†84F	1/8" 2 36" 25 "	Vict. (partly)	Dunlop 5880 lb.	"	£0 1 3	Dunlop Perdriau Rubber Co. Ltd.
†84G	1/8" 2 36" 25 "	N.S.W. (partly)	Goodyear 1120 lb.	"	£0 1 3	Goodyear Tyre and Rubber Co. of Australasia Pty. Ltd.
†84H	3/16" 3 36" 25 "	Vict. (partly)		"	£0 1 7 1/2	Dunlop Perdriau Rubber Co. Ltd.
†84I	3/16" 3 36" 25 "	N.S.W. (partly)		"	£0 1 7 1/2	Goodyear Tyre and Rubber Co. of Australasia Pty. Ltd.
†84J	1/4" 4 36" 25 "	Vict. (partly)		"	£0 1 10 1/2	Dunlop Perdriau Rubber Co. Ltd.
†84K	1/4" 4 36" 25 "	N.S.W. (partly)		"	£0 1 10 1/2	Goodyear Tyre and Rubber Co. of Australasia Pty. Ltd.
	India-rubber, Sheet, Brown—				all less 33 1/3%	
85	1/8" ...		20 lb.			
86	1/4" ...		2000 "			
† 87	3/8" ...		175 "			Nil.
88	1/2" ...		175 "			
89	1" ...		150 "			
	India-rubber, Sheet, Brown, backed—1 1/8" thick—				Nett	
90	26 1/4" wide ...	Vict. (partly)	15 l. yd.	lin. yd.	0 11 3	
91	27 1/2" wide ...	"	15 "	"	0 11 8	
92	30" wide ...	"	18 "	"	0 12 8 1/2	
† 93	36" wide ...	"	20 "	"	0 12 10	Dunlop Perdriau Rubber Co. Ltd.
94	48" wide ...	"	20 "	"	0 14 9	
95	72" wide ...	"	15 "	"	1 2 6	
	India-rubber, Stock, camel back, for re-treading—					
96	5 1/2" x 3/8" ...	"	80 lb.	lb.	£0 1 1	
97	5 1/2" x 3/8" ...	"	80 "	"	£0 1 1	
† 98	6" x 1/2" ...	"	350 "	"	£0 1 1	Golding's Pty. Ltd.
99	7 1/4" x 3/8" ...	"	900 "	"	£0 1 1	

† Less 2 1/2% discount—30 days.

INDIA-RUBBER GOODS, PACKING, ETC.—continued.

Item No.	Description	Country of Manuf're.	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
†100	Rollers, Feed, for Edison Mimeograph ...	Vict. (partly)	350	each	0 0 11	Barnet Glass Rubber Co. Ltd.
†101	Solution, I.R., in 4-gal. tins ...	"	175 lb.	lb.	0 0 8½	Dunlop Perdriau Rubber Co. Ltd.
†102	Solution, Vulcanizing, in 4-gal. tins ...	"	300 "	4 gal. tin	†1 4 6	Barnet Glass Rubber Co. Ltd.
†103	Tips, Finger, pinnacle type ...	"	450 doz.	dozen	0 0 6½	
†104	Fingerettes, I.R., Red (medium) ...	"	40 "	"	0 2 0½	
†105	Tubing, ¾" diameter x ⅛" wall, for gas ...	"	40 feet	foot	0 0 2½	Dunlop Perdriau Rubber Co. Ltd.
†106	Tubing, ¼" diameter x ⅛" wall, for acid ...	"	80 "	"	0 0 3	
†107	Tubing, ½" diameter, for gas ...	"	30 "	"	0 0 2½	
†108	Goloshes, Men's, any size as ordered ...	"	45 pairs	pair	†0 3 0	
	Plugs, I.R., basin, with N.P. rings and screwed bolts and nuts—					
†109	1½" ...	"	8 doz.	doz.	†0 3 3	Barnet Glass Rubber Co. Ltd.
†110	2" ...	"	2 "	"	†0 3 9½	
*111	Rings, I.R., grey, 4⅞" inside diameter x ⅜" wall x ⅛" thick	"	120 "	"	0 0 10	
*112	Washers, I.R.— Cushion, 4¼" x 2" x 2⅞" hole	"	2 "	"	1 8 4	
†113	Gauge Glass, flat or round, as ordered any sizes ordered	"	6 "	"	0 0 7½	Dunlop Perdriau Rubber Co. Ltd.
†114	Gauge Glass, hexagonal, for "B. & W." Boilers 250 lb. pressure	"	30 "	"	0 1 0	
*115	Gauge Glass, with insertion, ⅜" ...	"	20 "	"	0 1 7	
*116	Gauge Glass, Flat, with insertion, 1⅞" x ⅞" x ⅞"	"	40 "	"	0 1 8	
†117	Royle's Union	"	10 "	"	0 1 6½	Barnet Glass Rubber Co. Ltd.
†118	Hose Coupling, Packing Rings for ¾" Head, to Blue Print, dated 31.8.34	"	250 "	"	†0 1 5	Hardie Rubber Co. Ltd.
†119	Hose Coupling, Packing Rings for 1" Head, to Blue Print, dated 31.8.34	"	2800 "	"	†0 1 5½	
PACKING, ETC.						
†120	Packing, Asbestos, for Valve Glands "Golden Fibre"	U.K.	20 lb.	lb.	0 8 6	Jas. Walker & Coy. (A'sia.) Ltd.
†121	Packing, Asbestos, for Valve Glands, "Russett Fibre"	"	100 "	"	0 8 6	
†122	Packing Asbestos, Cord or Yarn. "Cape Asbestos Co. Ltd."	"	1500 "	"	0 1 2½	Gilbert Lodge & Co. Ltd.
†123	Packing Asbestos, Millboard, any thicknesses ordered. "Cape Asbestos Co. Ltd."	"	5000 "	"	0 0 3½	

† Less 2½% discount—30 days.

INDIA-RUBBER GOODS, PACKING, ETC.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate £. s. d.	Name of Contractor
PACKING—continued.						
†124	Packing, (Sunlight), "Tuck's" $\frac{1}{8}$ "	U.K.	800 lb.	lb.	0 0 11	Tuck's
125	Packing, Patent, for use in joints of water, steam or air installations—"Tuxite"	"	"	"	0 1 1	
†126	$\frac{1}{8}$ "	"	4000 "	"	0 0 11	
127	$\frac{1}{8}$ "	"	"	"	0 0 11	
128	Packing, Patent, for use in joints, which may be in contact with air, oil, motor spirit or benzol—"Gaskoid"	"	"	"	"	Mica & Insulating Supplies Co.
†129	$\frac{1}{8}$ "	"	150 "	"	0 4 0	
130	Packing, Greasy Hemp; Square—"Tucks"	Vict.	30 "	"	0 0 9	Tuck's
131	$\frac{1}{2}$ "	"	70 "	"	0 0 9	
132	$\frac{3}{4}$ "	"	180 "	"	0 0 9	
†133	$\frac{1}{2}$ "	"	70 "	"	0 0 9	
134	$\frac{3}{4}$ "	"	30 "	"	0 0 9	
135	1"	"	350 "	"	0 0 9	
†136	Packing, Round, $\frac{3}{4}$ " "Snowflake"	"	40 "	"	0 2 6	Hardie Rubber Co. Ltd.
137	Packing, Round or Square, as ordered—"Paragon"	N.S.W.	100 "	"	10 2 4	
138	$\frac{5}{16}$ "	"	380 "	"	10 2 4	
139	$\frac{3}{8}$ "	"	20 "	"	10 2 0	
†140	$\frac{1}{2}$ "	"	250 "	"	10 1 9	
141	$\frac{5}{8}$ "	"	280 "	"	10 1 9	
142	$\frac{3}{4}$ " and over	"	2000 "	"	10 1 8	
†143	Asbestos Compound "Minerals Ltd."	"	20 cwt.	cwt.	0 12 0	McPherson's Pty. Ltd.
144	Asbestos Graphite, Compounded, suitable for Superheat Temperature, Piston and Valve Spindle Stuffing Boxes—"Loco"	Vict. (partly)	450 lb.	lb.	0 3 0	Tuck's
†145	$\frac{1}{2}$ " dia.	"	800 "	"	0 3 0	
†146	$\frac{1}{2}$ " square	"	175 "	"	"	Nil.
147-160—Nil						

† Less 2½% discount—30 days.

BUILDING AND CONCRETE SAND

7. The Sand shall be clean and free from foreign matter, and shall be delivered properly loaded into railway trucks at the station named, and consigned as ordered. The proper loading of the Sand into railway trucks shall include so lining the trucks with paper as to prevent the Sand escaping, and the Contractor shall be liable for any loss of Sand arising, in the judgment of the Comptroller of Stores, from the Contractor's failure or neglect to so line the trucks, and the amount of such loss as assessed by the Comptroller of Stores shall from time to time be borne by the Contractor, and may be deducted from any moneys due to him by the Corporation.

8. Measurement will be made at the Railway Station from which the Sand is consigned.

9. Inspection will be made at the Railway Station or destination to which the Sand is consigned.

As regards items 162—163A, orders should be placed on the most advantageous contractor, having regard to rate, suitability and place of delivery.

Other purchases of sand under agreement shall not be regarded as an infringement of these contracts.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	SAND—				£ s. d.	
†161	Coarse, delivered in trucks at Pyalong ...	Vict.	1750 c. yds.	cubic yard	0 2 0	F. Easton
†162	Medium, delivered in trucks at Frankston	"	1500 "	"	0 1 8	Construction Sand Ltd.
†162A	Medium, delivered in trucks at Cranbourne	"		"	0 1 9	Cranbourne Sand Pty. Ltd.
†162B	Medium, delivered in trucks at Pyalong	"		"	0 2 0	} F. Easton
†163	Coarse, for concrete work, delivered in trucks at Pyalong	"	1750 "	"	0 2 0	
†163A	Coarse, for concrete work, delivered in trucks at Koo-wee-rup	"		"	0 3 9	Plowright Albion Koo-wee-rup Washed Sand & Gravel Co. Pty. Ltd.
164	Nil					

SAND FOR LOCOMOTIVES AND MOULDING PURPOSES.

7. The Sand shall be delivered, properly loaded into railway trucks at the station named, and consigned as ordered. The proper loading of the Sand into railway trucks shall include lining the trucks with paper so as to prevent the Sand escaping, and the Contractor shall be liable for any loss of Sand arising, in the judgment of the Comptroller of Stores, from the Contractor's failure or neglect to so line the trucks, and the amount of such loss as assessed by the Comptroller of Stores shall from time to time be borne by the Contractor, and may be deducted from any moneys due to him by the Corporation.

8. Measurement will be made at the railway station from which the Sand is consigned.

9. Inspection will be made at the railway station or destination to which the Sand is consigned.

†165	Sand, for Locomotives delivered in trucks at Carisbrook	Vict.	1000 c. yds.	cubic yard	0 1 10	J. Landrigan
†166	Sand, for Brass Moulding purposes delivered in trucks at Essendon	"	40 "	"	0 14 0	E. T. Hughes
†167	Sand, fine, Sea, for Blacksmiths use, delivered in trucks at Seaford	"	175 "	"	0 3 0	} Frankston and Kelvin Sand Pits
†168	Sand, fine, Sea, for foundry use, delivered in trucks at Seaford	"	450 "	"	0 3 0	
169	Nil					

INFUSORIAL EARTH (GROUND).

7. The material required is that known as Infusorial Earth, i.e., Diatomaceous Earth, free from stones and foreign matter.

The Infusorial Earth (Diatomaceous Earth) shall be ground ready for mixing.

8. The empty bags will be returned by the Corporation to the Contractor from time to time at the Metropolitan Receiving Depot, Spencer-street. Any bags not returned shall be paid for at the rate of 2/- per dozen.

Item No.	Description	Country of Manuf're.	Estimated Requirements	Rate per	Rate	Name of Contractor
†170	Earth, Infusorial, in bags, which will remain property of Contractor, delivered Spencer-street	Vict.	10 tons	ton	£ s. d. 5 12 6	S. N. Rodda Pty. Ltd.

ROPE AND TWINES, ETC.

7. The Rope to be supplied under Items 185 to 190 inclusive shall be packed in hessian. The hessian packing will, as far as practicable, be returned to the Contractor at the Metropolitan Receiving Depot, Spencer-street.

8. Net weight of Rope only will be paid for.

9. As regards Items 189 and 190, any $1\frac{1}{4}$ " or $2\frac{1}{4}$ " Rope ordered shall have one blue strand in each Rope in addition to the blue yarn in one strand, or one blue yarn in each strand as specified respectively.

10. As regards Item 201, the rate includes Telegraphic Transfer Exchange between Australia and London at $25\frac{1}{2}\%$, and if this rate of Exchange be varied during the contract period, the difference calculated on 50% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

11. The Straw Rope is to be equal in quality with that previously supplied by E. Berriman.

	Cord, Sash, Cotton Braided, in coils—					
†171	No. 6	Vict. (partly)	50 lb.	lb.	0 1 3 $\frac{3}{4}$	M. Donaghy & Sons Pty. Ltd.
†172	No. 7	"	10 "	"	0 1 3 $\frac{3}{4}$	
†173	No. 8	"	400 "	"	0 1 3 $\frac{3}{4}$	
†174	No. 9	"	50 "	"	0 1 3 $\frac{3}{4}$	
†175	No. 10	"	30 "	"	0 1 3 $\frac{3}{4}$	
†176	Cord, Sash, Braided, Flax or Italian Hemp	Vict.	550 "	"	0 1 4 $\frac{1}{4}$	Nil
†177	Cord, Whip, any sizes ordered	"	40 "	"	"	
†178	Cord, Marking (Chalk)	"	70 "	"	"	
†179	Cord, Nicking Line, any sizes ordered	Vict. (partly)	250 "	"	0 2 2	M. Donaghy & Sons Pty. Ltd.
†180	Packing, Flax, pure	"	12 cwt.	"	0 1 2 $\frac{1}{2}$	
†181	Rope, Clothes Line, Flax $\frac{3}{4}$ " circ.	"	3 "	cwt.	2 6 0	
	Rope, Straw, in bundles, delivered f.o.r. Ballarat					
182	$\frac{1}{2}$ "	Vict.	20 bdis	bdle.	0 1 9	E. Berriman
183	$\frac{3}{4}$ "	"	20 "	"	0 1 6	
184	1"	"	50 "	"	0 1 6	
†185	Rope, Europe, bolt, entirely of new Russian hemp, up to 3", as ordered, with blue worsted thread in one strand	Vict. (partly)	200 cwt.	cwt.	4 1 0	James Miller & Co. Pty. Ltd.
	Rope, Manila, fine and long fibre, with blue worsted thread in one strand—					
†186	$\frac{1}{2}$ " up to $2\frac{1}{2}$ ", as ordered	"	100 "	"	3 3 6	M. Donaghy & Sons Pty. Ltd.
†187	Over $2\frac{1}{2}$ " up to 12", as ordered	"	80 "	"	3 3 6	

ROPE AND TWINES, ETC.—continued.

Item No.	Description.	Country of Manuf're.	Estimated Requirements	Rate. per	Rate.	Name of Contractor.
†188	Rope, Manila, stretched, for power transmission, 4" circ., 3 strand, with one blue yarn in one strand	Vict. (partly)	100 cwt.	cwt.	£ 3 10 0	M. Donaghy & Sons Pty. Ltd.
†189	Rope, New Zealand Hemp, 1" to 2", as ordered, with blue yarn in one strand (1½" Rope to have in addition one blue strand in each Rope)	"	700 "	"	2 6 0	
†190	Rope, New Zealand Hemp, 2½" to 3", as ordered, with one blue yarn in each strand (2½" Rope to have in addition one blue strand in each Rope.)	"	1500 "	"	2 6 0	
†191	Rope, Lashing, New Zealand Flax	"	35 "	"	2 4 9	
†192	Marline, 3 cord, in 1 lb. hanks	Vict.	1000 lb.	lb.	0 0 11½	
†193	Spun yarn, Jute	Vict. (partly)	300 "	cwt.	2 4 9	
†194	Twine, Binder, free of oil, in 4½ lb. balls, 425 feet per ball, approx.	"	50 cwt.	"	2 4 0	
†195	Twine, Fine, in ½ lb. balls	"	2500 lb.	lb.	0 0 10½	G. Kinnear & Sons Pty. Ltd.
†196	Twine, Medium, in ½ lb. balls	"	2000 "	"	0 0 10	
†197	Twine, Coarse, in ½ lb. balls	"	800 "	"	0 0 9½	
†198	Twine, Seaming, Flax, 3-ply "Emu"	Vict.	1200 "	"	0 2 0½	M. Donaghy & Sons Pty. Ltd.
†199	Twine, Coarse, Special, for Trimmers' use	"	900 "	"	0 0 9½	
†200	Twine, Mattress, No. 2, 4-ply in 1 lb. balls	"	1500 "	"	0 1 5½	Frank & Bryce Ltd.
†201	Twine, Machine, best 6 cord, right or left hand twist, as ordered, in 1 lb. kops, best pure linen thread, "Dunbar's Red Label"	U.K.	4200 "	"	0 5 8½	
†202	Twine, Machine, best 5 cord, right or left hand twist, as ordered, in 1 lb. kops, best pure linen thread, "Emu"	Vict.	300 "	"	0 2 0½	G. Kinnear & Sons Pty. Ltd.
203-204	Nil					

CANVAS AND CANVAS HOSE

7. The Canvas shall be composed of "All Long Flax," and shall be free from dressing and every foreign substance, and each bolt of Canvas shall be branded so as to show clearly the Contract weight, in ounces, per square yard, and shall be of the full weight specified when delivered.

8. Each delivery of the Canvas may, at the option of the Corporation, be subjected to the following tensile tests, viz. :—

Strips of Canvas may be tested on a "Goodbrand's" Cloth Testing Machine, and shall then show an average tensile strength on the warp and weft respectively, as follows, viz. :—

Item Nos. and Description.	Average on each of 12 strips, 12 x 1	
	On Warp.	On Weft.
...	lb.	lb.
205 and 212, 33 oz. Canvas ...	270	530
206 and 213, 30 oz. Canvas ...	250	500
207 and 214, 22 oz. Canvas ...	225	390
208, 20 oz. Canvas ...	200	390
209, 18 oz. Canvas ...	225	280
210, 16 oz. Canvas ...	200	250
211, 14 oz. Canvas ...	200	215
216, OO, Bleached Canvas ...	185	330
217, Lavender, 18 oz. ...	125	125

9. The Canvas shall be supplied in bolts, each consisting of one piece, approximately 50 yards in length, and branded with the exact length.

CANVAS AND CANVAS HOSE—continued.

10. HOSE FOR FIRE EXTINCTION PURPOSES—Item No. 219.

The Hose shall be $2\frac{1}{2}$ inches in diameter. It shall be manufactured of long clean flax, free from tow or other fabric. The web shall consist of not less than 12 strands.

The Hose shall be capable of withstanding an internal static pressure of 300 pounds per square inch, and a working pressure of 150 lbs. per square inch.

The Hose shall be supplied in lengths which will cut into lengths of 100 feet or multiples thereof without waste.

A statutory declaration will be furnished by the Corporation to the Contractor that the Hose supplied has been installed for fire extinguishing purposes after it has been actually installed, which should reasonably be within a period of six months after delivery.

CANVAS BAGS AND BOTTLES.

11. Item No. 220.—The Canvas Tool Bags shall be made from the heaviest description of flax Canvas free from dressing and sewn with the best 6 cord Linen Thread—the bottom shall be manufactured from the best sole leather.

12. Item No. 221.—The Canvas Water Bags shall be made from the best 28 oz. pure flax bleached Canvas sewn with the best 6 cord Linen Thread. All seams shall be double sewn. A metal tap shall be fitted in lieu of the old style of Canvas tube.

13. Item No. 222.—The Canvas Water Bottles shall be made of all long flax Canvas, free from dressing and not less than 20 oz. per square yard. They shall be sewn with the best six cord Linen Thread.

EXCHANGE AND DELIVERY.

The rates for Items 206 to 209, 211, 213, 214 & 216 include T.T. Exchange at $25\frac{1}{2}\%$, and if on the date of delivery of any service the Telegraphic Transfer Exchange rate between Australia and London is more or less than the rate mentioned, the variation shall be to the Corporation's account, calculated on the c.i.f. value, as disclosed by Contractor's documents.

The rates for items 210 and 212 include T.T. Exchange at $25\frac{1}{2}\%$ and if on the date of the bill of Lading for any service the Telegraphic Transfer Exchange rate between Australia and London is more or less than the rate mentioned the variation shall be to the Corporation's account and will be calculated on the C.I.F. value, as disclosed by Contractor's documents.

As regards items 218 and 219, the rates include Telegraphic Transfer Exchange between Australia and London at $25\frac{1}{2}\%$, and if this rate of Exchange be varied during the contract period, the difference calculated on 60% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

No adjustment for Exchange will be made as regards item 217.

As regards item 218, 12 weeks from commencing date of contract will be allowed for importation of stocks.

As regards Items Nos. 206 to 216.—Canvas—10 weeks will be allowed for delivery to permit of importation after issue of order, and should, during the period of the contract, purchases elsewhere be necessary to meet urgent requirements, such purchases shall not be regarded as an infringement of this Contract.

Names of manufacturers.—Item 206–209, 211, 213, 214 and 216—M. C. Thomson & Co. Ltd., Glasgow

210, 212—Richards Ltd., Aberdeen

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Canvas, 36" wide—				£ s. d.	
†205	33 oz. per square yard					Nil
†206	30 oz. " No. 1 Quality	U.K.	2000 l. yds. lin. yd.		0 3 9 $\frac{3}{4}$	John Edmondson & Co. Pty. Ltd.
†207	22 oz. " "	"	1750 " "		0 2 10 $\frac{1}{2}$	
†208	20 oz. " "	"	3500 " "		0 2 8 $\frac{1}{2}$	
†209	18 oz. " "	"	4000 " "		0 2 5 $\frac{1}{4}$	
†210	16 oz. " "	"	4000 " "		0 2 2 $\frac{3}{4}$	Elder Smith & Co. Ltd.
†211	14 oz. " No. 1 Quality	"	3500 " "		0 2 1 $\frac{3}{4}$	John Edmondson & Co. Pty. Ltd.

CANVAS AND CANVAS HOSE—continued.

Item No.	Description.	Country of Manufre.	Estimated Requirements	Rate per	Rate.	Name of Contractor.
	Canvas, 24" wide—				£ s. d.	
†212	33 oz. per sq. yard ...	U.K.	2000 l. yds.	lin. yd.	0 2 8½	Elder Smith & Co. Ltd.
†213	30 oz. per sq. yard, No. 1 Quality ...	"	1750 "	"	0 2 6½	John Edmondson & Co. Pty. Ltd.
†214	22 oz. per sq. yard " "	"	1750 "	"	0 1 11½	
†215	20 oz. per sq. yard, Water Bag Quality ...	"	2500 "	"	"	Nil
†216	OO, Bleached, 28 oz. per sq. yard No. 1 Quality	"	75 "	"	0 2 0½	John Edmondson & Co. Pty. Ltd.
†217	Canvas, 72" wide, Lavender, 18 oz. "Richards"	U.K. & Vict.	600 "	"	0 5 4	
	Canvas Hose—					Gair Manufacturing Co. Pty. Ltd.
†218	Hose, Canvas, 2½", for other than fire extinction purposes "Richards"	U.K.	9000 feet	foot	0 0 9½	Gilbert Lodge & Co. Ltd.
†219	Hose, Canvas, 2½", for fire extinction purposes, "LM 12 strand"	"	4500 "	"	0 0 9½	
*220	Bags, Tool, Canvas ...	Vict.	20	each	0 6 7	Chief Mechanical Engineer
*221	Bags, Water, Canvas ...	"	60	"	0 8 6	
*222	Bottles, Water, Canvas ...	"	1800	"	0 1 9	
*222A	" " " without Rope handles	"	"	"	0 1 7½	Nil
*223	Necks, for Canvas Water Bottles ...	"	250 doz.	"	"	
224-227	Nil					

TENTS AND FLIES.

7. The Tents and Flies shall be manufactured from GOOD QUALITY 10-ounce per square yard Duck, free from dressing and every foreign substance.

The Tents and Flies shall be branded with the Contractor's name, in letters not exceeding 1½"

The tents and flies shall be made with ridge bands in one length, and of a quality at least equal to 10-ounce Duck.

All eyelet holes shall be strongly reinforced with canvas patch—eyelets to be of extra strong quality.

Tents to have a wall height of 3 ft. and be made with door flap of at least 6 inches.

Forty feet of ¾ inch New Zealand Rope shall be supplied with each tent and each fly.

Linen thread only shall be used.

*†228	Tents, Duck, 6' x 8', to specification and sample submitted	Vict.	100	each	1 6 11	The Gair Manufacturing Co. Pty. Ltd.
*†229	Flies, Duck, 8' x 10' for 6' x 8' Tents, to specification	"	100	"	0 13 11	

LEATHER GLOVES.

*†230	Gloves, Chrome Tanned Leather Palm, and canvas back, all leather thumb, extra chrome round first finger	Vict.	6500 pairs	pair	0 1 3	Robert S. Don Pty. Ltd.
*†231	Gloves, Chrome Tanned Leather Palm, and canvas back, leather fingers (for use at Reclamation Depot)	"	100 "	"	0 1 3½	J. & J. Smith
*†232	Gloves, all Chrome Tanned Leather, with inturned seams	"	750 "	"	0 2 0	Robert S. Don Pty. Ltd.

WIRE ROPE

8. As regards items 234, 248-251 the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 50% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

NAME OF MANUFACTURERS.—Items 233 and 235-247—Australian Wire Rope Works Ltd.

234 and 248-251—John Shaw Ltd., Sheffield

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Rope, Steel Wire, flexible, galvanized, 6 strands, 90 tons per square inch—				£ s. d.	
	Circum. Construction Guaranteed Strength of Rope Aggregate Breaking Strength of Rope					
233	1" 6/7 3½ cwt. ...	N.S.W.	1500 feet	foot	0 0 1½	Inglis Smith & Co. Pty. Ltd.
234	1½" 6/19 72 tons 82 tons	U.K.	2500 "	"	0 0 1½	Hardware Co. of Australia Pty. Ltd.
235	1½" 6/19 22 cwt. ...	N.S.W.	10,000 "	"	0 0 2	
236	1½" 6/19 32 "	"	3000 "	"	0 0 2½	
237	1" 6/19 2·9 tons 3·3 tons	"	1400 "	"	0 0 2½	
238	1½" 6/19 4·5 " 5·1 "	"	350 "	"	0 0 2½	
239	2½" 6 strand, 12 wires per strand, for tail ropes 14·8 tons 16·5 tons	"	2000 "	"	0 0 6½	
	Rope, Steel Wire, extra flexible, galvanized, 6 strands, 24 wires per strand, 90 tons per square inch—					
	Circum. Tons Tons					
240	1" 2·8 3·3	"	3500 "	"	0 0 2½	Inglis Smith & Co. Pty. Ltd.
241	1½" 4·3 4·9	"	7000 "	"	0 0 3	
242	1½" 6·0 6·8	"	6500 "	"	0 0 3½	
243	1½" 8·5 9·7	"	350 "	"	0 0 4½	
244	2" 10·9 12·4	"	4500 "	"	0 0 5	
245	2½" 14·2 16·2	"	2000 "	"	0 0 6½	
246	2½" 17·2 19·7	"	11,000 "	"	0 0 6½	
247	Rope, Steel Wire, flexible, 21 gauge (seizing wire).	"	3500 "	"	0 0 0½	
	Rope, wire flexible, black, best patent steel, acid, 80/90 tons per square inch, 6 strands, 19 Wires per strand (for use on Lifts)—					
	Circum. Tons Tons					
248	1½" 8·1 9·3	U.K.	1000 "	"	0 0 5	
249	2" 11·1 12·7	"	1000 "	"	0 0 6	
250	2½" 13·9 15·9	"	1000 "	"	0 0 6½	Hardware Coy. of Australia Pty. Ltd.
251	2½" 17·0 19·5	"	1000 "	"	0 0 7½	
252 and 253	Nil					

BELTING, LEATHER, AND LEATHER GOODS

(Items 278, 279 and 284—Period 1/10/34 to 30/9/35).

7. SPECIFICATION FOR ITEMS 254 to 256.

The Belts shall be in accordance with Australian Standard Specification No. B. 4/1931 for Vegetable Tanned Leather Belting, and Clause 16 relating to sewing shall be complied with.

8. SPECIFICATION FOR LAMINATED BELTING.—Items 257 to 260.

The Laminated Belting shall be straight and well stretched. The laminations shall be of even grade and thickness. The edging shall be of sufficient thickness to satisfactorily cover the sticking.

All workmanship and material shall be of the very best quality for the purpose.

9. SPECIFICATION FOR RUBBER BELTING.—Item 265-265B.

The Belting shall be in accordance with the Australian Standard Specification No. B. 5/1933 T.

10. SPECIFICATION FOR TRAIN LIGHTING BELTING.—Items Nos. 269 and 270.

The Belting shall be in accordance with Australian Standard Specification No. B. 5—1933 T. as applied to transmission belting, except that the surface of the belting shall be so treated to enable it to withstand the frictional heat set up when the belt slips on the train lighting dynamo pulley.

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

11. The Leather Basils supplied under Item No. 271 shall have an area of not less than 7 sq. ft.

SPECIFICATION FOR LEATHER BUTTS.

12. The Butts supplied under Item No. 276 shall be of uniform thickness and special quality, properly trimmed, and shall be free from flesh cuts, blemishes and brands. The Butts shall be prepared with the constituents as in the sample, and shall be close in grain, very firm and capable of resisting an air pressure of not less than 60 lbs. per square inch. The leather shall not be too dry, as it has to be moulded into shape which bends the Butts at right angle.

13. As regards Item No. 277, the Butts shall be trimmed to a uniform thickness of approx. $\frac{1}{4}$ inch. Tenderer to submit a complete trimmed hide as a sample.

14. As regards Item No. 278, the Leather Butts shall be of even grade and thickness in accordance with contract sample and suitable for the manufacture of Westinghouse Brake Washers. They shall be of the very best quality for the purpose.

15. SPECIFICATION FOR LEATHER BUTTS.—Item No. 279.

The Butts shall be free from flesh cuts, blemishes and brands and be of uniform thickness, special quality, and properly trimmed, not to exceed 27" wide, shall be close in grain, suitable for Westinghouse Brake Washers.

16. SPECIFICATION FOR CHROME TRIMMING LEATHER.—Item No. 286.

The Leather shall be supplied in Hides, approximately 54 sq. ft. in each, shall be soft and pliable, free from flesh cuts, blemishes and brands, and the color shall be fast.

As regards contracts with Dunlop Perdriau Rubber Coy. Ltd. and Barnet Glass Rubber Coy. Ltd., the rates are subject to variation as set out for items 1808—1808B.

‡ As regards items 265 to 270; rates are subject to 33 $\frac{1}{3}$ % discount, and 2 $\frac{1}{2}$ % discount for payment in 30 days.

Orders for items 265 to 270, are to be issued in the following proportions :—

Dunlop 56%	} of Department's requirements, Barnet Glass to be allotted all orders under Items 269 and 270, which are to be taken as part of their proportion. S. House Manager to note and so arrange
Barnet Glass 28%	...	...
Goodyear 16%	...	...

* Contract period 1/10/34 to 30/9/35.

BELTING, LEATHER AND LEATHER GOODS—continued.
ITEMS 265, 265A & 265B, BELTING PRICE LIST. PER LINEAL FOOT.

All Contractors							*Barnet Glass and Dunlop Perdrion only	
Width	3-Ply.	4-Ply.	5-Ply.	6-Ply.	7-Ply.	8-Ply.	9-Ply.	10-Ply.
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
1" ...	0 5	0 8	...	...	...	...	...	...
1½" ...	0 7½	0 10	...	...	...	...	...	...
2" ...	0 9½	0 11½	...	...	...	...	...	...
2½" ...	0 11½	1 2½	*1 5½	...	...	...	...	...
3" ...	1 1	1 5	1 10	...	...	...	...	...
3½" ...	1 2	1 8	2 1	...	...	...	...	...
4" ...	1 3	1 10	2 4	3 0	...	...	...	...
4½" ...	*1 9	2 1	2 7	3 2	...	...	...	...
5" ...	*2 0	2 5	2 10	3 4	...	...	...	...
5½" ...	...	2 9	3 2	3 8	...	...	...	...
6" ...	...	3 0	3 6	4 0	4 6	...	...	...
7" ...	...	3 6	4 0	4 6	5 0	...	...	...
8" ...	...	4 2	4 8	5 2	5 10	6 7	...	...
9" ...	...	...	5 6	6 2	6 10	7 6	...	...
10" ...	...	...	6 3	7 0	7 9	8 6	...	...
11" ...	...	...	6 8	7 6	8 4	9 3	...	...
12" ...	...	...	7 0	7 11	8 10	9 11	11 0	...
14" ...	...	...	7 9	10 0	11 8	13 0	14 4	...
16" ...	...	...	...	12 0	13 6	15 0	16 6	18 0
18" ...	...	...	...	14 0	15 9	17 6	19 3	21 0
20" ...	...	...	...	16 0	18 0	20 0	22 0	24 0
22" ...	...	...	...	18 0	20 0	22 0	24 0	26 0
24" ...	...	...	...	20 0	22 0	24 0	26 0	28 0
26" ...	...	...	...	22 0	24 0	26 0	28 0	30 0
28" ...	...	...	...	24 0	26 0	28 0	30 0	32 0
30" ...	...	...	...	26 0	28 0	30 0	32 0	34 0

ITEMS 257-260. LAMINATED LEATHER BELTING PRICE LIST. PER LINEAL FOOT.

LIGHT, ABOUT $\frac{1}{16}$ -INCH THICK.

Width.	Per Foot.	Width.	Per Foot.	Width.	Per Foot.
Inches.	s. d.	Inches.	s. d.	Inches.	s. d.
1	1 3	2½	3 0	4	4 9
1½	1 6	2¾	3 3½	4½	5 0
1½	1 10	3	3 6	4½	5 4
1¾	2 2	3¼	3 9	5	5 9
2	2 6	3½	4 0	5½	6 3
2½	2 9	3¾	4 6	6	6 9

MEDIUM, ABOUT $\frac{3}{8}$ -INCH THICK.

2	3 3	3½	5 4	6	9 3
2½	3 6	3¾	5 9	6½	10 0
2½	3 9	4	6 2	7	10 9
2¾	4 2	4½	7 0	8	12 3
3	4 6	5	7 9	9	13 9
3½	5 0	5½	8 6	10	15 3

STOUT, ABOUT $\frac{1}{2}$ -INCH THICK.

3	5 7	7	13 0	14	25 9
3½	6 6	8	14 9	15	28 0
4	7 6	9	16 6	16	30 0
4½	8 6	10	18 3	17	32 0
5	9 6	11	20 0	18	33 9
5½	10 6	12	22 0	20	37 6
6	11 3	13	24 0	24	45 0

BELTING, LEATHER AND LEATHER GOODS—continued.

ITEMS 257-260. LAMINATED LEATHER BELTING PRICE LIST, PER LINEAL FOOT—continued.

Extra Stout, about $\frac{5}{8}$ -inch Thick.

Width inches	per foot s. d.	Width inches	per foot s. d.	Width inches	per foot s. d.
4	9 0	12	26 3	28	61 9
5	11 0	13	28 6	32	70 0
6	13 3	14	30 9	36	79 0
7	15 3	15	32 9	40	88 6
8	17 3	16	35 0	44	96 0
9	19 6	18	39 6	48	103 6
10	21 9	20	44 0	...	...
11	24 0	24	52 6	...	...

If ordered endless, to be joined up on the job, an extra charge is made.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Belting, Leather, Copper, sewn—"Non-Waterproof"—				£ s. d.	
†254	Single, up to 4" wide, as ordered	Victoria	1400 sq. ft.	sq. ft.	0 2 6	Joshua Pitt Pty. Ltd.
†255	Double, up to 4" wide, as ordered	"	600 "	"	0 5 2½	
†256	Double, 4½" to 6" wide, as ordered, 2 rows stitching	"	100 "	"	0 5 5½	
	Belting, Leather, Laminated, Endless, or otherwise, any widths ordered—				Percentage off Price List furnished with the tender, which shall be firm during the period of this contract.	
257	5/16 thick	"	75 ft.	lin. ft.	Less 20% and 17½%	Geo. Pizzey & Son Ltd.
258	¾" "	"	80 "	"		
259	½" "	"	100 "	"		
260	⅝" "	"	60 "	"		
	Threads for jointing laminated belting—					
261	25' long, for 5/16" thick belts	Vict. (partly)	1 doz.	dozen	0 7 0	Geo. Pizzey & Son Ltd.
262	" " " ¾" " "	"	2 "	"	0 7 0	
263	" " " ½" " "	"	1 "	"	0 8 0	
264	" " " ⅝" " "	"	1 "	"	0 8 0	
	Belting, Rubber, High Speed Transmission, flat (sizes shown in price list above)—				Percentage off Price Lists	
†265	Price List No. 141-1/5/34 "Titan"	"	£800	lin. ft.	† less 33½%	Dunlop Perdriau Rubber Co. Ltd.
†265A	Price List No. 6-1/5/34 "Red Transmission Belting"	"		"		Barnet Glass Rubber Co. Ltd.
†265B	Price List No. M.G. 17-1/8/32 "Wingfoot" Transmission Belting	N.S.W. (partly)		"		Goodyear Tyre & Rubber Co. of A'asia Ltd.
	Belting, Rubberised Canvas—					
†266	4" wide, x 4-ply in lengths 9' 4" "Titan"	Victoria (partly)	1000 lin. ft.	"	†0 1 10 less 33½%	Dunlop Perdriau Rubber Co. Ltd.
†266A	4" wide x 4-ply, in lengths 9' 4" "Red Transmission belting"	"		"		Barnet Glass Rubber Co. Ltd.
†266B	4" wide x 4-ply in lengths 9' 4" "Wingfoot" Transmission belting	N.S.W. (partly)		"		Goodyear Tyre & Rubber Co. of A'asia Ltd.

† Less 2½% payment 30 days

BELTING, LEATHER AND LEATHER GOODS.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
†267	Belting, Rubberised Canvas—continued— 3" wide x 4-ply in lengths 5' 8" ...	Victoria (partly)	1200 lin. ft.	lin. ft.	10 1 5 less 33½%	Dunlop Perdriau Rubber Co. Ltd.
†267A	"Titan" 3" wide x 4-ply in lengths 5' 8" ...	"		"		Barnet Glass Rubber Co. Ltd.
†267B	"Red Transmission belting" 3" wide x 4-ply in lengths 5' 8" ... "Wingfoot" Transmission belting	N.S.W. (partly)		"		Goodyear Tyre & Rubber Co. of A'asia Ltd.
†268	3" wide x 4-ply in lengths 6' 2" ...	Victoria (partly)	200 "	"	10 1 5 less 33½%	Dunlop Perdriau Rubber Co. Ltd.
†268A	"Titan" 3" wide x 4-ply in lengths 6' 2" ...	"		"		Barnet Glass Rubber Co. Ltd.
†268B	"Red Transmission belting" 3" wide by 4-ply, in lengths 6' 2" ... "Wingfoot" Transmission belting	N.S.W. (partly)		"		Goodyear Tyre & Rubber Co. of A'asia Ltd.
†269	Belting, 3" wide x 4-ply, canvas duck, treated with rubber composition, unstitched, for driving train-lighting dynamos "Red Transmission belting"	Victoria (partly)	7500 "	"	10 1 5 less 33½%	Barnet Glass Rubber Co. Ltd.
†270	Belting, 4" wide x 4-ply, canvas duck, treated with rubber composition, unstitched, for driving train—lighting dynamos—"Red Transmission belting"	"	1750 "	"	10 1 10 less 33½%	"
LEATHER.						
†271	Leather— Basil, large size ...	Victoria	6000	each	0 1 4	Michaelis Hallenstein & Co. Pty. Ltd.
†272	Bag, natural color ...	"	300 s. ft.	s. ft.	0 0 11	Zwar Bros. Pty. Ltd.
†273	Bellows, oil dressed ...	"	70 cwt.	cwt.	7 9 3	Geo. Pizzey & Son Ltd.
†274	Bellows, chrome tanned (in sides or hides as ordered)	"	8 "	"	11 5 0	"
†275	Black, satin hide ...	"	450 s. ft.	s. ft.	0 1 1	Michaelis Hallenstein & Co. Pty. Ltd.
†276	Butts, special wax filled ...	"	25 cwt.	cwt.	14 14 0	"
†277	Butts, Harness of an even thickness throughout, prepared in oil, black or brown	"	5 "	"	18 4 0	W. Braithwaite Pty. Ltd.
*†278	Butts, special, black, heavy } 1/10/34— } 30/9/35	"	30 "	"	*14 14 0	"
†279	" " " " light ... } only	"	15 "	"	*16 16 0	"
†280	Chrome ...	"	5 "	"	"	Nil
†281	Harness, Brown ...	Tas.	25 "	"	7 18 8	"
†282	" Black, heavy ...	"	20 "	"	7 18 8	Bryce & Duncan Pty. Ltd.
†283	Rein, Brown, stained ...	Vict.	20 "	"	10 15 0	Zwar Bros. Pty. Ltd.
†284	Sole, Trimmed (1/10/34—30/9/35 only)	"	150 "	"	*10 5 4	W. Braithwaite Pty. Ltd.
†285	Textile, Grey (car blind Material), 36" wide	"	100 l. yds.	l. yds.	"	Nil
†286	Trimming, Black Chrome ...	"	1000 s. ft.	s. ft.	10 1 1	Henry P. Zwar Pty. Ltd.
†287	" Green ...	"	150 "	"	"	Nil
LEATHER GOODS.						
*288	Bags— Cash, large, plain ...	"	100	each	0 3 3	Chief Mechanical Engineer
*289	Cash, Hand, 16" ...	"	5	"	1 11 6	Michaelis Hallenstein & Co. Pty. Ltd.
*290	Tool ...	"	10	"	1 1 0	Chief Mechanical Engineer
†291	Cases, Attache, solid leather, 16" x 9" approx	"	30	"	1 5 3	W. H. Hunter & Coy. Pty. Ltd.
†292	Clogs, strong, split kip, blucher pattern, wooden soles, iron shod, sizes 5 to 10, as ordered "Sample No. 2193"	Tas.	175 pairs	pair	0 6 3	Cuthbertson Bros.
293-4	Nil					

† Less 2½% payment 30 days.

FIRE BRICKS, ETC.

7. The Fire Bricks shall be carefully loaded into trucks at the station named, and be properly packed with straw so as to prevent damage in transit, failing which the Contractor shall be held responsible and liable for any loss or damage which, in the judgment of the Comptroller of Stores, shall arise or occur owing to the Contractor's failure to properly load and pack the Stores.

8. All Fire Bricks shall bear the manufacturer's name or brand.

Place of delivery—

Item No. 296—delivery shall be made direct to the Newport Power House by the Contractor.

Engineering Products Pty. Ltd., item 295, ——— Spencer St., Nonporite Pty. Ltd.,
item 295A ——— Hawthorn, Ordish Firebrick Co. Pty. Ltd. ——— Dandenong.

Sunshine Firebrick Co., item 297A—Sunshine.

As regards items 295 and 295A, a trial order of 30 cwt. should be placed on Nonporite Pty. Ltd. and further ordering will depend on results of test. Storekeeper, Newport Power House, to arrange.

A trial order is to be placed with Sunshine Firebrick Co. under item 297A and further orders will depend on result of test. Storehouse Manager to arrange.

Item No.	Description	Country of Manufre	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
†295	Boiler Covering Composition, soft setting	Vict.	} 110 cwt.	cwt.	1 0 0	Engineering Products Pty. Ltd.
†295A	" " " " "	"		"	0 17 6	Nonporite Pty. Ltd.
†296	Blocks, Cellinsulate, 12" x 8" x 1½"	"	850	each	0 2 0	Engineering Products Pty. Ltd.
	Bricks, Fire, Locomotive—					
†297	Ordinary, Small, to Item No. 1 of Drawing No. 1524	"	} 70,000	100	1 10 0	The Ordish Firebrick Co. Pty. Ltd.
†297A	Ordinary, Small, to Item No. 1 of Drawing 1524	"		"	1 3 0	Sunshine Firebrick Mftg. Co.
†298	Side Carrier, to Item No. 2, Drawing No. 1524	"	28,000	"	2 0 0	
†299	Front Centre, to Item No. 3, Drawing No. 1524	"	28,000	"	2 0 0	
	Bricks Fire, for "N" class engines—					
300	Side Carrier, R.H. to Item 4 of V.R. Drawing 5343	"	850	"	2 0 0	The Ordish Firebrick Co. Pty. Ltd.
301	Side Carrier, L.H. to Item 5 of V.R. Drawing 5343	"	850	"	2 0 0	
302	Front, to Item 6 of Drawing, V.R. 5343	"	2200	"	2 0 0	
	Bricks, Fire, for "S" Class Engines—					
303	Mark "A" Drawing S. 21-24	"	2500	each	0 2 3	
304	Mark "B" Drawing S. 21-25, 11.6.30	"	175	"	0 2 3	
305	Mark "C" Drawing S. 21-25, 11.6.30	"	260	"	0 2 3	
306	Mark "D" Drawing S. 21-25, 11.6.30	"	350	"	0 2 3	
	Bricks, Fire, for "X" Class Engines—					
307	Mark "E" Drawing S. 21-25, 11.6.30	"	150	"	0 2 0	
308	Mark "F" Drawing S. 21-25, 11.6.30	"	700	"	0 2 0	
309	Mark "G" Drawing S. 21-25, 11.6.30	"	175	"	0 2 0	

FIREBRICKS, ETC.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
	Bricks, Fire, to Drawing No. L3607 (Newport Power House)—					
310	Ordinary, 9" x 4½" x 3", Item 1	Vict.	70,000	100	0 16 0	The Ordish Fire-brick Co., Pty. Ltd.
311	Ordinary, 9" x 4½" x 2½", Item 2	"		"	0 16 0	
312	Lump, 12" x 7" x 1" Item 3	"		each	0 0 9	
313	Arch G, Item 4	"		100	0 16 0	
314	Arch H, Item 5	"		"	1 4 0	
315	Arch T, Item 6	"		"	0 16 0	
316	Side Lining E, Item 7	"		each	0 1 0	
317	Side Lining N, Item 8	"		"	0 1 0	
318	Side and Back Wall Y, Item 9	"		100	0 16 0	
319	Baffle K, Item 10	"		each	0 1 0	
320	Baffle M, Item 11	"		"	0 1 3	
321	Baffle F, Item 12	"		"	0 1 0	
322	Baffle P., Item 13	"		100	1 15 0	
323	Baffle "B," P.H. 106, Item 14	"		each	0 1 0	
324	Baffle "B," P.H. 207 L.H., Item 15	"		100	1 15 0	
325	Baffle "B," P.H. 207 R.H., Item 16	"		"	1 15 0	
326	Baffle "B," P.H. 208, Item 17	"		"	1 15 0	
327	Guillotine, No. 2040, Item 18	"		each	0 1 0	
328	Soot Blower Wedge, No. 7, Item 19	"		100	0 16 0	
329	Soot Blower, Tile 4, Item 20	"		each	0 1 6	
330	Soot Blower, Tile 5, Item 21	"		"	0 1 6	
331	Soot Blower, Tile 6, Item 22	"		"	0 1 9	
332	Ash Hopper, Tile 24" x 24" x 3", Item 23	"		"	0 9 6	
	Bricks, Fire, to Drawing M. N. 170-1-42 (Rolling Stock Branch)—					
333	Cone Block, Item 9	"	See next page	"	0 1 0	
334	Straight, Item 12	"		"	0 0 6	
335	Cone Block, Item 13	"		"	0 0 6	
336	Feeder, Item 15	"		100	1 0 0	
337	Straight, 9" x 4½" x 3", Item 16	"		"	0 16 0	
338	Nose, Item 17	"		each	0 1 9	
339	Circle, Item 18	"		100	1 15 0	
340	Feeder, Item 19	"		"	1 0 0	

FIREBRICKS, ETC.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Bricks, Fire, to Drawing M. N. 170-1-42 (Rolling Stock Branch)—continued—				£ s. d.	
341	Feeder, Item 20 ...	Vict.	200,000	100	1 0 0	The Ordish Fire-brick Co. Pty. Ltd.
342	Straight, Small 9", Item 21 ...	"		"	0 16 0	
343	Arch, Item 22 ...	"		each	0 1 0	
344	Burner, Item 23 ...	"		"	0 12 6	
345	Burner, Item 24 ...	"		"	0 12 6	
346	Circle, Item 25 ...	"		100	1 15 0	
347	Key, Item 26 ...	"		"	0 16 0	
348	Wedge, Item 27 ...	"		"	0 16 0	
349	Brick, Item 28 ...	"		"	0 16 0	
350	Circle, Item 29 ...	"		"	2 10 0	
351	Barrel, Item 30 ...	"		each	0 6 0	
352	Barrel End, Item 31 ...	"		"	0 1 3	
353	Wedge, Item 32 ...	"		100	0 16 0	
354	Wedge, Item 33 ...	"		"	0 16 0	
355	Brick, 1½", Item 34 ...	"		"	0 16 0	
356	Circle, Item 35 ...	"		"	2 10 0	
357	Burner, Item 36 ...	"		each	0 15 0	
358	Retorts, Item 37 ...	"		"	0 15 0	
359	Retort Door, Item 38 ...	"		"	0 1 6	
360	Wedge, Item 39 ...	"		100	0 16 0	
361	Feather Edge, Item 40 ...	"		"	0 16 0	
362	Brick, 1", Item 41 ...	"		"	0 16 0	
363	Door Brick, Item 43 ...	"		each	0 1 0	
364	Door End, R.H., Item 44 ...	"		"	0 1 0	
365	Door End, L.H., Item 45 ...	"		"	0 1 0	
366	Slabs, Item No. 46 ...	"		"	0 7 6	
367	Block, Item 47 ...	"		"	0 15 0	
368	Small, 2¼", Item 48 ...	"		100	0 16 0	
369	Small, 1", Item 49 ...	"		"	0 16 0	
370	Clay, Fire, Machine ground ...	"	2000 cwt.	cwt.	0 2 6	Nil
371	Clay, Fire, extra fine ground ...	"	1100 "	"	0 2 9	
372	Furnace Lining, Silacene "Refractive" or suitable alternative.	...	20 "	Nil
373	Nil.					

FOUNDRY COKE.

Period 1/10/34 to 30/9/35.

7. SPECIFICATION FOR COKE.

The Foundry Coke shall be suitable for efficient foundry use, and shall be reasonably free from dust and small pieces.

The Coke shall show on analysis—

Moisture content, about 1%.

Ash content, about 15%.

Sulphur content shall be less than 1 per cent.

Volatile matter shall be less than 2 per cent.

The Coke will be subjected to such tests as may be required by the Comptroller of Stores by and at the cost of the Corporation to ascertain if it is in accordance with this specification, and in the event of its failing to comply it shall be rejected.

The Coke will be ordered in minimum quantities of 150 tons.

The rates do not include wharfage dues of the Melbourne Harbour Trust. The Corporation will arrange clearance.

Delivery will be taken in railway trucks at Victoria Dock, Williamstown, or any other suitable discharging berth at the port of Melbourne at Contractor's option, and payment will be made on the out-turn weights as ascertained over the weighbridges of the Corporation at the place where the ship discharges.

The rate shall be subject to adjustment for variations in Government charges, rail, wharfage and shipping charges, crane dues, subject to the right of the Corporation to cancel the Contract if the rates be increased and deliveries shall be liable to suspension in the event of strikes, lockouts, war, etc.

Item No.	Description	Country of Manufre	Estimated Requirements	Rate per	Rate	Name of Contractor
374	Coke, Foundry, Purified "Mt. Pleasant" (1/10/34—30/9/35).	N.S.W.	750 tons	ton	£ s. d. 2 7 1	Melbourne Steamship Co. Ltd.

FILES AND RASPS.

7. The estimated requirements are based on the full price list.

8. The Files and Rasps for Items 375 to 381 shall be of any description, shape, length or edge ordered.

9. The Tenderer shall submit one sample of each 14 in. Hand Second Cut and 14 in. Hand Bastard File for testing purposes.

10. † As regards items 375 to 384, the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 66⅔% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

	Description	Country	Estimated Requirements	Rate per	Percentage off the Price List submitted with tender, which shall be firm during period of contract.	
†375	Files, bastard, as ordered, "Eagle & Globe Steel Co. Ltd."	U.K.	£700	...	57½%	Eagle & Globe Steel Co. Ltd.
†376	Files, 2nd cut, as ordered, Thomas Firth & John Brown, Ltd. "Chain" Brand	"		...	55%	William Adams Co. Ltd.
†377	Files, smooth, as ordered, Thomas Firth & John Brown, Limited, "Chain" Brand	"		...	55%	
†378	Files, saw, as ordered, "Eagle & Globe Steel Co., Ltd."	"	£350	...	57½%	Eagle & Globe Steel Co. Ltd.
†379	Rasps, wood, as ordered, Thos. Firth & John Brown, "Chain" Brand	"	£80	...	55%	William Adams Co. Ltd.
†380	Rasps, cabinet, as ordered, Thos. Firth & John Brown, "Chain" Brand	"		...	55%	
†381	Rasps, horse (¾ rasp, ¼ file), as ordered, Thos. Firth & John Brown, "Chain" Brand	"		...	55%	
†382	Files, block, valve rubber, bastard cut, 7" x 1½", "B.S.A. Tools Ltd."	"	80	doz.	9 0 0 less 53½%	McPhersons Pty. Ltd.
†383	Files, block, valve rubber, bastard cut, 6" x 1½", "B.S.A. Tools Ltd."	"	20	"	8 2 0 less 53½%	
†384	Files, Band, Saw, single cut, 6" taper, "B.S.A. Tools Ltd."	"	20	"	0 14 0 less 53½%	

WOODEN HANDLES. (Various)

8. The Mop Handle supplied under Item No. 400 shall have a hole $2\frac{1}{2}$ " x $\frac{1}{4}$ " bored at the end for the spike of the Mop.

9. As regards Item No. 405, the handle supplied shall have a Metal D. provided with a $\frac{1}{4}$ " Rivet through the wooden part and rivet fixed securely to the Metal D.

10. The Handles to be supplied under Items Nos. 390 to 399 shall conform to the following dimensions :—

Item No.	Length.	EYE MEASUREMENTS.			SHOULDER MEASUREMENTS.	
		Thickness.	Width.	Length.	Thickness.	Width.
390	14"	$\frac{3}{4}$ "	$1-\frac{1}{16}$ "	3"	$\frac{3}{8}$ "	$1-\frac{3}{16}$ "
391	16"	$\frac{1}{16}$ "	$1-\frac{1}{16}$ "	3"	$\frac{3}{4}$ "	$1-\frac{1}{16}$ "
392	(small eye) 16"	$\frac{13}{16}$ "	$1-\frac{1}{8}$ "	$3\frac{1}{4}$ "	$\frac{7}{8}$ "	$1-\frac{3}{16}$ "
393	(large eye) 18"	$\frac{3}{4}$ "	$1-\frac{1}{16}$ "	$3\frac{1}{4}$ "	$\frac{13}{16}$ "	$1-\frac{3}{16}$ "
394	20"	$\frac{7}{8}$ "	$1-\frac{1}{16}$ "	$3\frac{1}{4}$ "	$\frac{13}{16}$ "	$1-\frac{3}{16}$ "
395	(small eye) 20"	$1-\frac{1}{16}$ "	$1-\frac{3}{8}$ "	$3\frac{1}{2}$ "	$1-\frac{1}{8}$ "	$1-\frac{7}{16}$ "
396	(large eye) 24"	$1-\frac{1}{16}$ "	$1-\frac{3}{8}$ "	4"	$1-\frac{1}{8}$ "	$1-\frac{7}{16}$ "
397	30"	$1-\frac{1}{8}$ "	$1-\frac{5}{16}$ "	5"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "
398	36"	$1-\frac{1}{8}$ "	$1\frac{1}{4}$ "	5"	$1\frac{1}{4}$ "	$1-\frac{5}{8}$ "
399	(small eye) 36"	$1-\frac{1}{8}$ "	$1-\frac{7}{8}$ "	5"	$1\frac{1}{4}$ "	2"
	(large eye)					

The measurements shown above must not be exceeded by more than $\frac{1}{8}$ " as regards widths and by more than $\frac{1}{16}$ " as regards thicknesses.

As regards item 406, the rate includes Telegraphic Transfer Exchange between Australia and London at 25½ per cent., and if this rate of Exchange be varied during the contract period the difference calculated on 45 per cent. of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank. No adjustment for conversion will be made.

Conditions applicable to items 401-403

(a) Delivery shall be given in ship's slings Melbourne and wharfage, stevedoring and cartage will be arranged by the Corporation. Bills of Lading shall be made out in favour of The Victorian Railways Commissioners and forwarded to the Comptroller of Stores in sufficient time to avoid storage charges on wharf.

(b) The minimum quantity to be ordered and shipped is four bags and inspection will be made at the Spotswood General Storehouse where handles will be liable to rejection if not to specification and sample.

(c) Due allowance will be made for delays in delivery occasioned by fire, lockouts or in strikes shipping or in the industry and the rates shall be subject to variation in the event of alteration in the working week of 48 hours or basic wage of £3 7s. beyond 2/6d. per week, affecting the timber workers in N.S.W. and it shall be the Contractor's obligation to advise the Comptroller of Stores of any alteration in such conditions affecting the contract rate. Any amendment of rate shall apply to all orders undelivered in Melbourne at the time of such alteration.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	HANDLES—				£ s. d.	
†385	Adze, spotted gum—"L. Porta & Son"	Vict.	80 doz.	doz.	0 12 8½	Hardware Co. of Aust. Pty. Ltd.
†386	Axe, 32", spotted gum—"Klean Kut No. 1"	Q'land.	300 "	"	0 9 11	Mining Supplies Co.
†387	Broom, Short, 3' 6" x $1\frac{1}{16}$ " dia.	Vict.	80 "	"	0 2 0	Chief Mechanical Engineer.
†388	Broom, Long, 6' x $1\frac{1}{16}$ " dia.	"	100 "	"	0 3 6	
†389	Claw Hammer, spotted gum—"Klean Kut No. 1"	Q'land.	18 "	"	0 2 9	Mining Supplies Co.

WOODEN HANDLES—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
†390	Handles, Hammer, first quality spotted gum —“Klean Kut No. 1”— 14"	Q'land.	50 doz.	doz.	0 2 7	Mining Supplies Co.
†391	16" (small eye)	"	175 "	"	0 2 11	
†392	16" (large eye)	"	240 "	"	0 2 11	
†393	18"	"	150 "	"	0 3 8	
†394	20" (small eye)	"	80 "	"	0 4 2	
†395	20" (large eye)	"	70 "	"	0 4 2	
†396	24"	"	80 "	"	0 4 8	
†397	30"	"	200 "	"	0 6 2	
†398	36" (small eye)	"	1000 "	"	0 7 9	
†399	36" (large eye)	"	450 "	"	0 7 9	
*400	Handles, Mop—Ferruled, 4'6" x 1½" ...	Vict.	30 "	"	0 4 9	Chief Mechanical Engineer
†401	Handles, Pick—Spotted gum, “Bonzer” XXX— D.E., Navy	N.S.W.	1750 "	"	In ship's slings Melbourne 0 10 0	Hely Bros. Ltd.
†402	Miners', “Ballarat”	"	90 "	"	0 11 0	
†403	“Coal Miners',” 85A	"	120 "	"	0 5 6	
†404	Handles, Shovel, long handled, bent, mountain ash, “L. Porta & Son”	Vict.	80 "	"	0 12 1	Hardware Co. of Australia
†405	Handles, Shovel, S.H. bent, D. top, woolly-butt, “Titan”	"	200 "	"	0 14 6	
†406	Handles, Scythe, hickory, Tyzack's “Horseman”	Canada	2 "	"	4 1 0	McPherson's Pty., Ltd.
†407	Handles, Hatchet, for No. 2 Brades' Hunters' Hatchets, spotted gum, “Klean Kut No. 1”	Q'land	2 "	"	0 4 8	Mining Supplies Co.
408-410	Nil.					

AUGERS.

7. As regards Items Nos. 415 and 416, the Corporation undertakes to order the quantity shown opposite to these items in the Schedule during the contract period.

The rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 60½% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T. T. Exchange is effective as notified by the Commonwealth Bank.

†	411	Augers, Screw, "Ridgways"— ¾" diameter	U.K.	8 doz.	doz.	0 16 3	Briscoe & Co. Ltd.
	412	½" "	"	60 "	"	0 16 3	
	413	⅝" "	"	200 "	"	0 18 2	
	414	1" "	"	30 "	"	1 7 6	
		Augers, Screw, for railway hardwood sleepers, 8 threads per inch on lead screw, and cutting edges sharpened—"Ridgways"					
†	415	⅞" diameter "	"	160 "	"	1 2 2	
	416	1½" "	"	160 "	"	1 2 2	
	417-418	Nil					

AXES, HATCHETS, ETC.

As regards Item 420, the rate includes Telegraphic Transfer between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on at 60% per cent. of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
†419	Axes, handled, 5 lb. Brades' "Giraffe" ...	U.K.	750	each	£ s. d. 0 8 0	Briscoe & Co. Ltd.
†420	Hatchets, Axe Pattern, handled, Brades' 378 No. 2	"	700	"	0 2 11½	Edward Duckett & Sons.
†421	Hooks, Fern, "Gippslander No. 142" "Trojan"	Vict.	175	"	0 5 0	} Scott & Son. Pty. Ltd.
†422	Slashers, Straight-handled, "No. 213A" "Trojan"	"	20	"	0 8 9	
423	Nil					

SHOVELS.

As regards items 426 and 429, the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 50% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T. T. Exchange is effective as notified by the Commonwealth Bank.

Shovels, Steel—						
†424	Long handled, round mouth, No. 3 "Titan"	Vict.	350	each	0 3 10	} Galvanised Products Pty. Ltd.
†425	Long handled, square mouth, No. 3 "Titan"	"	200	"	0 3 10	
†426	Long handled, round mouth, rivetted back, No. 3 "Brades" Bright Blade	U.K.	50	"	0 6 4	Edward Duckett & Sons
†427	Short handled, square mouth, No. 8. ...	...	50	...	...	} Nil
†428	Short handled, square mouth, No. 6. ...	...	20	...	...
†429	Moulders' smooth back, No. 2 "Brades"	U.K.	40	"	0 6 10½	McPherson's Pty. Ltd.
†430	Navy, round mouth, No. 4. D. handle "Titan"	Vict.	1000	"	0 3 10	} Galvanised Products Pty. Ltd.
†431	Square mouth, No. 3 D. handle "Titan"	"	1500	"	0 3 10	
†432	Fuelmen's, No. 6, Coal Scoops "Star" W. Savage & Co. Ltd.	N.S.W. (partly)	400	"	0 6 11	} T. S. Nettlefold & Sons.
†433	Coal, square-mouthed, D handled, No. 6 "Star" W. Savage & Co. Ltd.	"	80	"	0 4 1½	
†434	Coal, square-mouthed, D handled, No. 7 "Star" W. Savage & Co. Ltd.	"	250	"	0 4 1	
†435	Firemen's, "Star" W. Savage & Co. Ltd.	"	800	"	0 5 2½	} Galvanised Products Pty. Ltd.
*436	Steel D's (without stales) for shovel handles "Titan"	Vict.	500	"	0 0 8½	
†437-438	Nil					

SAWS AND HACK SAW BLADES

7. SPECIFICATION FOR ITEM No. 450.

The Band Saws shall be high grade and capable of cutting not less than 30 No. sections of 110 lb. Australian Standard O. 75 Carbon Steel Railway Rails.

Tests.—The Band Saws shall be subjected by the Receiving Officer to test at the Permanent Way Material Depot, Spotswood, on a Horizontal Band Sawing Machine with 23 in. dia. Wheels, giving a saw speed of 120 feet per minute.

For the purpose of this test, one length, 12 ft. 6 in., of Band Saw shall be cut from the coil of Band Saw and prepared for test by and at the cost of the Corporation.

When these tests are to be carried out the Contractor will be given 24 hours' notice of the intention, but should the Contractor or representative fail to be present, the test may be carried out in his or his representative's absence.

SAWS AND HACK SAW BLADES—continued.

Rejection.—In the event of the Band Saw failing to comply with the above tests conducted by the Receiving Officer, it will be liable to rejection.

8. As regards items 439-445 and 450 the rates include Telegraphic Transfer Exchange between Australia and London at 25 $\frac{1}{4}$ %, and if this rate of Exchange be varied during the contract period, the difference calculated on 66 $\frac{2}{3}$ % of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T. T. Exchange is effective as notified by the Commonwealth Bank.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Blades, Hack Saw—Hack Saws Ltd. "Aven"				£ s. d.	
†439	9" x $\frac{1}{2}$ " x 23 G., 18 points per inch ...	U.K.	400 doz.	dozen	0 1 4 $\frac{1}{2}$	S. Robertson Pty. Ltd.
†440	10" x $\frac{1}{2}$ " x 23 G., 18 points per inch ...	"	2500 "	"	0 1 6 $\frac{1}{2}$	
†441	10" x $\frac{1}{2}$ " x 23 G., 22 points per inch ...	"	40 "	"	0 1 6 $\frac{1}{2}$	
†442	12" x $\frac{1}{2}$ " x 23 G., 18 points per inch ...	"	80 "	"	0 1 10	
	Blades, Hack Saw, High Speed—					
†443	16" x 1 $\frac{1}{2}$ " x 16 G., Jas. Neill & Co., "Eclipse"	"	25 "	"	0 10 0	McPherson's Pty. Ltd.
†444	Blades, Hack Saw, High Speed, for railway rails, 12" x about $\frac{9}{16}$ " x about 23 gauge, 14 points per inch (used with Hack Saw Frames), Jas. Neill & Co., "Eclipse"	"	2200 "	"	less 52 $\frac{1}{4}$ % 0 4 8 $\frac{1}{2}$ less 52 $\frac{1}{4}$ %	
†445	Blades, Hack Saw, High Tungsten, for Railway Rails, 17" x 1" x 18 gauge, 10 points per inch, 18 % Tungsten, Jonas & Colver, "Novo"	"	200 "	"	1 17 0	
	Saws, Band, narrow, in coils up to 108', and any gauge, as ordered—					
446	$\frac{3}{8}$ " ...	Vict. (Partly)	1000 feet	foot	†0 0 4	F. Leech and Co.
447	$\frac{1}{2}$ " ...	"	450 "	"	†0 0 5	
448	$\frac{3}{4}$ " ...	"	50 "	"	†0 0 6 $\frac{1}{2}$	
449	1" ...	"	150 "	"	†0 0 8 $\frac{1}{2}$	
450	Saws, Band, flexible back, 1" width, 20 gauge, 12 teeth per inch ...	U.K. N.S.W.	750 "	"	0 0 10 $\frac{1}{4}$	The Eagle and Globe Steel Co. Ltd.
451	Saws, Circular, any gauge ordered, 30" dia., "Premier Saw Coy."	(Partly)	12 No.	each	2 17 0	
452	Saws, Circular, crosscut, 11 gauge, 22" dia., "Premier Saw Coy."	"	10 "	"	1 14 0	
453-456	Nil.					

† Less 5% discount.

WIRE (IRON AND STEEL)

See Appendix "B" for Specification

As regards Item No. 470, the rate includes wharfage, and in the event of the material requiring to be imported into the State of Victoria after the order has been placed, each Bill of Lading should be made out in favor of the Comptroller of Stores of the Victorian Railways. Wharfage will be arranged by the Corporation and the Delivery Order returned to the Contractor in order that delivery may be completed. The amount involved for wharfage will be deducted from the Contractor's invoice.

† As regards item 473, the following discounts will be allowed—

3%	for payment within 10 days
2 $\frac{1}{2}$ %	" " " 30 "
1 $\frac{1}{2}$ %	" " " 60 "
Nett	" " after 60 "

As regards Item 473, should there be any rise or fall in "Rylands" current price for wire, the Contract rate shall be increased or decreased, as the case may be, to the satisfaction of the Comptroller of Stores, and such amendments shall apply to all outstanding orders at date of variation.

WIRE (IRON AND STEEL)—continued.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate, £ s. d.	Name of Contractor
	WIRE.					
457	Wire, Iron, Charcoal, "Ryland's," "Lysaght's" or "Cooke's"— 6 S.W. gauge	Vict. & N.S.W.	15 cwt.	cwt.	0 17 3	Edward Duckett & Sons
458	8 " "	"	3 " "	" "	0 17 9	
459	10 " "	"	2 " "	" "	0 18 9	
460	12 " "	"	2 " "	" "	1 0 3	
461	14 " "	"	1 " "	" "	0 19 11	
462	16 " "	"	15 " "	" "	1 0 3	Nil
463	Wire, Iron, Charcoal, Galv. 8 S.W.G., for Signal Bonds	"	60 " "	" "	" "	
	Wire, Iron, Galvanized, "Ryland's," "Lysaght's" or "Cooke's"—					
464	6 S.W. gauge	Vict. & N.S.W.	6 " "	" "	0 17 3	Edward Duckett & Sons
465	8 " "	"	8 " "	" "	0 17 3	
466	10 " "	"	35 " "	" "	0 17 8	
467	12 " "	"	15 " "	" "	0 19 11	
468	16 " "	"	40 " "	" "	1 4 11	
469	Wire, Iron, Tinman's, 6 to 14 s.w. gauge, as ordered	N.S.W.	5 " "	" "	0 19 6	Melbourne Wire Works
†470	Wire, Mild Steel, Hard, Black, 6 B.W. gauge (203"), for spark arresters, to Specification, "Ryland's" or "Lysaght's"	"	30 tons	ton	15 0 0	Edward Duckett & Sons
471	Wire, Steel, Galvanized, Stranded, 7/144, to specification, delivered at Batman Avenue	"	5 miles	" "	" "	Nil
472	Wire, Galvanized, Plain Fencing, No. 8 gauge, to specification	"	75 tons	" "	" "	Nil
473	Wire, Galvanized, Barbed, Fencing, to specification, 12 gauge "Titan"	Vict. (partly)	20 " "	" "	†22 10 0	The Titan Nail & Wire Pty. Ltd.
†474	Seals, Lead, Truck	Vict.	300,000	1000	0 10 0	Victorian Die-moulders & Casters Co. Pty. Ltd.
†475	Seals, Lead, Small, for sealing signal relays, Watt-hour meters, etc.	"	600	100	0 0 3	
476-480	Nil					

† Less 3 % discount—10 days, 2½ % discount—30 days.

BRICKS, BUILDING.

7. The Bricks shall be carefully loaded into trucks at the railway station named and consigned as ordered, and such loading shall be performed by and at the expense of the Contractor, and to the satisfaction of the Comptroller of Stores.

The Bricks shall be well burnt, sound, hard, truly shaped, and of uniform size and colour.

†481	BENDIGO AND DISTRICT. Bricks, Building, delivered into trucks at Bendigo Railway Station	Vict.	30,000	1,000	3 3 0	Bendigo Brick Co.
†482	BALLARAT DISTRICT. Bricks, Building, delivered into trucks at Selkirk's Siding, Ballarat	"	20,000	" "	2 15 0	James Selkirk Pty., Ltd.
†483	MARYBOROUGH DISTRICT. Bricks, Building, delivered into trucks at Selkirk's Siding, Ballarat	"	3000	" "	2 15 0	
484-486	Nil.					

EXPLOSIVES AND AMMUNITION:

(Period—1/10/34 to 30/9/35)

The rates for Items 487, 493 and 494 include Telegraphic Transfer Exchange between Australia and London at 25½ per cent., and if this rate of Exchange be varied during the Contract period, the difference calculated on 60 per cent. of the Contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

Item No. 488, the rate is for case lots of 300 coils, if ordered in less than case lots the price will be 8½d. per coil.

The rates for Items Nos. 487, 490, 491, 493 and 494 will be increased as follows in the event of delivery being required in Melbourne or the suburbs—

			s.	d.
Item No. 487—Lots under 500	...	...	2	6 per lot
Lots of 500 and over	...	...	3	6 "
Items Nos. 490 and 491	...	...	2	6 per case
Item No. 493	...	...	1	1 per 25-lb. case
Item No. 494	...	...	2	1 per 50-lb. case

Suburban deliveries can only be made to different districts on certain days, and orders must reach the Contractor at least two days before delivery date.

Country deliveries are made in cylinders per goods train, and a charge of 1s. for the use of each cylinder used will be made.

The Corporation will receive the benefit of any fall in the selling price of Explosives during the Contract period.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	EXPLOSIVES.				£ s. d.	
487	Caps. No. 6, in boxes of 100, delivered f.o.r. Laverton "Nobel's"	U.K.	100 boxes	box	0 6 0	Dalgaty & Co. Ltd.
488	Fuse, Single Thread, in Coils of 8 yards "Nobel's"	Vict.	3500 coils	coil	0 0 7½	
489	Fuse, Single Thread, in cases containing 4 reels of 600 yards each, "Nobels" Bickfords Bendigo Blue	"	120 cases	case of 2400 yards	9 7 6	
489A	Sump Red	"	60 "	"	9 7 6	
489B	" White	"	30 "	"	9 7 6	McMicking & Co.
489C	" Blue	"	30 "	"	9 7 6	
490	" Gelignite", 50 per cent., delivered f.o.r. Laverton "Nobel's"	"	200 cases	case of 50 lb. net	2 14 0	
491	" Gelignite", 50 per cent., delivered f.o.r. Laverton (State Coal Mine) "Nobel's"	"	3000 "	"	2 14 0	
492	" Samsonite" No. 3, delivered f.o.r. Laverton (State Coal Mine) "Nobel's"	"	250 "	"	2 12 0	Nil
493	Powder, Nitrate of Potash, Blasting, in 25 lb. cases, delivered f.o.r. Laverton "Curtiss & Harvey"	U.K.	5 tons	case	1 6 3	
494	Powder, Nitrate of Potash, Blasting, in 50 lb. cases, delivered, f.o.r. Laverton "Curtiss & Harvey"	"		"	2 11 6	
495	Powder, Blasting, Black, in 25 lb. or 50 lb. cases, as ordered, delivered f.o.r. Laverton	.....	1000 lb.		
496	AMMUNITION. Cartridges, Smokeless, .32 calibre, in boxes of 25 or 50—Auto. Pistol	...	5000 No.			
497-498	Nil					

PHOTOGRAPHIC MATERIALS.

7. As regards Items 501, 502, 504-506, 508-510, 513, 514, 516-519, 521-525, 527, 529-533 547, 581, 582, and 589-593, the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 50% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T. T. Exchange is effective as notified by the Commonwealth Bank.

The rates for Items Nos. 502, 513, 514, 516, 517, 519 and 533 are firm for Conversion.

As regards Items Nos. 500 and 548, 2/6 each will be charged by Contractor for Winchester and credited to Corporation on return of Containers in good order and condition.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
499	Albums, 12 leaf, loose leaf, 9½" x 6½" ...	Vict. (partly)	40	each	£ s. d. 0 2 3	Kodak (A'sia) Pty. Ltd.
500	Chemicals, Pure— Acid, Acetic (Glacial) in 80 oz. Winchester	Vict.	140 lb.	lb.	0 3 2	
501	„ Citric ...	U.K.	3 „	„	0 1 6	Felton, Grimwade & Duerdins Ltd.
502	„ Pyrogalllic, in paper packets ...	U.S.A.	25 „	„	0 8 6	Kodak (A'sia) Pty. Ltd.
503	Alcohol, Absolute ...	Vict.	12 „	16 fluid ozs.	0 7 9	Felton, Grimwade & Duerdins Ltd.
504	Amidol ...	U.K.	3 „	lb.	0 12 0	H. B. Selby & Co. Pty. Ltd.
505	Ammonium Chloride ...	„	3 „	„	0 0 9	Felton, Grimwade & Duerdins Ltd.
506	„ Iodide ...	„	1 „	„	1 13 0	
507	Amylum, Pulverised, in paper packets ...	Vict.	25 „	„	0 0 4	Kodak (A'sia) Pty. Ltd.
508	Cadmium, Bromide ...	U.K.	3 „	„	0 8 9	Felton, Grimwade & Duerdins Ltd.
509	„ Iodide ...	„	3 „	„	1 15 0	H. B. Selby & Co. Pty. Ltd.
510	Chrome, Alum ...	„	60 „	„	0 0 6	Felton, Grimwade & Duerdins Ltd.
511	Collodion, 2 per cent., enamel, in tins of 28 lbs.		84 „	„	...	Nil
512	Copper, Sulphate of ...	N.S.W.	450 „	„	0 0 3½	Felton, Grimwade & Duerdins Ltd.
513	Dextrine, White ...	Holland	200 „	„	0 0 5	
514	Dextrine, Brown ...	U.S.A.	40 „	„	0 0 5	Felton, Grimwade & Duerdins Ltd.
515	Ether, Sulphuric ...	N.S.W.	15 „	„	0 2 8	
516	Hydroquinone, in paper packets ...	France	20 „	„	0 7 9	Kodak (A'sia) Pty. Ltd.
517	Iodine (Resublimed) ...	Canada	3 „	„	0 12 6	Felton, Grimwade & Duerdins Ltd.
518	Mercury, Bichloride ...	U.K.	12 „	„	0 6 9	
519	Metol, in paper packets ...	France	10 „	„	0 10 6	Kodak (A'sia) Pty. Ltd.
520	Opaque "Eastman's," No. 1 size ...	Vict.	40 tubes	tube	0 1 2	
521	Potassium, Bichromate ...	U.K.	260 lb.	lb.	0 0 10½	Felton, Grimwade & Duerdins Ltd.
522	„ Bromide ...	„	18 „	„	0 1 7	
523	„ Ferricyanide, in paper packets ...	„	50 „	„	0 2 8	Felton, Grimwade & Duerdins Ltd.
524	„ Metabisulphite, in paper packets ...	„	18 „	„	0 0 11½	
525	Powder, Flash, Magnesium Powder ...	„	3 „	„	0 18 0	Kodak (A'sia) Pty. Ltd.
526	Soda, Hyposulphite ...	Vict.	15 cwt.	cwt.	1 5 0	Felton, Grimwade & Duerdins Ltd.
527	„ Sulphide ...	U.K.	3 lb.	lb.	0 1 0	H. B. Selby & Co. Ltd.

PHOTOGRAPHIC MATERIALS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Chemicals, Pure—continued.				£ s. d.	
528	Soda, Sulphite (Anhydrous) ...	Vict.	220 lb.	lb.	0 0 4½	Felton, Grimwade & Duerdins Ltd. Kodak (A'sia) Pty. Ltd.
529	„ Carbonate (Anhydrous), in paper packets	U.K.	175 „	„	0 0 2½	
530	Oil of Cloves ...	„	1 „	„	0 8 6	
	Film—					
531	Cine, in 100 ft. rolls, "Kodak," Panchro.	„	10 rolls	roll	1 2 10	Kodak (A'sia) Pty. Ltd.
532	Cine, Panchromatic, in 100 ft. rolls, "Kodak" Super Sens	„	15 „	„	1 6 0	
533	Cine, Kodacolor, in 50 ft. rolls, "Kodak,"	U.S.A.	3 „	„	1 2 0	
534	Cut Super Speed, 4½" x 3½", "Kodak"	Vict. (Partly)	1 gross	gross	1 7 0	
535	„ „ „ 5" x 4" ...	„	1 „	„	2 2 9	
536	„ „ „ 6½" x 4½" ...	„	1 „	„	2 16 3	
537	„ „ „ 9 c.m. x 12 c.m. ...	„	1 „	„	1 18 3	
538	Panchromatic, "Kodak Super Speed," 4½" x 3½" ...	„	1 „	„	1 11 6	Kodak (A'sia) Pty. Ltd.
539	6½" x 4½" ...	„	1 „	„	3 3 0	
540	9 c.m. x 12 c.m. ...	„	1 „	„	2 0 6	
	Spools, Photographic Roll—"Kodak"					
541	2½" x 3½", No. 120, 8 exposures ...	„	650 rolls	roll	0 0 11½	Kodak (A'sia) Pty. Ltd.
542	2½" x 4½", No. 116, 8 exposures ...	„	600 „	„	0 1 1½	
543	3½" x 4½", Verichrome, 6 exposures	„	40 „	„	0 1 9½	
544	3½" x 5½", No. 122, 6 exposures ...	„	200 „	„	0 1 8½	
545	5" x 4", Verichrome, 6 exposures...	„	40 „	„	0 2 1½	
546	Gelatine, Sheet ...	„	60 lb.	„	„	Nil.
547	Globes, Flash Light "Sashalite" ...	U.K.	100	each	0 2 0	Kodak (A'sia) Pty. Ltd.
548	Glazing Solution, concentrated 1 to 80, in winchesters, "Kodak"	Vict. (Partly)	12 quarts	80 ozs.	1 3 7	
† 549	Glue, Liquid, in 1 gal. tins, "Davis" ...	N.S.W.	2 gals.	gal.	0 10 0	Davis Gelatine Pty. Ltd.
† 550	„ Liquid, in 1 lb. tins, "Davis" ...	„	140 tins	doz. } tins }	{ 1 4 0 } { less 20% }	
† 551	„ Crystal, or any suitable alternative	„	25 cwt.	„	„	Nil
	Measures, Glass—					
552	2 oz. ...	N.S.W.	2	each	0 0 11½	Kodak (A'sia) Pty. Ltd.
553	8 oz. ...	„	18	„	0 1 6	
554	16 oz. ...	„	18	„	0 2 7½	
555	Mounting Tissue, Dry—24" x 20" ...	Vict. (Partly)	3 reams	ream	4 5 0	Kodak (A'sia) Pty. Ltd.
† 556	Mounts, 10 sheet, 31" x 25" Board, Rough edge, Grade BX, Brown, Grey, White or Cream, as ordered	„	1000	100	4 5 0	
† 557	Mounts, 4 sheet, 30" x 24", cream, white, or brown, as ordered	„	175	100	2 15 0	

PHOTOGRAPHIC MATERIALS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Paper, Bromide, Single Weight, any surface ordered—"Kodak"				£ s. d.	
558	25' long x 25" wide	Vict. (partly)	5 rolls	roll	0 19 3	
559	25' long x 30" wide	"	2 "	"	0 2 9	
560	5½" x 3½"	"	900 sheets	1000	2 5 6	
561	6½" x 4½"	"	16,000 "	"	3 13 6	
562	8½" x 6½"	"	12,000 "	"	6 13 0	
563	10" x 8"	"	9000 "	"	9 11 0	
564	12½" x 10½"	"	5 gross	gross	2 6 0	
565	15½" x 12½"	"	6 "	"	3 7 11	
566	18" x 16"	"	3 "	"	5 12 0	
567	20" x 16"	"	1 "	"	5 12 0	
568	25" x 14½"	"	1 "	"	6 13 0	
569	28" x 16"	"	1 "	"	8 12 0	
	Paper Bromide, Double Weight, any surface ordered—"Kodak"					
570	25' long x 25" wide	"	5 rolls	roll	1 2 3	
571	25' long x 30" wide	"	8 "	"	1 6 3	
572	6½" x 4½"	"	1 gross	gross	0 12 6	
573	8½" x 6½"	"	3 "	"	1 2 5	Kodak (Asia) Pty. Ltd.
574	10" x 8"	"	3 "	"	1 12 3	
575	12½" x 10½"	"	3 "	"	2 12 10	
576	15½" x 12½"	"	3 "	"	3 17 9	
577	18" x 16"	"	3 "	"	6 8 10	
578	20" x 16"	"	3 "	"	6 8 10	
579	25" x 14½"	"	6 "	"	7 13 0	
580	28" x 16"	"	3 "	"	9 17 9	
	Paper Bromide, Double Weight—					
581	Wellington Cream, Crayon, 12½" x 10½"	U.K.	1 "	"	3 15 0	
582	" " " 15½" x 12½"	"	1 "	"	5 8 9	
583	Portrait, 8½" x 6½", double weight "Kodak"	Vict. (partly)	1 "	"	1 6 11	
584	" 10" x 8"	"	3 "	"	1 19 2	
585	" 12½" x 10½"	"	3 "	"	3 5 1	
586	" 15½" x 12½"	"	3 "	"	4 18 9	
587	" 23" x 17"	"	1 "	"	10 0 2	
588	Paper Bromide, Post Cards, "Kodak"	"	18 "	"	0 9 10	

PHOTOGRAPHIC MATERIALS—continued:

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
	Plates, orthochromatic backed "Imperial Eclipse"—					
589	4½" x 3½"	U.K.	1 gross	gross	2 0 10	
590	5" x 4"	"	1 "	"	3 4 10	
591	6½" x 4½"	"	10 "	"	4 1 7	
592	8½" x 6½"	"	1 "	"	7 8 10	
593	12 c.m. x 9 c.m.	"	1 "	"	2 10 5	
594	Plates, Lantern, "Austral," "Kodak" 3½" x 3½"	Vict. (partly)	1 "	"	1 2 6	
	Plates, Photographic, dry, orthochromatic backed, "Austral,"—					
595	½"	"	20 doz.	doz.	0 4 10	
596	½"	"	35 "	"	0 8 7	
	Plates, Process, "Austral,"—					
597	6½" x 4½"	"	20 "	"	0 5 3	
598	8½" x 6½"	"	40 "	"	0 10 2	
599	12" x 10"	"	3 "	"	1 4 4	
600	15" x 12"	"	8 "	"	2 3 1	
	Plates, Process, Panchromatic, "Austral," "Kodak"—					Kodak (A'sia) Pty. Ltd.
601	8½" x 6½"	"	8 "	"	0 10 2	
602	12" x 10"	"	8 "	"	1 4 4	
603	15" x 12"	"	8 "	"	2 3 1	
	Plates, Panchromatic, Super Speed backed, "Kodak"—					
604	6½" x 4½"	"	75 "	"	0 6 0	
605	8½" x 6½"	"	10 "	"	0 10 11	
606	9 cm. x 12 cm.	"	20 "	"	0 3 9	
607	5" x 4"	"	20 "	"	0 4 2	
	Plates, Hyper-Speed, backed—"Kodak"					
608	4½" x 3½"	"	10 "	"	0 2 11	
609	9 cm. x 12 cm.	"	20 "	"	0 3 9	
610	5" x 4"	"	20 "	"	0 4 2	
611	6½" x 4½"	"	30 "	"	0 6 0	
612-616	Nil					

TUBES AND FITTINGS.

7. The estimated requirements are based on the full list price.

8. The Contractor will require to have all Galvanized Tubes supplied under Items marked (M) tested by the Melbourne and Metropolitan Board of Works, and such Tubes shall bear that Board's test marks before delivery.

9. All Tubes and Fittings shall be of standard weight and all threads shall be cleanly cut and in accordance with the British Standard Specification of Pipe Threads for W.I. Pipes. (No. 21-1909).

10. Galvanizing shall be uniform inside and outside and shall be free from bubbles, scabs, etc. Sherardized Tubes or Fittings will not be accepted.

As regards Item 621B, orders are to be placed with McPherson Pty. Ltd. under Item 621bb until Stewarts & Lloyds are able to supply satisfactory tubes of Australian manufacture. Orders should then be placed with Stewarts & Lloyds.

As regards the contract with Stewarts & Lloyds, it is expected that Australian Tubes, etc., will be delivered under Items 617B, 619B, 621B, 623B and 625B, about January 1st, 1935.

As regards the contract with McPherson Pty. Ltd., the rates for Tubes, black, galvanised and steam and Bends, Long Screws and Springs, are firm until 31/3/35 and shall thereafter be subject to amendment should there be any variation in the present prices of gas supplied by the Australian Gas Light Co.; Arbitration Awards affecting Tulloch's employes; shipping freight from Sydney to Melbourne; and steel supplied by Australian Iron and Steel Ltd. It shall be the Contractor's obligation within the meaning of Clause 21, to advise the Comptroller of Stores, from time to time, of any variation. The Corporation reserves the right to cancel any item for which an increased rate is asked.

The rates for Fittings are firm.

*The discount of 40% for Item 623D is off the list price for 2" Steam Tubing.

Name of Manufacturers—

Items Nos. 617, 619, 621, 623, 623D—Stewarts & Lloyds, Glasgow.

Items Nos. 617B, 619B, 621B, 623B, 625B—Stewarts & Lloyds, Glasgow, or Stewarts & Lloyds, N.S.W., at Contractor's option.

Items Nos. 617A, 617C, 618, 618A, 619A, 619C, 620, 620A, 621A, 621BB, 621C, 621D, 622, 622A, 623A, 623C to 625A, 625C to 626A, 627, 629, 631, 633, 635, 637—Tullochs Phoenix Ironworks Ltd., N.S.W.

Items Nos. 628, 630, 632, 634, 636, 638—Henderson's Federal Spring Works, Victoria.

Items Nos. 639 to 644—E.W. Fittings Ltd., N.S.W.

Item No.	Description	Country of Manufro	Estimated Requirements	Rate per	Rate	Name of Contractor
					Percentage off the "Price Lists" submitted, with the tender and which shall be firm during the period of the Contract.	
617.	Tubes, Wrought Iron, of approved thickness, in trade lengths, as ordered—Black, $\frac{1}{8}$ " and $\frac{1}{4}$ " Butt welded ...	U.K.	£		less 50%	Stewarts & Lloyds (Australia) Ltd.
617A	Black, $\frac{3}{8}$ " ...	N.S.W.			57%	McPherson's Pty. Ltd.
617B	Black, $\frac{1}{2}$ " to 2" Butt welded ...	U.K. or N.S.W.	180		65 $\frac{1}{4}$ %	Stewarts & Lloyds (Australia) Ltd.
617C	Black, 2 $\frac{1}{2}$ " and 3" ...	N.S.W.			57%	
618	Black, 3 $\frac{1}{2}$ " and 4" ...	"	5		57%	McPherson's Pty. Ltd.
618A	Black, 5" and 6" ...	"			57%	
619	Galv., $\frac{1}{8}$ " and $\frac{1}{4}$ " Butt welded ...	U.K.			40%	Stewarts & Lloyds (Australia) Ltd.
619A	Galv., $\frac{3}{8}$ " ...	N.S.W.			46 $\frac{1}{2}$ %	McPherson's Pty. Ltd.
619B	Galv., $\frac{1}{2}$ " to 2" Butt welded ...	U.K. or N.S.W.	1100		56 $\frac{1}{4}$ %	Stewarts & Lloyds (Australia) Ltd.
619C	Galv., 2 $\frac{1}{2}$ " and 3" ...	N.S.W.			46 $\frac{1}{4}$ %	
620	Galv., 3 $\frac{1}{2}$ " and 4" ...	"			46 $\frac{1}{4}$ %	McPherson's Pty. Ltd.
620A	Galv., 5" and 6" ...	"	400		46 $\frac{1}{4}$ %	
621	(M) Galv., $\frac{1}{8}$ " and $\frac{1}{4}$ " Butt welded ...	U.K.			35%	Stewarts & Lloyds (Australia) Ltd.
621A	(M) Galv., $\frac{3}{8}$ " ...	N.S.W.			45%	McPherson's Pty. Ltd.
621B	(M) Galv., $\frac{1}{2}$ " to 2" Butt welded ...	U.K. or N.S.W.	1750		51 $\frac{1}{4}$ %	Stewarts & Lloyds (Australia) Ltd.
621BB	(M) Galv., $\frac{1}{2}$ " to 2" ...	N.S.W.			48 $\frac{1}{4}$ %	McPherson's Pty. Ltd.

TUBES AND FITTINGS.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					Percentage off the "Price Lists" submitted with the tender and which shall be firm during the period of the Contract.	
	Tubes, Wrought Iron, of approved thickness, in trade lengths, as ordered—				Less	
621c	(M) Galv., 2½" and 3"	N.S.W.	1750		45%	McPherson's Pty. Ltd.
622	(M) Galv., 3½" and 4"	"	400		42½%	
622A	(M) Galv., 5" and 6"	"			42½%	Stewarts & Lloyds (Australia) Ltd.
623	Steam, screwed and socketed, ½" and 1"	U.K.			37½%	
	Buttwelded.					
623A	Steam, screwed and socketed, ½"	N.S.W.	2400		46½%	McPherson's Pty. Ltd.
623B	Steam, screwed and socketed, ½" to 2"	U.K. or N.S.W.			56½%	Stewarts and Lloyds (Australia) Ltd.
623C	Steam, screwed and socketed, 2½" and 3"	N.S.W.			46½%	McPherson's Pty. Ltd.
623D	Steam, screwed and socketed, 1½"	U.K.	8000 ft.		*.40%	Stewarts & Lloyds (Australia) Ltd.
624	Steam, screwed and socketed, 3½" and 4"	N.S.W.			46½%	McPherson's Pty. Ltd.
624A	Steam, screwed and socketed, 5" and 6"	"	175		46½%	
	Bends, Long Screws and Springs, Wrought Iron, of approved thickness—					
625	Galv., ½" and 1"	"			22½%	McPherson's Pty. Ltd.
625A	Galv., ½"	"	120		37½%	
625B	Galv., ½" to 2"	U.K. or N.S.W.			50%	Stewarts & Lloyds (Australia) Ltd.
625C	Galv., 2½" and 3"	N.S.W.			37½%	McPherson's Pty. Ltd.
626	Galv., 3½" and 4"	"	40		22½%	
626A	Galv., 5" and 6"	"			22½%	
	Fittings, Wrought Iron, of approved thickness—					
627	Black, up to 2" diameter, excluding Flanges	"	80		33½%	Stewarts & Lloyds (Australia) Ltd.
628	" " " Flanges only	Vict.			20%	
629	Black, 2½" and up to 6" diameter, excluding Flanges	N.S.W.	15		30%	McPherson's Pty. Ltd.
630	Black, 2½" and up to 6" diameter, Flanges only	Vict.			45%	Stewarts & Lloyds (Australia) Ltd.
631	Galvanized, up to 2" diameter, excluding Flanges	N.S.W.	175		22½%	McPherson's Pty. Ltd.
632	Galvanized, up to 2" diameter, Flanges only	Vict.			10%	Stewarts & Lloyds (Australia) Ltd.
633	Galvanized, 2½" and up to 6" diameter, excluding Flanges	N.S.W.			22½%	McPherson's Pty. Ltd.
634	Galvanized, 2½" and up to 6" diameter, Flanges only	Vict.	80		40%	Stewarts & Lloyds (Australia) Ltd.
635	Steam, up to 2" diameter, excluding Flanges	N.S.W.	500		22½%	McPherson's Pty. Ltd.
636	" " " Flanges only	Vict.			10%	Stewarts & Lloyds (Australia) Ltd.
637	Steam, 2½" and up to 6" diameter, excluding Flanges	N.S.W.	5		22½%	McPherson's Pty. Ltd.
638	Steam, 2½" and up to 6" diameter, Flanges only	Vict.			40%	
	Fittings, Malleable Iron, of approved thickness—					
639	Black, up to 2" diameter	N.S.W.	50		60%	Stewarts & Lloyds (Australia) Ltd.
640	Black, 2½" and up to 6" diameter	"	2		60%	
641	Galvanized, up to 2" diameter	"	450		55%	
642	Galvanized, 2½" and up to 6" diameter	"	40		50%	
643	Steam, up to 2" diameter	"	2		60%	
644	Steam, 2½" and up to 6" diameter	"	2		60%	
645-648	Nil					

SCREWS AND SPLIT PINS.

7. The estimated requirements are based on the full list price.

8. SPECIFICATION FOR BLACK HEXAGON HEAD SET SCREWS—
Items 671-693.

Quality of Material.—The Black Hexagon Head Set Screws shall be manufactured from steel which is in accordance with Australian Standard Specification A1/1931 for "A" grade steel.

Particulars.—The widths across flats of heads of Set Screws up to and including $\frac{1}{4}$ " shall be to British Standard "Fine" dimensions and of Set Screws $\frac{3}{8}$ " diameter and over shall be to Whitworth Standard dimensions, provided that the width across the flats of the heads is one size lower. Set Screws with heads of a size midway between two distinct sizes will not be accepted.

The Set Screws shall be screwed to within a distance from the head not exceeding 3 times the pitch for nominal sizes of $\frac{1}{2}$ in. and under, and not exceeding twice the pitch for sizes above $\frac{1}{2}$ in.

The Screw threads shall be in accordance with the requirements of Table 2 for Bolts, British Standard Specification No. 92/1919.

9. SPECIFICATION FOR BRIGHT HEXAGON HEAD SET SCREWS—
Items 694-713.

Quality of Material.—The Bright Hexagon Set Screws shall be manufactured from Steel Bars, the quality of which is in accordance with Grade 2 of B.S.S. No. 32/1927 (chemical analysis excepted).

Particulars.—The Bright Hexagon Head Set Screws shall be in accordance with the requirements of British Standard Specification No. 190/1924.

Items 714-719—Price List of "Nettlefold's" Split Pins.

Per Gross.

LENGTH.	$\frac{1}{2}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"	$2\frac{1}{4}$ "	$2\frac{1}{2}$ "	$2\frac{3}{4}$ "	3"	$3\frac{1}{4}$ "	$3\frac{1}{2}$ "	4"	$4\frac{1}{2}$ "	5"	$5\frac{1}{2}$ "	6"
Diameter.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
$\frac{1}{32}$ "
$\frac{3}{32}$ "	1	1	...	...	1	1	2	1	4	...	...	...	...	...	...	...	...	...	...
$\frac{1}{8}$ "	1	1	1	1	1	1	1	2	1	4	...	...	...	...	...	...	...	...	...
$\frac{3}{16}$ "	1	1	1	1	1	1	1	2	1	4	...	...	...	...	...	...	...	...	...
$\frac{1}{4}$ "	1	1	1	1	1	1	1	2	1	4	...	...	...	...	...	...	...	...	...
$\frac{5}{16}$ "	1	2	1	2	1	3	1	5	1	7	1	9	...	...	...	...	...
$\frac{3}{8}$ "	1	2	1	2	1	3	1	5	1	7	1	9	1	11	2	1	...
$\frac{7}{16}$ "	1	7	1	9	1	11	...	...	...	...	...	...
$\frac{1}{2}$ "	1	4	...	1	4	1	4	1	5	1	7	1	9	1	11	2	1	2	3
$\frac{5}{8}$ "	1	6	1	6	1	8	1	10	2	2	4	2	6	...	3	0	...
$\frac{3}{4}$ "	2	0	2	2	3	2	6	2	3	3	6	...	4	0	...	...
$\frac{7}{8}$ "	2	4	2	7	2	11	3	3	6	...	4	0	...	...	...
1"	2	4	2	7	2	11	3	3	6	...	4	0	...	...	...
$1\frac{1}{4}$ "
$1\frac{1}{2}$ "
$1\frac{3}{4}$ "
2"
$2\frac{1}{4}$ "
$2\frac{1}{2}$ "
$2\frac{3}{4}$ "
3"
$3\frac{1}{4}$ "
$3\frac{1}{2}$ "
4"
$4\frac{1}{2}$ "
5"
$5\frac{1}{2}$ "
6"

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Screws, any sizes ordered, "Nettlefold's"				Percentage off the Price List submitted with the tender and which shall be firm during the period of Contract.	
	Wood, Brass, countersunk head—				List Price	
649	Up to and including 12 gauge	...	Vict.	550		
650	13 to 18 gauge	...	"	80		
	Wood, Brass, round head—					C. S. Green & Son
651	Up to and including 12 gauge	...	"	150		
652	13 to 18 gauge	...	"	5		
653	Wood, Brass, raised head	...	"	15	+ 7½%	Edward Duckett & Sons

SCREWS AND SPLIT PINS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
	Screws, any sizes ordered, "Nettlefold's"—continued.				Percentage off the Price List submitted with the tender and which shall be firm during the period of Contract.	
654	Wood, Iron, countersunk head ...	Vict.	£ 1600		— 27½%	C. S. Green & Son
655	Wood, Iron, round head, japanned ...	"	20		— 10%	
656	Stove, Brass, round, countersunk or cheese head as ordered, any trade size ordered up to 1/16"	"	175 gross		— 50%	
657	Stove, Iron, round or countersunk head, as ordered, any trade sizes ordered, up to 3/8"	"	1700 "		— 50%	Edward Duckett & Sons
658	Stove, Iron, round head, 1" x 1/2"	...	5 "	...	...
659	Stove, Iron, countersunk head, 1" x 1/2" "McPherson's"	Vict.	5 "	gross	0 12 6	Nil
660	" " " " 1 1/4" x 1/2"	"	5 "	"	0 13 0	
661	" " " " 1 1/2" x 1/2"	"	5 "	"	0 13 6	
	Screws, Coach, square head, Gimlet pointed "McPherson's"					
662	2" x 1/2"	...	1 cwt.	cwt.	2 14 0	McPherson's Pty. Ltd.
663	2 1/2" x 1/2"	...	1 "	"	2 11 0	
664	3" x 1/2"	...	1 "	"	2 9 0	
665	5" x 3/4"	...	10 "	"	1 13 0	
666	Any lengths ordered x 3/8"	...	8 "	"	3 6 0	
667	Sizes other than Items 662 to 666 inclusive, 1/2", 5/8" or 3/4" diameter, as ordered	"	12 "	"	2 9 0	
	Screws, Coach, Square head, Patent pointed "McPherson's"					
668	5" x 3/4" x 1 3/16" head	"	130 cwt.	cwt.	1 7 0	McPherson's Pty. Ltd.
669	Any lengths ordered by 3/8" diameter	"	1 "	"	3 0 0	
670	Sizes 1/2", 5/8", 3/4" and 7/8" diameter, other than Item 668, as ordered	"	100 "	"	2 2 0	
	Screws, Set, Black, Hex. Head—"McPherson's"					
671	3/4" x 3/8"	...	12 gross	gross	0 6 5	McPherson's Pty. Ltd.
672	1" x 5/16"	...	18 "	"	0 5 5	
673	1 1/4" x 1/16"	...	3 "	"	0 5 9	
674	1 1/2" x 1/16"	...	10 "	"	0 6 2	
675	1 3/4" x 1/16"	...	2 "	"	0 6 3	
676	1" x 3/16"	...	50 "	"	0 6 6	
677	1 1/4" x 3/16"	...	6 "	"	0 7 4	
678	1 1/2" x 3/16"	...	1 "	"	0 7 11	
679	2" x 3/16"	...	2 "	"	0 8 6	
680	2 1/2" x 3/16"	...	2 "	"	0 9 6	
681	3" x 3/16"	...	1 "	"	0 10 6	
682	1" x 1/8"	...	100 "	"	0 8 8	
683	1 1/4" x 1/8"	...	1 "	"	0 9 2	
684	1 1/2" x 1/8"	...	4 "	"	0 9 8	
685	1 3/4" x 1/8"	...	1 "	"	0 10 9	
686	2" x 1/8"	...	4 "	"	0 11 6	
687	2 1/2" x 1/8"	...	2 "	"	0 13 0	
688	1 1/2" x 3/16"	...	3 "	"	1 0 0	
689	2" x 3/16"	...	1 "	"	1 1 6	
690	2 1/2" x 3/16"	...	1 "	"	1 3 0	
691	2" x 3/8"	...	2 "	"	1 11 0	
692	2 1/4" x 3/8"	...	2 "	"	1 15 0	
693	2 3/4" x 1"	...	2 "	"	2 18 0	

SCREWS AND SPLIT PINS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
	Screw, Set, Bright, Hex Head, Whitworth head and thread—"Duly & Hansford"					
694	1" x $\frac{3}{8}$ " ...	N.S.W.	2 gross	gross	0 13 0	McPherson's Pty. Ltd
695	1 $\frac{1}{2}$ " x $\frac{3}{8}$ " ...	"	2 "	"	0 15 8	
696	1 $\frac{3}{4}$ " x $\frac{3}{8}$ " ...	"	2 "	"	0 17 9	
697	2" x $\frac{3}{8}$ " ...	"	2 "	"	0 18 9	
698	1" x $\frac{1}{2}$ " ...	"	3 "	"	1 0 8	
699	1 $\frac{1}{4}$ " x $\frac{1}{2}$ " ...	"	2 "	"	1 1 5	
700	1 $\frac{1}{2}$ " x $\frac{1}{2}$ " ...	"	2 "	"	1 4 0	
701	1 $\frac{3}{4}$ " x $\frac{1}{2}$ " ...	"	1 "	"	1 6 2	
702	2" x $\frac{1}{2}$ " ...	"	1 "	"	1 8 3	
703	2 $\frac{1}{2}$ " x $\frac{1}{2}$ " ...	"	2 "	"	1 14 6	
704	3" x $\frac{1}{2}$ " ...	"	2 "	"	1 17 8	
705	2" x $\frac{5}{8}$ " ...	"	1 "	"	2 3 5	
706	2 $\frac{1}{2}$ " x $\frac{5}{8}$ " ...	"	1 "	"	2 8 0	
707	1 $\frac{1}{4}$ " x $\frac{3}{4}$ " ...	"	1 "	"	2 9 2	
708	1 $\frac{1}{2}$ " x $\frac{3}{4}$ " ...	"	1 "	"	2 9 2	
709	2" x $\frac{3}{4}$ " ...	"	1 "	"	2 15 5	
710	2 $\frac{1}{4}$ " x $\frac{3}{4}$ " ...	"	1 "	"	2 18 6	
711	3" x $\frac{3}{4}$ " ...	"	1 "	"	3 7 0	
712	2" x $\frac{7}{8}$ " ...	"	1 "	"	3 11 2	
713	2 $\frac{1}{4}$ " x 1" ...	"	1 "	"	5 15 0	
					Percentage off the Price List submitted with the tender and which shall be firm during the period of contract.	
714	Pins, Split, "Nettlefold's"—Any sizes ordered up to and including $\frac{3}{16}$ " dia.	Vict.	£100	"	67 $\frac{1}{2}$ %	Edward Duckett & Sons
715	" " " over $\frac{3}{16}$ " to $\frac{1}{4}$ " dia.	"	£120	"	67 $\frac{1}{2}$ %	
716	Any sizes ordered over $\frac{1}{4}$ " dia.	"	£150	"	67 $\frac{1}{2}$ %	
717	6" x $\frac{1}{2}$ " ...	"	15 gross	"	67 $\frac{1}{2}$ %	
718	7" x $\frac{1}{2}$ " ...	"	5 "	"	£2 7 9	A. E. & F. Tame
719—723	Nil				—60%	

NAILS, ETC.

7. As regards Items Nos. 755 to 766—the Nails shall be free from excessive machine feed marks, and shall be such that the nail when clamped at the mark in a vice, shall withstand being bent at right angles without cracking or breaking.

† Rates for Items 747–749, 755–768, are subject to the following discounts—

- (1) A cash discount not exceeding 3%, if cash be received within 10 days of date of invoice.
- (2) A cash discount not exceeding 2 $\frac{1}{2}$ %, if cash be received up to the end of the month following purchase.
- (3) A cash discount not exceeding 1 $\frac{1}{2}$ %, may be allowed if cash be received within 2 calendar months of the date of the first monthly statement.

As regards Items 747–749, 755–768, if ordered in lots of less than 1 cwt. of any one size, rate shall be 2/- per cwt. extra

As regards Items 755–768, delivery shall be given direct to the Spotswood General Storehouse, if so ordered.

NAILS, ETC.

Item No.	Description	Country of Manufre.	Estimated Requirements	Rate per	Rate	Name of Contractor
† { 724	Brads, Finishing, Cut, $\frac{5}{8}$ " ...	Victoria	200 lb.	lb.	£ s. d. 0 0 5	John R. Bell & Co.
725	" " " $\frac{3}{4}$ " ...	"	50 "	"	0 0 5	
† 726	Chaplets, Box, $\frac{7}{8}$ " ...	U.K.	20 gross	gross	0 10 0	McPherson's Pty. Ltd.
† { 727	" long 8" x $\frac{1}{4}$ " ...	"	5 "	"	0 14 6	H. A. Barnard Pty. Ltd.
728	" " 8" x $\frac{3}{8}$ " ...	"	5 "	"	...	Nil
	Keys, Steel, Gib head—					
729	$\frac{3}{8}$ " x $\frac{1}{4}$ " x 4" ...	Victoria	5 doz.	doz.	0 4 6	H. A. Barnard Pty. Ltd.
730	$\frac{1}{2}$ " x $\frac{3}{8}$ " x 4" ...	"	10 "	"	0 7 3	
731	$\frac{3}{4}$ " x $\frac{1}{2}$ " x 5" ...	"	3 "	"	0 13 9	
732	$\frac{5}{8}$ " x $\frac{7}{16}$ " x 5" ...	"	5 "	"	0 11 9	
733	$\frac{3}{4}$ " x $\frac{5}{8}$ " x 6" ...	"	3 "	"	1 1 0	
734	$\frac{7}{8}$ " x $\frac{5}{8}$ " x 6" ...	"	3 "	"	1 10 0	
	Nails, Clout, Wire—					
† 735	$\frac{3}{4}$ " x 12 g. bright ...	"	1000 lb.	lb.	0 0 3	John R. Bell & Co.
† { 736	$\frac{3}{4}$ " x 12 g. galvanized ...	"	400 "	"	0 0 3 $\frac{1}{2}$	
737	1" x 12 g. " ...	"	400 "	"	0 0 3 $\frac{1}{2}$	
738	1 $\frac{1}{4}$ " x 12 g. " ...	"	480 "	"	0 0 3 $\frac{1}{2}$	
739	1 $\frac{1}{2}$ " x 12 g. " ...	"	250 "	"	0 0 3 $\frac{1}{2}$	
† 740	Nails, Dogspikes, 2 $\frac{1}{2}$ " x $\frac{5}{16}$ " "Clyde" pattern, sheared type	"	25 tons	ton	28 9 9	
	Nails, Horse-shoe, full counters "Capewells"					
† { 741	No. 5 ...	U.K.	40 lb.	cwt.	4 18 0	McPherson's Pty. Ltd.
742	" 6 ...	"	300 "	"	4 6 10	
743	" 9 ...	"	400 "	"	3 11 5	
744	" 10 ...	"	200 "	"	3 11 5	
745	" 12 ...	"	100 "	"	3 11 5	
† 746	Nails, Malleable Casting, 4" ...	"	200 "	"	4 7 6	
	Nails, Roofing, Galvanized, Spring-headed, in 1 cwt. cases—					
† { 747	2" x 10 gauge ...	Victoria	5 cwt.	"	† 2 1 0	A. E. & F. Tame
748	2 $\frac{1}{4}$ " x 10 gauge ...	"	30 "	"	† 2 1 0	
749	2 $\frac{1}{2}$ " x 10 gauge ...	"	25 "	"	† 2 1 0	
	Nails, Steel, Black, Corrugated—					
750	4" ...	"	30 "	"	1 4 0	John R. Bell & Co.
751	5" ...	"	60 "	"	1 4 0	

Less 3 % discount—10 days.

NAILS, ETC.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Nails, Steel, Black, Corrugated—continued				£ s. d.	
† 752	6"	Victoria	200 cwt.	cwt.	1 4 0	John R. Bell & Co.
† 753	7"	"	200 "	"	1 4 0	
† 754	8"	"	5 "	"	1 4 0	
	Nails, Wire, Diamond-headed, any lengths ordered—					
755	No. 4 S.W.G.	"	10 "	"	†0 19 0	A. E. & F. Tame
756	" 5 "	"	15 "	"	†0 19 0	
757	" 6 "	"	200 "	"	†0 19 0	
758	" 7 "	"	80 "	"	†0 19 0	
759	" 8 "	"	100 "	"	†0 19 0	
760	" 9 "	"	140 "	"	†0 19 6	
761	" 10 "	"	175 "	"	†1 0 0	
762	" 11 "	"	40 "	"	†1 1 0	
763	" 12 "	"	140 "	"	†1 1 6	
764	" 13 "	"	40 "	"	†1 2 6	
765	" 14 "	"	25 "	"	†1 4 6	
766	" 15 "	"	10 "	"	†1 7 0	
† 767	Nails, Wire, Flat Head, 1" x 15 S.W. ga.	"	5 "	"	†1 7 0	
† 768	" " " 2" x 12 S.W. ga. ...	"	10 "	"	†1 1 6	
† 769	Pins, Gimp, japanned, ½" ...	"	550 lb.	lb.	0 0 7	British United Shoe Machinery Co. of Aust. Pty. Ltd.
† 770	Pins, Gimp, japanned, ⅝" ...	"	100 "	"	0 0 7	
† 771	Pins, Gimp, japanned, ¾" ...	"	100 "	"	0 0 7	
	Pins, Panel, Countersunk—					
† 772	½" x 20 ga.	"	100 "	"	0 0 7	A. E. & F. Tame
† 773	⅝" x 19 ga.	"	30 "	"	0 0 6½	British United Shoe Machinery Co. of Aust. Pty. Ltd.
† 774	⅝" x 20 ga.	"	100 "	"	0 0 7	A. E. & F. Tame
† 775	¾" x 18 ga.	"	200 "	"	0 0 5½	British United Shoe Machinery Co. of Aust. Pty. Ltd.
† 776	¾" x 20 ga.	"	50 "	"	0 0 7	A. E. & F. Tame
† 777	1" x 17 ga.	"	400 "	"	0 0 4½	British United Shoe Machinery Co. of Aust. Pty. Ltd.
† 778	1" x 20 ga.	"	10 "	"	0 0 7	A. E. & F. Tame
† 779	1¼" x 16 ga.	"	700 "	cwt.	1 17 0	Edward Duckett & Sons
† 780	1½" x 15 ga.	"	200 "	lb.	0 0 3	John R. Bell & Co.
† 781	1¾" x 16 ga.	"	200 "	cwt.	1 17 0	Edward Duckett & Sons
† 782	2" x 14 ga.	"	200 "	lb.	0 0 3	John R. Bell & Co.

Less 3% discount—10 days.

NAILS, ETC.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Pins, Tapered—				£ s. d.	
783	3" x No. 3	U.K.	2 doz.	doz.	0 1 4	McPherson's Pty. Ltd.
784	4" x No. 4	"	5 "	"	0 1 10	
785	4" x No. 6	"	10 "	"	0 2 4	
786	4" x No. 7	"	3 "	"	0 2 8	
787	Rivets, Copper, with burrs— ½" x 7, 8, 9 or 10 g., as ordered ...	Victoria	50 lb.	lb.	0 2 4	Edward Duckett & Sons Briscoe & Co. Ltd.
788	¾" x 6, 7, 8 or 10 g., as ordered ...	"	250 "	"	0 2 3	
789	½" x 6, 7, 8 or 10 g., as ordered ...	"	50 "	"	0 2 2	Edward Duckett & Sons
790	⅝" x 6, 7 or 8 g., as ordered ...	"	35 "	"	0 2 2	
791	¾" x 6, 7 or 8 g., as ordered ...	"	70 "	"	0 2 2	Briscoe & Co. Ltd.
792	⅞" x 6 g.	"	15 "	"	0 2 2	
793	1" x 6, 7 or 8 g., as ordered ...	"	35 "	"	0 2 2	Edward Duckett & Sons
794	Rivets, Copper, without burrs— ¾" x 8 or 10 ga., as ordered ...	"	70 "	"	0 1 10	
795	½" x 6 or 7 ga., as ordered ...	"	20 "	"	0 1 8	Briscoe & Co. Ltd.
796	1¼" x 4 ga.	"	20 "	"	0 1 8	
797	Rivets, Copper, without burrs, round head, ½" x ⅝" diameter	"	15 "	"	0 2 11	
798	Rivets, Tinman's, tinned— No. 6	"	10 "	cwt.	3 11 6	McPherson's Pty. Ltd.
799	" 8	"	10 "	"	3 8 6	
800	" 9	"	40 "	"	3 8 6	
801	" 10	"	25 "	"	3 7 6	
802	" 11	"	140 "	"	3 7 6	
803	" 12	"	40 "	"	3 4 0	
804	" 13	"	10 "	"	3 2 6	
805	" 14	"	140 "	"	3 2 6	
806	" 15	"	200 "	"	3 2 6	
807	" 16	"	200 "	"	3 1 0	
808	" 18	"	600 "	"	2 19 0	
809	" 20	"	200 "	"	2 19 0	
†810	Staples, Wire, Galv., 1½" x 8 gauge ...	"	2000 "	lb.	0 0 2½	Thomas Mitchell & Co. Pty. Ltd.
†811	Tacks, Copper, Wire— ⅝"	"	14 "	"	0 1 9	Edward Duckett & Sons
†812	¾"	"	600 "	"	0 1 9	
†813	⅞"	"	60 "	"	0 1 9	

NAILS, ETC.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor.
					£ s. d.	
† 814	Tacks, Cut, blued, fine— 1"	Victoria	10 lb.	cwt.	2 17 0	Edward Duckett & Sons
† 815	3"	"	400 "	"	2 11 0	
† 816	1" "Platypus"	"	1600 "	lb.	0 0 4½	British United Shoe Machinery Co. of Aust. Pty. Ltd.
† 817	3" "Dandy"	"	600 "	"	0 0 5½	
† 818	1" "Dandy"	"	40 "	"	0 0 5	
† 819	7" "Dandy"	"	40 "	"	0 0 4½	
† 820	Tacks, Cut, tinned, fine— 1"	"	180 "	cwt.	3 6 0	Edward Duckett & Sons
† 821	3"	"	800 "	"	3 6 0	
† 822	Tacks, Copper, Cut— 3"	"	100 "	lb.	0 1 6½	British United Shoe Machinery Co. of Aust. Pty. Ltd.
† 823	1"	"	1000 "	"	0 1 6½	
† 824	7"	"	600 "	"	0 1 6	
825	Tacks, for Gerrard Wire Tying Machine ...	Victoria (partly)	80,000 "	100	0 0 2	Gerrard Wire Tying Machines Co. Pty. Ltd.
826-830	—Nil					

HELIOGRAPHIC PROCESS MATERIALS AND CARBONS FOR ARC LAMPS

As regards items 835, 836, and 841 to 843, the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 50% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T. T. Exchange is effective as notified by the Commonwealth Bank.

As regards items 831 to 834 and 837 to 840 clause 7 of the conditions of contract provides for any adjustment in Customs Duty being reckoned on 50% of the contract rates and not 70%.

HELIOGRAPHIC PROCESS MATERIALS.						
† 831	Linen, Ferro Prussiate— 30" wide x 20 yards long ...	N.S.W. partly	30 rolls	roll	£2 3 1	Max Wurcker (1930) Ltd.
† 832	40" wide x 20 yards long ...	"	30 "	"	£2 14 9	
† 833	Linen, Heliographic, Gallic Acid Bath— 30" wide x 20 yards long ...	"	25 "	"	£2 19 0	
† 834	40" wide x 20 yards long ...	"	20 "	"	£3 15 0	
* 835	Paper, Ferro Prussiate, base—"Smooth Finish" 30"/31½" wide ...	U.K.	1 ton	ton	66 0 0	Wiggins Teape & Alex. Pirie (Export) Ltd.
* 836	40" wide ...	"	1 "	"	66 0 0	
† 837	Paper, Heliographic, Gallic Acid Bath— 30"/31½" wide x 20 yards long ...	N.S.W. partly	120 rolls	roll	£0 13 6	Max Wurcker (1930) Ltd.
† 838	40" wide x 20 yards long ...	"	120 "	"	£0 17 0	
† 839	Paper, Sepia, thin, negative— 30" wide x 20 yards long ...	"	5 "	"	£1 6 6	
† 840	40" wide x 20 yards long ...	"	5 "	"	£1 13 0	

† Less 2½ per cent. discount payment 30 days.

HELIOGRAPHIC PROCESS MATERIALS AND CARBONS FOR ARC LAMPS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
CARBONS FOR ARC LAMPS.						
†841	12" long x 13 m.m. dia. solid ...	U.K.	450	100	2 5 0	British General Electric Co. Ltd.
†842	12" long x 13 m.m. dia. cored, white flame	"	20	100	3 10 0	
†843	12" long x 18 m.m. dia. cored, white flame	"	20	100	4 10 0	
844-845	Nil.					

STAMPS, ETC.

The measurement of all Stamps shall be the "Die" Measurement, and the maximum length of any letter shall not exceed $\frac{1}{4}$ inch.

NOTE:—For Items Nos. 853 and 859 the rate is at per half inch. The measurement to be paid for shall be the diameter, or the length, as the case may be, of the face of the Stamp.

Faces, Rubber, for Stamps, lettered—						
*846	" V.R., cancelled " ...	Vict.	150	each	0 0 1½	} H. C. Horton
*847	" Week-end " ...	"	50	"	0 0 1	
*848	Goods Clean Receipt ...	"	50	"	0 0 2	
*849	Goods more or less Receipt ...	"	80	"	0 0 2	
Refacing Rubber Stamps, including supply of new pad, all kinds of stamps and type—						
850	Oblong, up to 2" in length, as ordered	"	240 lines	line	0 0 8	} C. G. Roeszler & Son Pty. Ltd.
851	Oblong, over 2" in length ...	"	80 ins. of line	inch of line or part thereof	0 0 4	
852	Circular or oval, up to 1½" in length, as ordered	"	5	each	0 1 8	} E. L. Morton
853	Circular or oval, over 1½" in length, as ordered	"	20 ins.	½ inch or part thereof	0 0 5	
Stamps, Dating—						
†854	No. 1½ ...	U.K.	500	each	0 0 7½	} Sands & MacDougall Pty Ltd.
†855	No. 2 ...	"	100	"	0 0 10½	
Stamps, Rubber, oblong, wooden handle, with wooden back, all kinds of stamps and type—						
† {	856 Up to 2", in length, as ordered ...	Vict.	800 lines	line	0 0 6	} E. L. Morton
	857 Over 2" in length, as ordered ...	"	2400 ins. of line	inch of line or part thereof	0 0 2	
Stamps, Rubber, circular or oval, as ordered, wooden handle with wooden back, all kinds of stamps and type—						
† {	858 Up to 1½" in length, as ordered ...	"	60	each	0 1 6	} C. G. Roeszler & Son Pty Ltd.
	859 Over 1½" in length, as ordered ...	"	50 ins	½ inch or part thereof	0 0 5	
860	Pads, Self-inking, purple or black, as ordered, No. 1 4½" x 2⅜" "Lightning"	N.S.W.	1000	each	0 0 7	Excelsior Supply Co. Ltd.
861-862—Nil						

BOOKS, ETC.

As regards Items Nos. 866 to 869, the paper used in the Copying Books shall be "Averil Star" brand.

Item No.	Description	Country of Manuf're.	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
†863	Binders, Instantaneous— Foolscap	N.S.W. (partly)	200	each	0 2 3	} Arthur J. Wallace
†864	Large Quarto, 11½" x 9"	"	4	"	0 2 1	
†865	Small Quarto	U.K.	4	"	0 1 11	Spicers & Detmold Ltd.
	Books—					
*866	Copying, Crown Folio, 500 leaves not paged, and no index, ½ basil, "Averil Star"	Vict. (partly)	30	"	0 8 0	} Sands & McDougall Pty. Ltd.
*867	Copying, Crown Folio, 750 leaves paged, ½ basil, with index, "Averil Star"	"	25	"	0 16 6	
*868	Copying, Large Post Folio, 750 leaves paged, ½ basil, with index, "Averil Star"	"	35	"	1 1 0	Spicers & Detmold Ltd.
*869	Copying, Large Post Folio, 750 leaves not paged, no index, ½ basil, "Averil Star"	"	50	"	0 14 8	Sands & McDougall Pty. Ltd.
*870	Foolscap, ruled, ½ cloth, 2 quire ...	"	2000	"	0 0 10½	R. B. Shankly Pty. Ltd.
*871	Foolscap, ruled faint, ½ basil, 2 quire ...	"	200	"	0 4 10	} Spicers & Detmold Ltd.
*872	Foolscap, ruled faint, ½ basil, 3 quire ...	"	120	"	0 5 10	
*873	Foolscap, ruled faint, ½ basil, 4 quire ...	"	175	"	0 6 10	
*874	Foolscap, ruled faint, single or double cash, paged or folioed, as ordered, ½ basil 4 quire	"	15	"	0 7 6	Spicers & Detmold Ltd.
*875	Manifold, 5" x 8", 100 leaves, in duplicate, two sheets of single-sided carbon paper to be supplied with each book	"	6000	doz.	0 8 4	W. J. Carr Pty. Ltd.
*876	Manifold, 14½" x 9", 100 leaves in triplicate, two page index in front, three sheets single-sided carbon paper to be supplied with each book	"	60	"	2 2 0	} Spicers & Detmold Ltd.
*877	Manifold, 14½" x 9", 100 leaves in duplicate two page index in front, two sheets single-sided carbon paper to be supplied with each book	"	36	"	1 13 0	
†878	Manifold "Plic" Quarto, 100 leaves in duplicate	"	120	"	1 4 0	Lamson Paragon Ltd.
*879	Memo., Foolscap 8vo, 8 sheet, American cloth	"	15,000	"	0 1 11	R. B. Shankly Pty. Ltd.
*880	Memo., Post 8vo, 18 sheet, full rexine	"	800	"	0 6 2	Redmond Inglis & Co. Pty. Ltd.
*881	Memo. Post 8vo, 18 sheet, full rexine indexed throughout	"	400	"	0 8 4	Alex. Cowan & Sons Ltd.
†882	Shorthand, note	"	900	"	0 2 5	} R. B. Shankly Pty. Ltd.
*883	Indices, Foolscap— Marble Cover, one leaf to a letter ...	"	100	each	0 0 5	
*884	½ basil, cloth sides turned in, on paper to sample. All tabs reinforced with linen as per contract sample, one leaf to a letter	"	25	"	0 4 6	} Spicers & Detmold Ltd.
*885	½ basil, cloth sides turned in, on paper to sample. All tabs reinforced with linen as per contract sample, two leaves to a letter	"	100	"	0 4 9	
*886	½ basil, cloth sides turned in, on paper to sample. All tabs reinforced with linen as contract sample, four leaves to a letter	"	120	"	0 5 6	Alex. Cowan & Sons Ltd.
887	Diaries, "Australian"	Vict.	£70	...	Less 35 %	Sands & McDougall Pty. Ltd.
†888	Sheets, Oil, hand made, Large Post Folio	U.K.	3 doz. sheets	doz.	0 1 6	Spicers & Detmold Ltd.
889-892	—Nil					

Percentage Off
Published Price
List which shall
remain firm du-
ring the period
of this contract.

BROWN PAPER, TICKET BOARDS, CARDS, ETC.

7. The Brown Paper under Item No. 896 shall be supplied flat or folded as may be ordered.

8. The Manila Luggage Checks shall be supplied in tiers of four, measuring $4\frac{1}{2}$ " x $7\frac{1}{2}$ " over all, slitted to within $\frac{1}{4}$ " of top and bottom of each check, perforated across $2\frac{1}{16}$ " from top, and $\frac{1}{4}$ " from bottom and packed in strawboard boxes each containing 1,000 checks.

9. The Royal Pasteboards shall be supplied in bundles of 1 gross each, and a label shall be attached to each bundle indicating the thickness of the Boards contained therein.

10. The Royal Surface Boards shall be supplied in bundles of 1 gross each, and a label shall be attached to each bundle indicating the color of the Boards contained therein.

11. The Manila Ticket Boards shall be supplied in bundles of 50 each.

12. The Wood Pulp Boards or Straw Board (Items 915 and 916) shall caliper between .070 and .075.

13. As regards quality and finish, the Ticket Boards supplied shall be in strict accordance with the contract samples.

Ticket Boards shall caliper not less than .029 nor more than .032.

As regards color, the Ticket Boards supplied shall be in strict accordance with the contract samples, and each delivery shall be marked with the Item No. to which it pertains.

The Ticket Boards shall be supplied trimmed to the exact size ordered, and shall be delivered in wrapped packages of one-half hundredweight each, exclusive of wrapper, and be free from moisture.

As regards items 908-911, 918 and 919, the rates include Telegraphic Transfer Exchange between Australia and London at 25 $\frac{1}{2}$ %, and if this rate of Exchange be varied during the contract period, the difference calculated on 60% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

The whole of the "Powers" cards required during the contract period shall be ordered from Kalamazoo (Aust.) Ltd., and that portion of Clause 11 of the conditions of contract under which the Corporation or the Contractor has the right to give to the other of them notice of termination when the estimated requirements of any item have been ordered, has been deleted from the contract with Kalamazoo (Aust.) Ltd.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
†893	Checks, Manila, Luggage, yellow	Vict. (partly)	250,000	1000	0 2 10	Spicers & Detmold Ltd.
†894	" " " white	Vict.	40,000	"	0 2 7 $\frac{1}{2}$	Sands & McDougall Pty. Ltd.
*895	" " " $6\frac{1}{2}$ " x $2\frac{1}{2}$ ", printed one side (four stereotypes supplied), two perforations. Washered. In gangs of four. Boxed in 1000's	Vict. (partly)	800,000	"	0 3 4	Spicers & Detmold Ltd.
†896	Paper, Brown, M.F. Finish—Double Imperial, Kraft, 56 lb.	"	15 tons	ton	29 3 4	Australian Paper Manufacturers Ltd.
†897	Kraft, 18" wide, 28 lb. to roll	"	10 rolls	"	29 3 4	
†898	Kraft, in rolls, 30" wide, 80 lb, Double Imperial Substance	"	250 "	"	29 3 4	
†899	Quad. Imperial, Kraft, 58" x 45", 136 lb.	"	10 reams	ream	1 15 5	
†900	M. F. Kraft, 17" x 27", 80 lb.	"	18 "	"	1 0 10	
†901	" Double Imperial, 120 lb.	"	3 "	"	1 11 3	Sands & McDougall Pty. Ltd.
†902	Pasteboards, Surface Boards, etc.—Royal Pasteboards, 20" x 25", 3 sheet, 21 lb.	"	700 gross	gross	0 7 10 $\frac{1}{2}$	
†903	" " 20" x 25", 6 sheet, 48 lb.	"	100 "	"	1 1 0	
†904	Royal Surface Board, 20" x 25"—Weight to be specified—Green, coated two sides	Vict.	15 "	"	1 2 6	
†905	Red " " "	"	10 "	"	1 2 6	
†906	Yellow " " "	"	15 "	"	1 2 6	
†907	Blue, coated one side only	"	15 "	"	1 0 6	

BROWN PAPER, TICKET BOARDS, CARDS, Etc.—continued.

Item No.	Description	Country of Manufre	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
†908	System Boards, 25½" x 30½", "Glory"— Any Standard colors ordered, 140 lb. ...	U.K.	70 reams	ream	4 13 0	Wiggins Teape & Alex. Pirie (Exp.) Ltd.
†909	" " " 110 lb. ...	"	40 "	"	3 13 0	
†910	" " " 170 lb. ...	"	30 "	"	5 13 0	
†911	" " " 220 lb. ...	"	3 "	"	7 6 0	
†912	Strawboard— 25" x 30", 12 oz., Plain ...	Vict. (partly)	8 cwt.	cwt.	0 15 6	Australian Paper Manufacturers Ltd.
†913	25" x 30", 24 oz., Plain ...	"	25 "	"	0 17 6	
†914	25" x 30", 32 oz., Plain ...	"	6 "	"	0 17 6	
†915	Strawboard, double white lined, 16 oz. Substance, 34" x 44" ...	"	30 "	"	1 1 6	
†916	Pulp Board— Wood Pulp Board, 34" x 44", 50's	20 cwt.	Nil.
†917	Royal Pulp Board, four sheet, assorted light tints.	Vict. (partly)	700 gross	gross	0 8 6	Australian Paper Manufacturers Ltd.
†918	Boards, Cloth lined, 20" x 25", any stan- dard colors ordered.	U.K.	3 "	"	2 17 0	
†919	Board, Postcard, coated two sided, 22½" x 28½". 49 lb. per gross	"	15 "	"	2 3 0	Wiggins Teape & Alex. Pirie (Export) Ltd.
†920	Ticket Boards, 23" x 25"— Buff ...	Vict. (partly)	2 tons	ton	32 0 0	
†921	Blue ...	"	1 "	"	32 0 0	Australian Paper Manufacturers Ltd.
†922	Cerise ...	"	15 "	"	32 0 0	
†923	Green ...	"	3 "	"	32 0 0	
†924	White ...	"	70 "	"	32 0 0	
†925	Yellow ...	"	1 "	"	32 0 0	
*926	Manila Ticket Board, 22½" x 30½" ...	"	12,000 sheets	100 sheets	4 10 0	Sands & McDougall Pty. Ltd.
*927	Labels, Linen, Large, No. 5 ...	Vict.	3000	1000	0 9 3	
*928	" " Small, 2½" x 2" ...	"	5000	"	0 5 7	
†929	" Manila, No. 5, in gangs of four and boxed	Vict. (partly)	800,000	"	0 2 3½	Spicers & Detmold Pty. Ltd.
†930	Labels, Manila, No. 6, in gangs of four and boxed	"	380,000	"	0 2 5½	
†931	Labels, Manila, 7" x 3½", in gangs of four and boxed	"	150,000	"	0 3 7½	
†932	Cards, for "Powers" Machines— Code No. 4 ...	N.S.W.	40,000	"	0 7 9	Kalamazoo (Aust.) Ltd.
†933	" 9 ...	"	20,000	"	0 7 9	
†934	" 34 ...	"	1,750,000	"	0 7 9	
†935	" 50 ...	"	2,400,000	"	0 7 9	
†936	" 52 ...	"	40,000	"	0 7 9	
†937	" 54 ...	"	80,000	"	0 7 9	

BROWN PAPER, TICKET BOARDS, CARDS, ETC.—continued.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate	Name of Contractor
	Cards, for "Powers" Machines—continued.				£ s. d.	
†938	Code 55	N.S.W.	140,000	1000	0 7 9	Kalamazoo (Aust.) Ltd.
†939	" 59	"	200,000	"	0 7 9	
†940	" 60	"	120,000	"	0 7 9	
941	N. e. i.	"		"	0 7 9	
942	Extra for colored cards ...	"		"	0 1 0	
943	Nil.					

SANITARY PAPER (TOILET).

7. The Corporation undertakes to order up to the quantities shown opposite to Items 944 and 945.

	Paper, Sanitary, Toilet—					
†944	Ordinary, in 10-oz. rolls, branded "Victorian Railways" on each sheet, perforated, approx. 570 sheets per roll, 4½" x 5"	Vict. partly	2500 dozen rolls	doz. rolls	0 2 3	Spicers & Detmold Ltd.
†945	Oval, in cases of 100 rolls, branded "Victorian Railways" on each sheet, sheets perforated and rolls slotted, 8-oz. rolls, 440 sheets per roll	N.S.W. partly	175 cases	case	0 19 3	British Paper Co. Pty. Ltd.
†946	8-lb. Sulphite, in packets, for "Safix" refills, 950 sheets per packet	"	400 doz. pkts.	doz. pkts.	0 5 10	

TYPEWRITING AND DUPLICATING MATERIALS

7. The spools under Items 950–958 shall fit the machine for which the ribbon is ordered.

8. As regards item 960, the rate includes Telegraphic Transfer Exchange between Australia and London at 2½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 40% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T. T. Exchange is effective as notified by the Commonwealth Bank.

† As regards items 947 & 948, the rates are subject to a discount of 2½% for payment within 30 days.

* As regards items 962 & 963, the rates are for lots of 1000. If ordered in larger quantities the rates are—

		Item 963	Item 962
In lots of 5000	...	£6 2 6	£1 5 0
" " 10000	...	£6 0 0	£1 2 6
" " 20000	...	£5 15 0	£1 0 0
" " 50000 & up	...	£5 10 0	£0 17 6

As regards items 960a and 966a, trial orders are to be placed on Ramsay & Hall Pty. Ltd., and further allotment will depend on result.

†947	Erasers, Circular	Vict. (partly)	250 doz.	doz.	† 0 1 9	Barnet Glass Co. Ltd.
†948	" Octagonal (Special use only) ...	"	5 "	"	† 0 1 11½	
†949	Ink, Black, Duplicating, 1st quality ...	N.S.W.	700 lb.	lb.	0 2 6	F. T. Wimble & Co. Ltd.

† Less 2½%—payment 30 days.

TYPEWRITING AND DUPLICATING MATERIALS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Ribbons, Typewriter, "Hall Mark"—				£ s. d.	
†950	Copying, any colors ordered, suitable for Barlock, Royal, and Imperial Machine, fitted with new spools	Vict. (partly)	20 doz.	doz.	0 7 5½	Ramsay & Hall Pty. Ltd.
†951	Copying, any colors ordered, suitable for Barlock, Royal, and Imperial Machines, fitted with 2nd hand spools	"		"	0 7 5½	
†952	Copying, any colors ordered, suitable for all other machines, fitted with new spools	"	40 "	"	0 7 5½	
†953	Copying, any colors ordered, suitable for all other machines, fitted with 2nd hand spools	"		"	0 7 5½	
†954	Non-copying Record, Black, fitted with new spools	"	50 "	"	0 7 5½	
†955	Non-copying Record, Black, fitted with 2nd hand spools	"		"	0 7 5½	
†956	Copying, narrow, bi-colored, any colors ordered, suitable for Barlock, Royal and Imperial machines, fitted with new spools	"	2 "	"	0 7 5½	
†957	Copying, narrow, bi-colored, any colors ordered, suitable for Barlock, Royal and Imperial machines, fitted with 2nd hand spools	"		"	0 7 5½	
*958	Ribbons, Typewriter, Purple, for "Ditto" machines	N.S.W.	5	each	0 8 6	Pencarbon Co. (Aust.) Ltd.
†959	Pads, Ink for E.D. Mimeograph	...	300	...	...	Nil
†960	Stencils, Foolscap Folio, Indestructible in boxes of 5 quires "Swallow"	U.K.	1200 qrs.	quire	0 5 0	John Withers & Son Pty. Ltd.
†960A	Stencils, Foolscap Folio, Indestructible "Dri-Sten"	Vict. (partly)		"	0 5 0	Ramsay & Hall Pty. Ltd.
†961	" " Quarto	...	100 "	...	...	Nil
	Sundries for Model F2B Addressograph machine—					
*962	Plates, in lots of 1000 (see note)	Vict.	25,000	1000	*1 7 6	Spicers & Detmold Ltd.
*963	Frames, in lots of 1000 (see note)	"	5000	"	*6 5 0	
*964	Ribbons, Purple	...	20	...	...	Nil
†965	Tapes, Ticket Dating, Black Record, 1½" x 21' long	Vict. (partly)	200 doz.	doz.	0 11 0	Ramsay & Hall Pty. Ltd.
†966	Varnish, Obliterating, for dry stencils, in 1 oz. bots.	Vict.	200 bots.	bottle	0 0 9	John Withers & Son Pty. Ltd.
†966A	Varnish, Obliterating, for dry stencils, in 1 oz. bottles.	Vict. (partly)		"	0 0 9	Ramsay & Hall Pty. Ltd.
†967	Varnish, Obliterating, for wet stencils, in 1½ oz. bots.	...	20 "	...	...	Nil
968	Nil					

PRINTERS' INK, ETC.

7. Ink to be supplied under *Item* No. 969 shall not contain any Resin Oil Varnish.

8. The Ink to be supplied under *Items* Nos. 969 to 978 shall be high grade quality and dense colors.

9. The Ink to be supplied under *Items* Nos. 979 to 989 shall be true as regards quality and color to sample exhibited by corporation.

PRINTERS' INK, ETC.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
†969	Ink, Printing, Letterpress— Black ...	Vict.	1400 lb.	lb.	£ s. d. 0 1 3	S. Cooke Pty. Ltd.
†970	Blue, Celestial, Ultramarine ...	N.S.W.	110 "	"	0 4 6	F. T. Wimble & Co. Ltd.
†971	Persian Orange ...	Vict.	30 "	"	0 5 0	S. Cooke Pty. Ltd.
†972	Bronze Blue, in 1-lb. tins ...	"	10 "	"	0 3 0	
†973	Green, Veredene ...	N.S.W.	70 "	"	0 3 9	F. T. Wimble & Co. Ltd.
†974	Red ...	"	500 "	"	0 3 9	
†975	Violet ...	Vict. (partly)	15 "	"	0 5 0	R. Collie & Co. Pty. Ltd.
†976	Violet, Copying ...	N.S.W.	3 "	"	0 7 6	F. T. Wimble & Co. Ltd.
†977	Quick drying, 1st quality Half-tone Dense Black	"	200 "	"	0 3 0	
†977A	Quick-drying, 1st quality Half-tone Dense Black, "No. 1 Process"	Vict. (partly)		"	0 5 0	R. Collie & Co. Pty. Ltd.
†978	Quick Drying, 1st quality, Half-tone Mid Photo Brown Red shade; sample "A"	"	80 "	"	0 4 9	
	Ink, Flat, Smooth, Ticket Printing, Letterpress—					
*979	Blue ...	"	12 "	"	0 2 4	S. Cooke Pty. Ltd.
*980	Blue, Pale ...	Vict.	90 "	"	0 2 0	
*981	Brown ...	"	25 "	"	0 2 4	R. Collie & Co. Pty. Ltd.
*982	Buff ...	"	12 "	"	0 2 0	S. Cooke Pty. Ltd.
*983	Cerise ...	Vict. (partly)	700 "	"	0 2 3	R. Collie & Co. Pty. Ltd.
*984	Green ...	Vict.	650 "	"	0 2 0	S. Cooke Pty. Ltd.
*985	Maroon ...	Vict. (partly)	12 "	"	0 2 4	R. Collie & Co. Pty. Ltd.
*986	Orange ...	Vict.	650 "	"	0 2 2	
*987	Red ...	"	100 "	"	0 2 6	S. Cooke Pty. Ltd.
*988	Violet ...	Vict. (partly)	80 "	"	0 2 4	R. Collie & Co. Pty. Ltd.
*989	Yellow ...	Vict.	18 "	"	0 2 0	S. Cooke Pty. Ltd.
†990	Glue, Rubberised or Flexible ...	"	300 "	"	0 0 9	R. Collie & Co. Pty. Ltd.
†991	Dryers, Cobalt Elastic ...	Vict. (partly)	25 "	"	0 3 6	
†992	Transparent Tint Preparation ...	"	30 "	"	0 2 0	R. Collie & Co. Pty. Ltd.
†993	Solution, Lye, in 1-gallon returnable jars	Vict.	12 gals.	gal.	0 3 6	
†994	Solution, Roller Wash, in 4-gallon tins ...	Vict. (partly)	360 "	"	0 2 5	S. Cooke Pty. Ltd.
†995	Varnish, Letterpress, Lowering ...	Vict.	24 "	"	0 6 6	
†996	Wire Stapling, 4 lb. to coil, 22 gauge ...	Vict. (partly)	168 lb.	lb.	0 0 7	Moreland Wire Co.
†997	" " " 19 gauge ...	"	168 "	"	0 0 6	
†998	" " " 26 gauge ...	"	336 "	"	0 0 10 1/2	S. Cooke Pty. Ltd.
*999	Paper—Manilla—Oiled, Cylinder, 45" wide, in rolls of approximately 100 lbs.	U.S.A.	5 rolls	100 lb.	4 9 6	
1000	Page Cord, in 4-oz. balls ...	Vict.	12 doz.	doz.	1 0 0	F. T. Wimble & Co. Ltd.

CONDUIT PIPE AND FITTINGS.

7. All Conduit Pipes and Fittings shall comply with B.E.S.A. Specification No. 31/1923.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Pipe, Conduit, Plain, enamelled— "Amalgamated Conduits, Ltd."				£ s. d.	
1001	½" ...	Vict.	18,000 feet	100 ft.	0 8 4	Warburton, Franki (Melb.) Ltd.
1002	¾" ...	"	1500 "	"	0 13 1	
1003	1" ...	"	1500 "	"	1 0 6	
1004	1½" ...	"	600 "	"	1 19 0	
	Pipe, Conduit, Screwed, enamelled— "Amalgamated Conduits, Ltd."					
1005	½" ...	"	7500 "	"	0 16 8	Falk, Stadelmann & Co. Ltd.
1006	¾" ...	"	9000 "	"	1 0 2	
1007	1" ...	"	1600 "	"	1 13 0	
1008	1½" ...	"	4500 "	"	2 11 7	Associated General Electric Industries Ltd.
1009	1½" ...	"	150 "	"	4 1 9	
1010	2" ...	"	400 "	"	6 7 3	
1011	Pipe, Conduit, Welded, unenamelled, ½" ... "Amalgamated Conduits, Ltd."	"	450 "	"	0 12 3	British Genera Electric Co. Ltd.
	Fittings, Conduit, Plain—					
1012	Boxes, ½" straight through, "F.G.S." ...	"	60	each	0 0 8	William Adams & Co Ltd.
1013	Elbows, ½", "Ring Grip" ...	"	150 doz	doz	0 2 2	Brooks, Robinson, Pty. Ltd.
1014	Elbows, ¾", "Ring Grip" ...	"	40 "	"	0 3 3	William Adams & Co. Ltd.
1015	Elbows, 1", "Ring Grip" ...	"	20 "	"	0 7 6	
1016	Elbows, 1½", ...	U.K.	10 "	"	0 10 5	The Lawrence & Han- son Elec. Co. Ltd.
1017	Sleeves, ½", "Ring Grip" ...	Vict.	40 "	"	0 1 11	Remingtons Pty. Ltd.
1018	Tees, ½", "Ring Grip" ...	"	70 "	"	0 2 11	
	Fittings, Conduit, Screwed—					
1019	Bends, ¾", internal threads	N.S.W.	10 "	"	0 5 11	John Danks & Son Pty. Ltd.
1020	Bends, 1" ...	"	25 "	"	0 9 0	
1021	Bends, 1½" ...	"	15 "	"	0 13 10	
1022	Boxes, ¾", 3-way ...	Vict.	25 "	"	0 7 0	Noyes Bros. (Melb.) Pty. Ltd.
1023	Bushes, reducing, ¾" to ½"	U.K.	20 "	"	0 1 5	The Lawrence & Han- son Elec. Co. Ltd.
1024	Elbows, ½" ...	N.S.W.	40 "	"	0 2 7	A. H. Gibson (Elec- trical) Co. Pty. Ltd.
1025	Elbows, ¾" ...	"	50 "	"	0 3 2	
1026	Elbows, 1" ...	"	20 "	"	0 5 5	
1027	Elbows, 1½" ...	"	5 "	"	0 9 4	
1028	Elbows, 1", inspection ...	"	5 "	"	0 7 5	Noyes Bros. (Melb.) Pty. Ltd.
1029	Elbows, 1½", inspection ...	"	5 "	"	0 10 3	

CONDUIT PIPE AND FITTINGS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Fittings, Conduit, Screwed—continued—				£ s. d.	
† { 1030	Lock Nuts, $\frac{5}{8}$ " ...	Vict.	5 doz.	doz.	0 1 2	Brooks, Robinson, Pty. Ltd.
1031	Lock Nuts, $\frac{3}{4}$ " ...	"	30 "	"	0 1 3	
1032	Lock Nuts, 1" ...	"	5 "	"	0 1 6½	
1033	Lock Nuts, 1½" ...	"	5 "	"	0 1 10	
† { 1034	Saddles, $\frac{5}{8}$ " ...	"	700 "	gross	0 0 8½	British General Electric Co. Ltd.
1035	Saddles, $\frac{3}{4}$ " ...	"	200 "	"	0 0 10½	
1036	Saddles, 1" ...	"	100 "	"	0 1 6½	
1037	Saddles, 1½" ...	"	20 "	"	0 4 5	
1038	Saddles, 1½" ...	"	5 "	"	0 5 5	
1039	Saddles, 2" ...	"	5 "	"	0 6 11	
† { 1040	Sleeves, $\frac{3}{4}$ " ...	N.S.W.	20 "	doz.	0 2 7	William Adams & Co. Ltd.
1041	Sleeves, 1" ...	"	10 "	"	0 3 6	
1042	Sleeves, 1½" ...	"	3 "	"	0 4 10	
1043	Sleeves, 1½" } "Thompson, Scrougall,"	"	5 "	"	0 7 0	
1044	Tees, $\frac{5}{8}$ " ...	"	10 "	"	0 3 2	
† { 1045	Tees, $\frac{3}{4}$ " ...	"	10 "	"	0 4 6	
1046	Tees, 1" ...	"	10 "	"	0 7 8	
1047-1050	Nil					

ELECTRIC CABLES AND WIRES.

Period 1.10.34 to 30.6.36, excepting Items 1065-1069 and 1127 to 1129, which are for period 1.10.34 to 30.9.35.

See Appendix "C" for Specification.

Time for delivery will be allowed for importation of the Stores under Items Nos. 1063 to 1067 and 1127 to 1129. The rates do NOT include wharfage dues of the Melbourne Harbor Trust, but in order that the Corporation may receive exemption from wharfage dues, the Bill of Lading for each shipment shall be made out in favor of the Comptroller of Stores. Wharfage will be cleared by the Comptroller of Stores and Delivery Order returned to the Melbourne Office of the Contractor to enable him to complete delivery.

As regards Items Nos. 1088 to 1105, the rates include Telegraph Transfer Exchange between Australia and London at 25½ per cent., and if this rate of Exchange be varied during the contract period, the difference calculated on 45 per cent. of the contract rates shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

As regards Item 1129, the rate includes Telegraphic Transfer Exchange between Australia and London at 25½ per cent., and if this rate be varied at the date of delivery, the difference calculated on £4 8s. 0d. per 1000 yds. which is also based on the metal basis shown below, shall be to the Corporation's account.

ELECTRIC CABLES AND WIRES—continued

As regards Items 1078 to 1087, 1115 and 1116, rates include Telegraphic Transfer Exchange between Australia and London at 25½ per cent., any variation in this rate, at the date of delivery, to be adjusted on 45 per cent. of the contract rates.

This also applies to Items 1130, 1131, 1134 to 1138, excepting that the adjustment is to be made upon the following c.i.f. values :—

				£	s.	d.	
Item 1130	...	...	...	9	11		per 100 yards
Item 1131	...	...	...	16	4		"
Item 1134	...	...	...	1	2	10	"
Item 1135	...	...	...	2	5	8	"
Item 1136	...	...	...	2	18	11	"
Item 1137	...	...	...	1	0	7	"
Item 1138	...	...	...	1	18	3	"

As regards Items 1072 to 1077, 1106 to 1114, 1127 and 1128, 1132 to 1133, 1141 and 1142, the rates are firm in respect of Exchange.

† As regards Item No. 1129, the rate is based on E.C. Wire bars at £35 5s. 0d. per ton. Adjustment is to be made in accord with the London Metal Exchange prices published in sterling in Bagot and Thompson's list at the time the order is received at the works in England.

The rate is also based on Lead at £11 per ton, and adjustment is to be made in accordance with the settlement price of Colonial Lead as published in Bagot and Thompson's list at the time the order is received in England.

The amounts of variation are as follow :—

Variation per 1000 yards per 20/- alteration in the price of :—

				Copper	Lead
				s. d.	s. d.
Item No. 1129	...	...	...	0 1½	2 1½

Contractor to advise rate at which order has been accepted.

† As regards Items Nos. 1063–1069, 1117–1126 and 1139–1140, the rates are based on the price of £44 1s. 3d. per ton, which is the equivalent in Australian currency of the London Metal Exchange price in English currency for E.C. Wire bars at £35 5s. 0d. The rates are to be varied up or down by one-tenth of a penny per lb. of copper for each complete 20s. or part thereof by which the price in Australian currency of E.C. Wire bars, on the date of receipt or order, is greater than £44 19s. 11d., or less than £44 per ton respectively. The equivalent in Australian currency of the London Metal Exchange price of E.C. Wire bars is the London Metal Exchange price for E.C. Wire bars as issued by the Australian Mines and Metals Association on that day increased by the same percentage as is quoted by the Commonwealth Bank or substituted authority as the buying rate for T.T. on London. If no price of wire bars is issued by the Association on any day, the last price issued prior to that day shall apply. In the event of a dispute concerning the published price of wire bars the figures advised by the Australian Mines and Metal 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.

If no buying rate is quoted by the associated banks for T.T. on London on any day, the rate last published earlier shall apply. In the case of a dispute concerning the published buying rate for T.T. on London, the figures advised by the associated banks as last published by them prior to the day of receipt of the order shall be mutually accepted.

† As regards Items 1088 to 1105, rates are based on the price of £36 per ton for Electrolytic Copper Wire Bars. The rates are to be varied up or down by 0.2d. for every £1 or part thereof, in the rise or fall of the price of bars ruling at the date of the receipt or each order by the Contractor, as published in the Melbourne "Argus." If no price is published on the date of receipt or order, the price last published shall apply.

As regards Items 1063, 1064 and 1065, the rates are for orders of not less than 3 cwt. For lesser quantities extras will be charged as follow :—

Under 336 lb.	Extra	0.5d.
" 200	"	1.0d.
" 100	"	1.5d.
" 50	"	2.5d.
" 25	"	4.5d.
" 10	"	6.5d.
" 5	"	12.5d.

ELECTRIC CABLES & WIRE—continued.

As regards Items 1066 and 1067, the rates are for orders of not less than two ton lots.

As regards Items 1068 and 1069, the rates are for orders of not less than 200 No.

As regards Items 1139 and 1140, the rates are for orders of not less than 3 cwt. For lesser quantities extras will be charged as follow:—

Under 336 lb.	Extra 1.0d.
„ 200 lb. to 100 lb.	„ 1.5d.
„ 100 lb. to 50 lb.	„ 2.5d.
„ 50 lb. to 40 lb.	„ 6.0d.
„ 40 lb. to 30 lb.	„ 8.0d.
„ 30 lb. to 20 lb.	„ 11.0d.
„ 20 lb. to 10 lb.	„ 14.0d.
„ 10 lb. to 5 lb.	„ 17.0d.
„ 5 lb.	„ 26.d.

As regards Item No. 1065, the rate is for an order of not less than 3 cwt. at a time. It will often expedite delivery if ordered in standard drums or packages. A schedule of standards is given below—Special cutting always entails delay.

As regards Item No. 1129, the minimum quantity to be ordered is 500 yards

SCHEDULE OF STANDARD PACKAGES.

Item No.	Size	Standard Packing	
		Length	Net Weight
1065 ...	91/.044	yards 1,925	lb. 3,170

Time for Delivery

Items Nos. 1063 to 1067, 1139–1140, three to four weeks to be allowed for delivery.

Items Nos. 1068–1069, five to six weeks to be allowed for delivery.

Items Nos. 1088 to 1105, sufficient time to be allowed, if required, to import stock for initial orders.

Items Nos. 1127–1129, twelve to thirteen weeks to be allowed for delivery.

Names of Manufacturers.

Items Nos. 1063 to 1069, 1117 to 1126, 1139, 1140—Metal Manufactures Pty. Ltd., New South Wales.

Items Nos. 1072 to 1077, 1141, 1142—London Electric Wire Co., & Smith's Ltd., England.

Items Nos. 1078 to 1087—Henry Wiggins & Co. Ltd, England.

Items Nos. 1115 and 1116—British Permel Enamel Wite Co., England.

Items Nos. 1130, and 1131—Johnson & Phillips Ltd., England.

Items Nos. 1088 to 1094—British Driver Harris Co.

Items Nos. 1095 to 1105—General Electric Co. of England.

Items Nos. 1106 to 1114—British Insulated Cables Limited, England.

Items Nos. 1127 and 1128—Liverpool Electric Cable Co. Ltd.

Item No. 1129—British Insulated Cables Ltd.; England.

Items Nos. 1132, 1132A, 1133—British Insulated Cables Ltd. England.

Item No. 1134—Callender Cable and Construction Co. Great Britain.

Items Nos. 1135 to 1138—Macintosh Cable Co. Ltd.

As regards Items Nos. 1063 to 1067, also 1127 to 1129, the rates do not include wharfage dues of the Melbourne Harbor Trust, and the Contractor should be requested on each order to arrange for the material to be consigned and Bill of Lading made out in favor of, The Victorian Railways Commissioners in order that the Shipping Clerk may arrange for exemption of wharfage, the delivery order to be returned to the Company to enable it to complete delivery.

As regards Items Nos. 1063 and 1064, arrangements are to be made at the time of placing of orders for inspection, measuring and weighing, to be conducted by the Permanent Testing Officer of the Postmaster-General's Department, resident at Port Kembla, and to forward certificates of inspection, etc., quoting the order number, to the Comptroller of Stores. A copy of each order and such information as is called for should be forwarded to the Superintending Engineer of the Postal Department, Sydney, New South Wales, with a request that this be done at the Department's expense simultaneously with the placing of order. A copy of this schedule has already been forwarded.

ELECTRIC CABLES AND WIRES—continued.

Item No.	Description	Country of Manuf're.	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
1051	Cable, Hard-drawn, Stranded Copper— 7/036, Area 0.007 sq. in.	Nil	Nil
1052	7/048, Area 0.0125 „ ...	...	Nil	...	...
1053	7/064, Area 0.0225 „ ...	...	Nil	...	...
1054	7/080, Area 0.035 „ ...	...	Nil	...	...
1055	7/097, Area 0.05 „ ...	...	Nil	...	...
1056	7/118 Area 0.075 „ ...	...	Nil	...	...
1057	19/072, Area 0.075 „ ...	...	Nil	...	...
1058	19/083, Area 0.10 „ ...	...	Nil	...	...
1059	19/101, Area 0.15 „ ...	...	Nil	...	...
1060	37/093, Area 0.25 „ ...	...	Nil	...	...
1061	37/116, Area 0.375 „ ...	...	Nil	...	...
1062	61/103, Area 0.5 „ ...	...	Nil	...	...
1063	Wire, 0.193 Hard Drawn Copper ...	N.S.W.	40,000 ft.	lb.	† 0 0 8.5	British Insulated Cables Ltd.
1064	Wire, 0.25 sq. in. Contact, Hard Drawn Copper (Drawing F. 1460) ...	„	18,000 „	„	† 0 0 9	
1065	Cable, copper, 91/044 annealed, flexible, area 0.14 sq. in. ...	„	9000 yds.	„	† 0 0 11.3	
1066	Wire, copper, to Specification, 150 lb. per mile ...	„	3 tons	ton	† 78 1 3	
1067	Wire, copper, to Specification, 200 lb. per mile ...	„	6 „	„	† 77 1 3	
1068	Sleeves, Jointing, Copper, to Specification No. 5 (Long) ...	„	450	1000	† 8 0 0	
1069	No. 6 (Long) ...	„	350	„	† 6 10 0	Nil
*1070	Tapes, Copper, No. 3, to Specification ...	...	150 lb.	...	...
*1071	Binders, Copper, No. 3, to Specification ...	...	1500 „	...	...
	Wire, Nickel, Copper Alloy—“Eureka” Resistance Wire ...					The Liverpool Elect- ric Cable Co. Ltd.
1072	14 S.W.G. ...	U.K.	15 „	lb.	0 3 0	
1073	16 „ ...	„		„	0 3 0	
1074	18 „ ...	„		„	0 3 3	
1075	24 „ ...	„		„	0 4 0	
1076	26 „ ...	„		„	0 4 3	
1077	28 „ ...	„		„	0 4 6	
	Wire, Nickel, Chromium—“Brightray”					Johnson & Phillips Ltd.
1078	12 S.W.G. ...	„	8 „	„	0 9 2	
1079	13 „ ...	„	5 „	„	0 9 5	
1080	14 „ ...	„	5 „	„	0 9 9	
1081	16 „ ...	„	8 „	„	0 10 2	
1082	18 „ ...	„	5 „	„	0 10 10	

ELECTRIC CABLES AND WIRES—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Wire, Nickel, Chromium—"Brightray"—continued—				£ s. d.	
1083	20 " " " "	U.K.	8 lb.	lb.	0 11' 9"	Johnson & Phillips Ltd.
1084	22 " " " "	"	5 "	"	0 12' 9"	
1085	23 " " " "	"	5 "	"	0 13' 8"	
1086	26 " " " "	"	35 "	"	0 16' 8"	
1087	27 " " " "	"	8 "	"	0 18' 2"	
	Strip Nickel, Chromium—"Nichrome IV."—					
1088	.003 x 1/32" " " "	U.K. (partly)	1 "	"	† 1 11' 11"	
1089	.004 x 1/32" " " "	"	1 "	"	† 1 7' 2"	
1090	.005 x 1/32" " " "	"	2 "	"	† 1 4' 11"	
1091	.006 x 1/32" " " "	"	1 "	"	† 1 3' 2"	
1092	.007 x 1/32" " " "	"	6 "	"	† 1 1' 5"	
1093	.012 x 1/32" " " "	"	3 "	"	† 0 16' 8"	
1094	.006 x 1/16" " " "	"	1 "	"	† 1 2' 2"	
	Wire, Copper, tinned, (fuse)—"G.E.C."—					
1095	16 S.W.G. " " "	"	15 "	"	0 1 2½	British General Electric Co. Ltd.
1096	18 " " " "	"	35 "	"	0 1 3¼	
1097	20 " " " "	"	25 "	"	0 1 4¼	
1098	22 " " " "	"	15 "	"	0 1 6¼	
1099	24 " " " "	"	12 "	"	0 1 6½	
1100	26 " " " "	"	1 "	"	0 1 7½	
1101	28 " " " "	"	1 "	"	0 1 7¾	
1102	29 " " " "	"	15 "	"	0 1 9	
1103	32 " " " "	"	1 "	"	0 2 3	
1104	36 " " " "	"	2 "	"	0 2 5½	
1105	40 " " " "	"	1 "	"	0 3 5½	
	Wire, Copper, Enamelled—					
1106	22 S.W.G.—"Prescot" " " "	"	70 "	"	0 1 2	
1107	24 " " " "	"	70 "	"	0 1 4	
1108	28 " " " "	"	35 "	"	0 1 6	
1109	30 " " " "	"	35 "	"	0 1 6	
1110	31 " " " "	"	16 "	"	0 1 6½	
1111	32 " " " "	"	80 "	"	0 1 7	Associated General Electric Industries Ltd.
1112	33 " " " "	"	8 "	"	0 1 7	
1113	34 " " " "	"	35 "	"	0 1 7	
1114	36 " " " "	"	24 "	"	0 1 8	
1115	44 " " "Permel" " " "	U.K.	8 "	"	0 4 6	
1116	46 " " " " " " "	"	8 "	"	0 7 3	Johnson & Phillips Ltd.

ELECTRIC CABLES AND WIRES—continued.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
1117	Wire, Copper, D.C.C.—“Kembla” 8 S.W.G. ...	N.S.W.	10 lb.	lb.	†0 1 0	Associated General Electric Industries Ltd.
1118	10 „ ...	„	5 „	„	†0 1 2	
1119	11 „ ...	„	120 „	„	†0 1 0·5	
1120	12 „ ...	„	10 „	„	†0 1 0·5	
1121	14 „ ...	„	350 „	„	†0 1 1	
1122	15 „ ...	„	180 „	„	†0 1 2	
1123	16 „ ...	„	500 „	„	†0 1 3	
1124	17 „ ...	„	250 „	„	†0 1 4	
1125	18 „ ...	„	500 „	„	†0 1 5	
1126	20 „ on 14 lb. drum	„	420 „	„	†0 1 7	
1127	Cable, Tinned, copper, 26 pairs, in accordance with Postal Department's Specification No. 609B (1/10/34-30/9/35)	U.K.	300 yds	1000 yds.	96 8 0	The Liverpool Electric Cable Co. Ltd.
1128	Cable, Tinned, copper, 15 pairs, in accordance with Postal Department's Specification No. 609B (1/10/34-30/9/35)	„	100 „	„	62 8 3	
1129	Cable, 1 pair, enamelled, cotton (beeswaxed) and lead covered to Postal Department's Specification No. 560A (1/10/34-30/9/35)	„	1000 „	„	†5 18 0	British Insulated Cables Ltd.
	Wires, Copper, flexible—					
1130	23/0076 twin, office ...	„	7000 „	100 yds.	0 14 3	Johnson & Phillips Ltd.
1131	40/0076 „ „ ...	„	3000 „	„	1 3 5	
†1132	40/0076 twin, asbestos covered flex (under one braiding) “Helsby”	„	1250 „	„	2 0 0	Associated General Electric Industries Ltd.
†1132A	40/0076 twin, asbestos covered flex (twisted pairs) “Helsby”	„	500 „	„	2 0 0	
†1133	40/0076 three core, asbestos covered “Helsby”	U.K. (partly)	40 „	„	2 17 0	Noyes Bros. (Melb.) Pty. Ltd.
†1134	40/0076, twin, workshop, “Callender”	„	3500 „	„	1 12 8	
	Wire, copper, flexible, in black or chamaleon finished outside sheath—“Maconite”					
1135	11/012, 3 core, cab tyre	„	800 „	„	3 5 4	Brooks, Robinson Pty. Ltd.
1136	16/012, 3 core, cab tyre	„	800 „	„	4 4 3	
1137	11/012, twin, cab tyre	„	700 „	„	1 9 5	
1138	16/012, „ „	„	3500 „	„	2 14 8	
	Wire, Copper, Strip, D.C.C.—					
1139	·375" x ·1875" ...	N.S.W.	20 cwt.	lb.	†0 1 2·7	British Insulated Cables Ltd.
1140	·375" x ·125" ...	„	10 „	„	†0 1 3·5	

ELECTRIC CABLES AND WIRES—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
1141	Wire, Copper, D.S.C., in 5 lb. or 7 lb. reels, as ordered— 23 S.W.G.	U.K.	24 lb.	"	0 3 0	The Liverpool Electric Cable Co. Ltd.
1142	26 S.W.G.	"	60 "	"	0 3 5	
1143-1146	Nil	"				

ELECTRIC, POWER AND LIGHTING ACCESSORIES.

As regards items 1169 to 1171, 1173, 1175, 1177 to 1179, 1181, 1186, 1188, 1189 to 1193, 1195-1197 and 1213, the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 40% of the Contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

As regards items 1198 and 1199, the rates are firm for exchange and conversion.

As regards items 1195 to 1197, the rates are firm for conversion, but are subject to exchange as per above.

As regards the contract with the British General Electric Co. Ltd., in the event of any alterations in Customs Duty and Primage Duty subsequent to the date of the tender or in the existing method of assessing the same, the difference will be to the Corporation's account, adjustment to be made in accordance with clause 7 of conditions of contract.

Sufficient time to be allowed to meet initial orders on British General Electric Co. Ltd.

†1147	Adaptors, Bayonet	Vict.	700	each	0 0 3	H. Rowe & Co. Pty. Ltd.
*1148	Bases, Porcelain, for lightning arresters, to Drawing No. 10a/45	"	750	"	"	Nil
†1149	Bases and Shields, Radiator, Cruciform type, for "Hecla" Standard Radiators	"	300 sets	set	0 2 1	Brooks, Robinson & Co. Ltd.
*1150	Blocks, Porcelain, for R.S.A. terminal to Drawing No. 2.A.2.	"	1500	"	"	Nil
†1151	Blocks, base, wood, 9" x 3"	"	20 doz.	dozen	0 2 11½	Brooks, Robinson & Co. Ltd.
†1152	" " " 6" x 3"	"	50 "	"	0 2 5	
†1153	" " " 3" dia.	"	100 "	"	0 0 9½	
†1154	Clips, Battery, Test, Universal 25 amp. with Red I.R. Covers	"	2 gross	"	"	Nil
†1155	Clips, Battery, Test, Universal, 25 amp. with Black I.R. Covers	"	1 "	"	"	
	Elements, Radiator, "Hecla" Standard, Cones, wired complete—					
1156	1000 Watt. Rating at 110 Volts	"	20	each	0 4 9	British General Electric Co. Ltd.
1157	1000 " " 230 "	"	100	"	0 4 9	
1158	1000 " " 250 "	"	100	"	0 4 9	
1159	700 " " 110 "	"	20	"	0 4 9	
1160	700 " " 230 "	"	20	"	0 4 9	
1161	700 " " 250 "	"	60	"	0 4 9	

ELECTRIC, POWER AND LIGHTING ACCESSORIES—Continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
	Fuses, Ironclad—					
†1162	15 amp. 500 volt., "T. & H." ...	Vict.	220	each	0 2 5	The Lawrence & Hanson Electrical Co. Ltd.
†1163	30 amp. 500 volt. ...	"	...	"	...	Nil—Item 1162 to be used and gauge of wire adjusted.
†1164	60 amp. 500 volt., "T. & H." ...	"	35	"	0 8 11	British General Electric Co. Ltd.
	Fuses, Factory Type, with bases, back connected, "T. & H."—					
†1165	5 amp., suitable for 250 V. ...	"	1200	doz.	0 9 5.8	Remingtons Pty. Ltd.
†1166	15 amp., suitable for 500 V. ...	"	750	each	0 1 10½	
†1167	30 amp., suitable for 500 V. ...	"	100	"	0 1 10½	
†1168	60 amp., suitable for 500 V., without studs	"	120	"	0 5 5	
	Fuses, Cartridge, "Zed" type.—					
†1169	10 amp., 250 volt. ...	U.K.	80	"	0 0 8½	Siemens (Australia) Pty. Ltd.
†1170	15 amp., 250 volt. ...	"	400	"	0 0 8½	
†1171	25 amp., 500 volt. ...	"	80	"	0 1 3	
†1172	Holders, E.S. batten, "Ring Grip No. 56"	Vict.	175	"	0 1 2½	William Adams & Co. Ltd.
†1173	Holders, E.S., for Benjamin Reflectors, complete with flanges, "Benjamin"	U.K.	100	"	0 6 0	The Lawrence & Hanson Electrical Co. Ltd.
†1174	Hand Lamps, portable, fitted with B.C. holder	Vict.	130	"	0 6 6	Noyes Bros. (Melb.) Pty. Ltd.
†1175	Holders, B.C. Brass Batten ...	U.K.	1400	"	0 0 5½	
†1176	Holders, Bayonet, batten, with shade carrier ring, Bakelite, "Ring Grip"	Vict.	200	doz.	0 9 3	John Danks & Son Pty. Ltd.
†1177	Holders, Bayonet, keyless, with shade ring carrier, ½", "S1035 Magnet" brass	U.K.	350	each	0 0 5.6	British General Electric Co. Ltd.
†1178	Holders, Bayonet, keyless, with shade ring carrier, ¾", "S1037 Magnet" brass	"	1000	"	0 0 5.6	
†1179	Holders, Bayonet, keyless, with shade ring carrier, cord grip, "G.A.C."	"	1400	doz.	0 5 7	Associated General Electric Industries Ltd.
†1180	Holders, Bayonet, keyless, with shade ring carrier, cord grip, Bakelite, "G.E. Ageite"	N.S.W.	600	"	0 6 2	
†1181	Holders, Porcelain, tapped ½" Goliath Screw for Benjamin Reflectors, complete with flanges	U.K.	200	"	0 5 11	Noyes Bros. (Melb.) Pty. Ltd.
	Plugs and Sockets, Wall—					
†1182	2 pin, 5 amp. ...					Nil. To be ordered under item 1184
†1183	2 pin, 10 amp. ...					
†1184	3 pin, earthing, Flatpin, 10 amp. rating, "Ring Grip 54"	Vict.	1050	each	0 1 2½	William Adams & Co. Ltd.
†1185	Plugalls, for Kettles, Bakelite, Metal Sheathed, "Ageite"	N.S.W.	200	doz.	0 6 10	Associated General Electric Industries Ltd.
†1186	Plugs, for D. and S. Connector ...	U.K.	250	each	0 2 10	The Lawrence & Hanson Electrical Co. Ltd.
	Reflectors, Vitreous, Enamelled—					
1187	6½" dia. Benjamin type, No. 8347, "Seyon Atomized Aluminium"	Vict.	60	"	0 3 0	Noyes Bros. (Melb.) Pty. Ltd.
1188	6½" dia. Benjamin, No. 8369	U.K.	60	"	0 5 10	

ELECTRIC, POWER AND LIGHTING ACCESSORIES—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Reflectors, Vitreous, Enamelled—continued				£ s. d.	
1189	12" tapped for $\frac{1}{2}$ " pipe, B.C. Holder, for outdoor use, Benjamin, "Seaflux 2126"	U.K.	15	each	0 12 6	Siemens (Aust.) Pty. Ltd.
1190	14" B.C. Holder, "Benjamin, No. 4362"	"	40	"	0 9 9	
1191	15" E.S. Holder, Benjamin, "Seaflux 2130"	"	70	"	0 17 6	
1192	18" E.S. Holder, Benjamin, "Seaflux 2132"	"	80	"	1 0 0	
1193	Elliptical Angle Type, Benjamin, "Seaflux 2086"	"	10	"	0 18 6	
1194	Reflectors, Enamelled, 12" x $1\frac{1}{8}$ " hole, "Bedd" A100, type "A.G.E. 1"	Aust.	100	"	0 5 3	Associated General Electric Industries Ltd.
1195	Reflectors, Enamelled Iron—10" x $1\frac{1}{8}$ " hole ...	Continental	450	doz.	0 8 9	
†1196	12" x $1\frac{1}{8}$ " hole ...	"	60	"	0 15 9	British General Electric Co. Ltd.
†1197	15" x $1\frac{1}{8}$ " hole ...	"	250	"	1 6 0	
†1198	Reflectors, Shade, Opal, 10" x $1\frac{1}{8}$ " hole ...	Japan	175	each	0 0 6 $\frac{1}{2}$	W. G. Watson & Co Ltd.
†1199	Roses, Ceiling, 2 plate, vitreous porcelain	Germany	700	"	0 0 4	Falk, Stadelmann & Co. Ltd.
†1200	Roses, Ceiling, 3 plate, "Bakelite," "Ring Grip"	Vict.	60	doz.	0 6 11	Siemens (Aust.) Pty. Ltd.
1201	Shades, Opal, enclosed, "Crown Crystal," No. 17 series—10" dia. ...	N.S.W.	70	each	0 6 11	The Lawrence & Hanson Electrical Co. Ltd.
1202	12" dia. ...	"	70	"	0 9 2	
1203	Cover-all Canopy cover Plates and Chains, in bronze finish, for use with Items Nos. 1201 and 1202—4" 2 piece ventilated with ceiling plate and 6 feet chain	Vict.	70	set	0 3 5	Noyes Bros. (Melb.) Pty. Ltd.
1204	6" 2 piece ventilated with ceiling plate and 6 feet chain	"	70	"	0 3 10	
†1205	Switches, Ironclad type, 3 pole "Standard" 15 amp., suitable for 500 V. ...	N.S.W.	20	each	0 6 0	W. G. Watson & Co Ltd.
†1206	30 amp., " " " " ...	"	50	"	0 8 4	
†1207	60 amp., " " " " ...	"	12	"	1 3 7	
†1208	Switches, Ironclad type, Double Pole "Standard"—15 amp., suitable for 500 V. ...	"	40	"	0 4 8	
†1209	30 amp., " " " " ...	"	60	"	0 6 0	
†1210	60 amp., " " " " ...	"	20	"	0 16 11	John Danks & Son Pty. Ltd.
†1211	Switches, Double Pole, Tumbler, 10 amp., suitable for 250 V., "Ring Grip 77"	Vict.	120	doz.	1 17 0	
†1212	Switches, Single Pole, Tumbler—5 amp., 250 Volt, Bakelite, "Ring Grip 92"	"	3000	"	0 9 3	British General Electric Co. Ltd.
†1213	8 amp., 250 Volt, Bakelite, "Magnet S255"	U.K.	250	each	0 1 6 $\frac{1}{2}$	
†1214	Switches, 2 way, 5 amp., 250 Volt, "Ring Grip 93"	Vict.	150	doz.	0 13 7	H. Rowe & Co. Pty. Ltd.
†1215	Switches, Ceiling, 5 amp., 250 Volt "Ring Grip 63"	"	500	"	1 11 9	John Danks & Son Pty. Ltd.
†1216	Switch and Fuse Combination, all insulated (not iron clad), 10 amp., D.P., suitable for use on 250 Volts, "Standard"	N.S.W.	80	each	0 4 8	W. G. Watson & Co. Ltd.
1217-1235	Nil					

LOW VOLTAGE LAMPS AND TORCH ACCESSORIES.

7. As regards Items Nos. 1239, 1261 and 1262, the rate includes Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 40% of the Contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

As regards Items Nos. 1238, and 1240 to 1260, the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 66⅔% of the contract rate shall be to the Corporation's account, to be adjusted on the rate ruling at date of delivery.

As regards Item No. 1237, the contract rate is firm and the Contractor will not be under obligation to supply any quantity in excess of the estimated requirements.

As regards Items Nos. 1258 to 1260, sufficient time to be allowed if required, to meet initial orders.

As regards Items 1236 and 1236a the Chief Electrical Engineer to conduct tests of batteries and submit report. Trial order to be issued on Widdis Diamond Dry Cells Pty. Ltd.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
†1236	Batteries, Torch, dry, cylindrical, single cell "Ever Ready"	N.S.W.	25,000	each	£ s. d. 0 0 2½	Ever Ready Co. (Aust.) Ltd.
†1236a	" " " " "Diamond"	Vict.		"	0 0 2.85	Widdis Diamond Dry Cells Pty. Ltd.
1237	Electrolyte, dry, for Edison Batteries	U.S.A.	10 cwt.	cwt.	22 8 0	F. W. Fisher
†1238	Lamps, Electric, for hand torches—2.5 Volt., Clear "Philips"	U.K.	370	each	0 0 3	Warburton Franki (Melb.) Ltd.
†1239	3.5 Volt., Clear "Ever Ready"	"	5000	"	0 0 2½	Ever Ready Co. (Aust.) Ltd.
†1240	2.5 Volt., focussing type "Philips"	"	700	"	0 0 4	Warburton Franki (Melb.) Ltd.
†1241	3.5 Volt., focussing type "Philips"	"	500	"	0 0 4	
†1242	Lamps, Electric, for Automobiles—6/8 Volts, 2 and 21 C.P., double filament	...	20	...	...	Nil
†1243	6/8 Volts., 2 C.P., D.C. "Mazda"	"	200	each	0 0 7½	Associated General Elec. Indust. Ltd.
†1244	6/8 Volts., 2 C.P., S.C.	"	600	"	0 0 7½	
1245	6/8 Volts., 4 C.P., S.C.	...	20	"	...	Nil (Item 1244 to be used)
†1246	6/8 Volts., 21 C.P., D.C. "Mazda"	"	200	"	0 0 11½	Associated General Elec. Indust. Ltd.
†1247	6/8 Volts., 21 C.P., S.C.	"	175	"	0 0 11½	
†1248	6/8 Volts., 32 and 32 C.P., D.C., double filament "Mazda"	"	80	"	0 1 3	
†1249	6 Volts., 48 to 50 C.P., S.C.	"	175	"	0 0 11½	
†1250	12/16 Volts., 2 C.P., D.C. "Osram"	"	400	"	0 0 7½	British General Elec. Co. Ltd.
†1251	12/16 Volts., 2 C.P., S.C.	"	400	"	0 0 7½	
†1252	12/16 Volts., 6 C.P., D.C.	"	80	"	0 0 7½	
†1253	12/16 Volts., 21 C.P., S.C. "Mazda"	"	300	"	0 0 11½	Associated General Elec. Indust. Ltd.
†1254	12/16 Volts., 21 C.P., D.C.	"	80	"	0 0 11½	
†1255	12/16 Volts., 2 and 21 C.P., D.C., double filament "Mazda"	"	24	"	0 1 1½	
†1256	12/16 Volts., 48 to 50, C.P., D.C.	"	300	"	0 0 11½	
†1257	12/16 Volts., 48 to 50, C.P., S.C.	"	250	"	0 0 11½	Brooks Robinson Pty. Ltd.
†1258	Lamps, Electric, Switchboard, Pencil type—4 Volt "Philips"	"	120	"	0 1 9	
†1259	6 " " "	"	120	"	0 1 9	
†1260	12 " " "	"	120	"	0 1 9	
†1261	Torches, Hand, Electric, with lamp and without cells—"Ever-ready No. 1828," nonfocussing	"	120	"	0 3 6	Ever Ready Co. (Aust.) Ltd.
†1262	"Ever-ready No. 2288," focussing	"	120	"	0 4 3	
1263-1270	Nil					

INSULATORS AND INSULATING MATERIALS.

9. SPECIFICATION FOR PORCELAIN INSULATORS.—*Item No. 1335.*

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 surface, and shall be finished in accordance with the best commercial practice.

The thread shall be in accordance with the drawing referred to, well centred, 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.

10. SPECIFICATION FOR SHEET MICA.—*Item No. 1341.*

General Particulars.—The mica is required for the manufacture and repair of electrical heating appliances in particular, and other electrical apparatus in general.

Quality.—It shall be of the highest grade phlogopite mica, known as clear amber.

Properties of Tests.—(a) **DIELECTRIC STRENGTH**—The dielectric strength determined on sheets approximately 10 mils in thickness shall not be less than 2000 volts per mil.

(b) **HEAT RESISTANCE**—Samples of the mica shall show no signs of deterioration when heated in a furnace at 900 degrees C. for 2 hours.

(c) **LOSS OF WEIGHT**—The loss of weight determined from weighings before and after the heat resistance test shall not exceed 0.5 per cent.

Size and Thickness.—The size of the sheets required is (6) six inches by four (4) inches, and the thickness shall not be less than (20) twenty mils.

Two tenders have been accepted for Insulation Sheet under Items 1309 to 1311. "Excellite" is only to be used for high temperatures, i.e., above 500 deg. C., or heavy current work. For all other purposes "Zelemite" is to be used.

As regards the contract with the British General Electric Co. Ltd. in the event of any alterations in Customs Duty and Primage Duty or in the existing methods of assessing same, the difference will be to the Corporation's account, adjustment to be made in accordance with clause 7 of the conditions of contract.

Sufficient time is to be allowed the British General Electric Co.; if required, to meet initial orders. A statutory declaration is to be furnished by the Corporation that the insulation material supplied is used in the manufacture or repair of electrical apparatus.

As regards Items 1271 to 1307, 1315, 1318 to 1322, 1340 and 1347, the rates include T.T. Exchange between Australia and London at 25½ per cent., and if this rate of Exchange be varied during the Contract period, the difference calculated on 40% of the Contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

INSULATORS AND INSULATING MATERIALS—continued.

As regards Items 1309 to 1312, the rates include T.T. Exchange at 25½ per cent. and 22 Belgas to the £1 sterling, any variations in these rates on the date of delivery to be adjusted on 40 per cent. of the contract rates.

The rates for Items 1318 and 1319 are firm as regards Conversion.

The Contract rates for Items 1308 and 1326 are firm as regards T.T. Exchange, Customs Duty and Primage Duty.

As regards Items 1323, 1324, and 1341 the rates include T.T. Exchange between Australia and London at 25½%, plus 2½%, and if this rate of Exchange be varied during the Contract period, the difference, calculated on 40% of the Contract rates, shall be to the Corporation's account, due allowance being made for the added 2½%, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Ebonite Rod—				£ s. d.	
† 1271	¾" dia. ...	U.K.	5 lin. ft.	lin. ft.	0 0 2	E.C. Menzies Electrical Pty. Ltd.
1272	½" " ...	"	18 "	"	0 0 2½	
† 1273	¾" " ...	"	8 "	"	0 0 6	
1274	1" " ...	"	40 "	"	0 0 10½	
1275	1½" " ...	"	30 "	"	0 1 4½	
	Fibre, Rod, Round, Red, Grey or Black, as ordered—					
1276	½" dia. ...	"	10 lb.	lb.	0 11 4	Mica & Insulating Supplies Co.
1277	¾" " ...	"	3 "	"	0 7 3	
1278	½" " ...	"	18 "	"	0 6 6	
† 1279	¾" " ...	"	12 "	"	0 5 9	
1280	1" " ...	"	12 "	"	0 6 2	
1281	1½" " ...	"	1 "	"	0 9 10	
1282	1½" " ...	"	1 "	"	0 13 11	
1283	2" " ...	"	1 "	"	1 17 6	
	Fibre, Sheet, Red, Grey or Black, as ordered—					
† 1284	⅛" to ¾" thick, as ordered approx. 6' x 4' "Diamond"	"	550 "	"	0 1 5½	British General Electric Co. Ltd.
1285	½" thick ...	"	550 "	"	0 1 9½	Mica & Insulating Supplies Co.
† 1286	¾" " ...	"	50 "	"	0 2 3	
1287	¾" " ...	"	5 "	"	0 2 5	
1288	1" " ...	"	400 "	"	0 2 9	
	Insulation Cloth, Empire (36" wide)—					
† 1289	5 mils. thick in 25 yd. rolls	"	280 yards	lin. yd.	0 1 2½	British General Electric Co. Ltd.
† 1290	7 " " "	"	250 "	"	0 1 4.8	
† 1291	10 " " "	"	20 "	"	0 1 7.8	
† 1292	Insulation compound, "Chattertons"	"	80 lb.	lb.	0 1 10.4	

INSULATORS AND INSULATING MATERIALS—continued.

Item No.	Description	Country of Manufro	Estimated Requirements	Rate per	Rate	Name of Contractor
	Insulation, "Elephantide," in rolls, 50" to 54" wide—				£ s. d.	
1293	5 mils, Grade "B" ...	U.K.	8 lb.	lb.	0 1 5½	Mica & Insulating Supplies Co.
1294	5 mils, Grade 3 ...	"	40 "	"	0 1 6½	
1295	5 mils, Grade 4 ...	"	6 "	"	0 1 6½	
1296	10 mils, Grade "B" ...	"	70 "	"	0 1 2½	
1297	10 mils, Grade 3 ...	"	70 "	"	0 1 4	
1298	10 mils, Grade 4 ...	"	20 "	"	0 1 6½	
1299	15 mils, Grade "B," in rolls 50" to 54" wide	"	6 "	"	0 1 1½	
1300	15 mils, Grade 3 ...	"	70 "	"	0 1 2½	
1301	15 mils, Grade 4 ...	"	80 "	"	0 1 5	
1302	20 mils, Grade "B" ...	"	6 "	"	0 1 1½	
1303	20 mils, Grade 3 ...	"	100 "	"	0 1 2½	British General Electric Co. Ltd.
1304	20 mils, Grade 4 ...	"	70 "	"	0 1 4½	
1305	30 mils, Grade "B," in sheets 6' x 3'	"	15 sheets	sheet	0 4 0	
1306	30 mils, Grade 3, in sheets 6' x 3'	"	175 "	"	0 4 3	
1307	30 mils, Grade 4, in sheets 6' x 3'	"	40 "	"	0 4 8	Johnson & Phillips Ltd.
†1308	Insulation, presspahn, in sheets, 32" x 24", 10 mils.	"	20 "	lb.	0 1 0	
	Insulation, Sheet, Ebony, grade—"					
†1309	½" thick (6 m.m.) 47" x 49" "Excellite"	Belguim	80 sq. ft.	sq. ft.	0 2 8½	The Lawrence & Hanson Electrical Co. Ltd.
†1309A	½" thick (6 m.m.) "Zelemite"	S. Aust.		"	0 2 10	
†1310	¾" ,, (10 m.m.) 47" x 49" "Excellite"	Belguim	100 "	"	0 3 3½	The Lawrence & Hanson Electrical Co. Ltd.
†1310A	¾" ,, (10 m.m.) "Zelemite"	S. Aust.		"	0 3 3	
†1311	½" ,, (12 m.m.) 47" x 49" "Excellite"	Belguim	175 "	"	0 4 5½	The Lawrence & Hanson Electrical Co. Ltd.
†1311A	½" ,, (12 m.m.) "Zelemite"	S. Aust.		"	0 4 4	
†1312	¾" ,, (20 m.m.) 47" x 49" "Excellite"	Belguim	600 "	"	0 5 3½	The Lawrence & Hanson Electrical Co. Ltd.
	Insulation, Sheet, Grey, "Zelemite"—					
†1313	½" thick ...	S. Aust.	50 lb.	"	0 1 11	British General Electric Co. Ltd.
†1314	⅝" " ...	"	50 "	"	0 2 2	
†1315	Insulation, Tape, adhesive, black, ½" in 2 oz. rolls	U.K.	900 "	lb.	0 1 3.1	Associated General Electric Industries Ltd.
†1316	Insulation, Tape, adhesive, black, ¾" in 8 oz. rolls wrapped in tin foil, 23½ yds approx.	Vict. (partly)	2000 "	"	0 1 4	Dunlop Perdriau Rubber Co. Ltd.
†1317	Insulation, Tape, adhesive, grey, ¾" in 8 oz. rolls, nett weight, wrapped in tin foil,	"	400 "	"	0 2 1½	Barnet Glass Rubber Co. Ltd.

INSULATORS AND INSULATING MATERIALS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
†1318	Insulation, Tape, Empire, bias cut, in Yellow or Black— ½" wide, 5 mils, seamed	U.S.A.	2 grs. yds.	gross yds.	0 2 6	British General Electric Co. Ltd.
†1319	¾" wide, 7 mils., seamed	"	60 "	"	0 4 8	
†1320	¾" wide, 7 mils., seamless	U.K.	130 "	"	0 5 1	Mica & Insulating Supplies Co.
†1321	1" wide, 7 mils., seamed	"	2 "	"	0 6 10	
†1322	1" wide, 7 mils., seamless	"	25 "	"	0 6 10	W. G. Sleightholm
†1323	1" wide, 15 mils., seamed	"	18 "	"	0 10 6	
†1324	2" wide, 7 mils., seamed	"	20 "	"	0 13 6	W. G. Sleightholm
†1325	Insulation, Tape, Mica Flexible, 1½" x 4 mils.	Aust.	30,000 yds.	100 yds	0 8 6	
†1326	Insulation, Tape, Rubber, pure, ½" wide, in ½ lb. cartons	U.K.	25 lb.	lb.	0 3 4	W. T. Henley's Telegraph Works Co. Ltd.
*1327	Insulators, Porcelain— Base, for Traction Motor connection box, to Drawing No. F. 2105	Vict.	850	each	0 2 3	Sunshine Porcelain Potteries Pty. Ltd.
*1328	Brush Yoke, to Drawing No. F. 2104	"	80	"	0 2 1	Aust. Porcelain Insulator Co. Pty. Ltd.
†*1329	Button, 1½" x 1½" x ¾" hole	"	10,000	"	0 0 1½	Sunshine Porcelain Potteries Pty. Ltd.
†*1330	Cleat, 2½" x 1" (two wires) pairs	"	1200	"	0 0 3	Australian Porcelain Insulator Co. Pty. Ltd.
†*1331	Knob, 2½" x 1½" x 7/16" hole	"	800	"	0 0 5	
†*1332	Pin Type, 6,600 volt, grooved top, brown	"	40	"	0 2 1	British General Electric Co. Ltd.
†1333	Pin Type, conference No. 600/0-1	"	80	"	0 0 6½	
†1334	Pin Type, conference No. 600/0-0	"	250	"	0 0 5½	Nil
†1335	Pin Type, to Specification and Drawing A. 405, No. 1	"	15,000	"	"	
†*1336	Reel	"	500	each	0 0 6	Aust. Porcelain Insulator Co. Pty. Ltd.
†*1337	Shackle, 1½" x 2½" x ¾" hole	"	800	"	0 0 4½	
†*1338	Shackle, large, 4" dia. x 3" high x ¾" hole	"	700	"	0 1 0	Mica & Insulating Supplies Co.
†1339	Strain "Egg type," 1000 V., 3½" long	"	36	"	0 1 3½	
*1340	Tube, Ballsok, 1" dia. x 12" long x ¾" hole	U.K.	250	"	0 1 4½	W. G. Sleightholm
†1341	Mica, Sheet, 6" x 4", Phlogopite, clear amber, to Specification	"	80 lb.	lb.	1 8 6	
†1342	Mica, Sheet, Clear, 6" x 4" (cut to size)	Aust.	50 "	"	0 17 6	E. C. Menzies Electrical Pty. Ltd.
†1343	Mica, Sheet, 8" x 4½" (cut to size), Indian Ruby	"	30 "	"	1 4 0	
†1344	Mica, Sheet, Aust. spotted, 4" x 4" (cut to size)	"	15 "	"	0 9 3	W. G. Sleightholm
†*1345	Mica Washers, 1½" outside dia. x 15/16" hole (outside edges to be polished)	"	300 "	"	0 6 4	Mica & Insulating Supplies Co.
†*1346	Mica Washers, 2½" outside dia. x 7/8" hole (outside edges to be polished)	"	500 "	"	0 7 6	
†1347	Micanite Sheet, Flexible, 40" x 40" x 7 mils.	"	50 "	"	0 4 0	W. G. Sleightholm
*1348	Micanite Tube, 2½" x 2½", 17" long	"	1750	each	0 0 11	
1349-1357	—Nil					

LIQUID DISINFECTANTS.

7. The Disinfectant to be supplied under Items 1379 and 1380 shall have a Rideal Walker Coefficient of not less than 5.

8. A 1% emulsion of the disinfectant on standing for 24 hours shall show no unsaponified oil on the surface, and also no appreciable sediment at the bottom.

9. When supplied in drums, each drum shall have an outlet on the end of the drum to facilitate discharge.

The rates for Items 1379 and 1380 are based on 7d. per gal. for Tar Oil, and the Contract rates shall be increased or decreased by $\frac{1}{4}$ d. per gal. for every variation of 1d. per gal. in the buying price of Tar Oil. The Contractor will be under obligation to supply up to 600 gals. (if ordered) before the amended rates operate.

Documentary evidence of the alteration of the market price of Tar Oil to be submitted to the Comptroller of Stores.

Item No.	Description	Country of Manufre	Estimated Requirements	Rate per	Rate	Name of Contractor
	Disinfectant, Liquid, to be supplied in good sound containers—				£ s. d.	
† 1379	Low Grade, in 40/44 gallon returnable drums	Vict. (partly)	4000 gals.	Imp. gal.	0 1 4	A. B. Gibson & Sons Pty. Ltd.
† 1380	Low Grade, in 4 gal. tins ...	"	2000 "	"	0 1 5½	
† 1381	Oil, Disinfectant, for use in Urinals, in 4-gallon tins "Pynex"	Vict.	700 "	"	0 1 4	
† 1382	Deodorising Fluid, for Lavatory Cars, in 40/44 gal. returnable drums "Gibsonia"	Vict. (partly)	600 "	"	0 3 6	
1383	Nil					

CANDLES, MOLASSES, SOAP, ETC.

SPECIFICATION FOR SOFT SOAP—Item No. 1393.

The soft soap supplied under this contract shall be of the best quality and description, and shall contain not less than 40% 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 twenty-four hours no liquid must separate from it. It shall contain not more than three-tenths of 1% of free caustic alkali.

Any fish oil or marine animal oil used in the manufacture of the soap must be deodorised, 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.

A sample shall be taken from each delivery or part thereof of soft soap delivered under this contract, and such sample on analysis shall agree in all respects with this Specification, and shall be similar to the accepted sample in color, textures, and in all other respects not defined in the Specification.

SPECIFICATION FOR SPECIAL AND COMMON YELLOW SOAP.—Items Nos. 1396 and 1397.

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, and 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, and 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.

A sample shall be taken from each delivery or part thereof of special and common yellow soap delivered under this contract, and such sample on analysis shall agree in all respects with this specification and shall be similar to the accepted sample in color, texture and in all other respects not defined in the specification.

Item 1395A is to be ordered for requirements of Chalet, Mt. Buffalo.

CANDLES, MOLASSES, SOAP, ETC.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Candles, Stearine, full weight or short chamber, as ordered—"Electrine"				£ s. d.	
†1384	In 1 lb. packets, 6's ...	Victoria	200 lb.	lb.	0 0 8½	J. Kitchen & Sons Pty. Ltd.
†1385	In 1 lb. packets, 12's ...	"	1600 "	"	0 0 8½	
†1386	In 50 lb. or 100 lb. containers, 12's ...	"	2750 "	"	0 0 8½	
†1387	Glycerine, pure, in 4 gal. tins "Apollo"	"	250 "	"	0 0 7	Nil
1388	Molasses, in 40-gallon drums, supplied by Corporation at Spencer-street Receiving Depot	"	10 tons	...	...
†1389	Soap, Liquid Cleanser, in 4-gallon tins, for use in floor scrubbing "Carbolocide"	Victoria (partly)	175 gals.	gal.	0 1 6	A. B. Gibson & Sons Pty. Ltd.
†1390	Soap, Powdered, in ½-lb. or 1-lb. packets, as ordered	Victoria	12,000 lb.	lb.	0 0 5½	J. Kitchen & Sons Pty. Ltd.
†1391	Soap, Sand, in boxes of 72 x 14 oz. bars, wrapped "Cameo"	N.S.W.	300 boxes	box	0 8 9	Australian Soaps Ltd
†1392	Soap, "Solvol," 6 oz. wrapped	Vict.	5000 cakes	doz.	0 3 0	J. Kitchen & Sons Pty. Ltd.
†1393	Soap, Soft, to specification, in casks 3 to 4 cwt. "Kitchen's"	"	600 cwt.	cwt.	1 3 9	
†1394	Soap, Toilet, in cakes, wrapped "Buttermilk"	"	700 lb.	lb.	0 0 5	Arthur Tilley
†1395	Soap, Toilet, in ½ oz. tablets, double-wrapped, perfumed "Violeties de Parme" (car equipment, etc.)	"	...	gross	0 5 0	
†1395A	Soap, Toilet, in ½ oz. tablets, double-wrapped, perfumed, "Bouquet of Roses" (for Chalet, Mt. Buffalo)	"	250 gross	"	0 5 0	J. Kitchen & Sons Pty. Ltd.
†1396	Soap Special, Yellow, in bars, in boxes of approximately 1 cwt., to specification, unwrapped "Prize Medal"	"	25 cwt.	cwt.	1 1 0	
†1397	Soap, Common, Yellow, in bars, in boxes, of approximately 1 cwt., unwrapped, to specification "Prize Medal"	"	600 "	"	1 1 0	
†1398	Soda Crystals, Washing, in bags		350 "	"	0 6 6	H. Segal
†1399	Tapers, Wax, thick, 22" long "Prices Patent Candle Co."	U.K.	100 lb.	lb.	0 2 0	Edward Duckett & Sons
1400-1402	—Nil.					

CHEMICALS, ETC.

7. SPECIFICATION OF ACID, SULPHURIC, FOR STORAGE BATTERIES.—

Items Nos. 1418 to 1426.

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

8. SPECIFICATION FOR CALCIUM CARBIDE.—Items Nos. 1433 to 1434B.

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 delivered under this contract shall be tested for purity when it shall contain over 99 per cent. by volume of acetylene gas (C₂H₂), and moreover, when further tested for phosphine gas (PH₃), shall contain not more than 0.05 per cent. by volume thereof.

The Carbide supplied under Items Nos. 1433 to 1433B shall be in lumps of the size known as 50/80 millimetres, and not less than 95 per cent. of the carbide shall be of that size.

The Carbide supplied under Items Nos. 1434 to 1434B shall be granulated of the size known as 7/15 millimetres, and not less than 95 per cent. of the Carbide shall be of that size.

CHEMICALS, ETC.—continued.

9. SPECIFICATION FOR MURIATE OF AMMONIA.—*Item No. 1440.*

General Description.—The material required under Item 1440 is Crystallised Ammonium Chloride (commonly termed Sal-Ammoniac or Muriate of Ammonia) containing not less than 99 per cent. NH_4Cl .

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 centimeters of distilled water at 20 deg. 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 per cent.
- (d) Lead, copper, and other metals. 10 cubic centimetres of 10 per cent. solution of 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 2 cwt. The kegs or cases shall 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.

10. **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.

11. SPECIFICATION FOR ORANGE SHELLAC.—*Item No. 1445.*

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

12. **Acids.**—The Specific Gravity at 60 deg. F. of the acids shall be as shown hereunder :—

Item. No.	Acid	Specific Gravity at 60 deg. F.
1407	Hydrochloric	Not less than 1.1725
1408-1411	Muriatic	Not less than 1.166
1412-1413	Nitric	Not less than 1.400
1414	Nitric C.P.	Not less than 1.400
1416-1417	Sulphuric	Not less than 1.820
1418-1421	Sulphuric for Batteries	From 1.100 to 1.215
1422-1425	Sulphuric for Batteries	From 1.216 to 1.400
1426	Sulphuric C.P.	Not less than 1.840

13. SPECIFICATION FOR CAUSTIC SODA FOR SODA CELLS.—*Item No. 1450.*

The Caustic Soda shall be supplied in powdered form in tins, each tin containing sufficient Soda for one renewal— $36\frac{1}{2}$ ozs. plus or minus 1 oz.

The Caustic Soda shall contain not less than 98 per cent. of sodium hydrate; not more than 1 per cent. of carbonate; and not more than 0.5% of Sulphates and Chlorides.

Tins shall be of robust construction, to prevent damage to contents during transportation and storage, and shall be hermetically sealed.

As regards items 1418 to 1425, 7s. for jars and 7s. each for crates will be charged and credited if returned in good order and condition to the Contractor's works free of cost within 3 months.

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.

Each Jar of Battery Acid contains from 3 to $3\frac{1}{2}$ gallons, and it is preferable that either weight or gallons be ordered rather than jars, which vary somewhat in size.

CHEMICALS, ETC.—continued.

It should be noted that the Commonwealth Fertilizers and Chemicals Ltd. refused to sign a contract for Items 1418 to 1425, and the arrangement may be terminated by the Corporation at any time should it so desire. Rates cover delivery to Shelter Shed, North Melbourne, for any quantity including 12 jars or more in one delivery, smaller lots being charged cartage extra, at Master Carriers' Association rates.

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.—Item Nos. 1412, 1416, 1426,
Bottles at 2s. 3d. each.—1404, 1405, 1429.
Bottles at 2s. 6d. each.—1408.
Bottles at 4s. each.—Item Nos. 1407, 1414, 1428.
Jars at 7s. each and crates at 7s. each.—Items Nos. 1418 to 1425 (see above).
Jars at 7s. each.—1409–1411, 1413, 1417, 1439.
7–9 cwt. drums £10 each.—Item 1448.
Other drums, £1 each.—Item 1448.

As regards item 1446, a charge will be made for containers if other than brown paper bags and allowed on return in good order.

As regards Items 1433 to 1434B, rates are for delivery at Receiving Depot, but exclusive of stevedoring and wharfage, and sufficient time is to be allowed for importation to enable Bill of Lading to be made out in favour of Victorian Railways Commissioners so that wharfage may be cleared by Corporation. Storehouse Manager and Shipping Clerk to arrange.

Provided that satisfactory service be given, the business is to be equally divided between the three contractors.

As regards Items 1403, 1406, 1430–1432, 1435, 1440, 1441, 1443–1445, and 1451, the rates include Telegraphic Transfer Exchange between Australia and London at 25½ per cent. and if this rate of Exchange be varied during the Contract period, the difference calculated on 50 per cent., of the Contract rate shall be to the Corporation's account, and shall apply to any store that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

Rates for Items 1403, 1443–1445 are firm as regards conversion.

*As regards Item 1448, payment is to be made on basis of £9 2s. 6d. per ton of 4·13 per cent. NaOH, any variation in this percentage as result of analysis of each delivery to be adjusted on pro rata basis.

Items 1433–1434B—Name of Manufacturer—The Australian Commonwealth Carbide Co. Ltd.

†As regards item 1415, rate is subject to 3½% discount for payment within 7 days of delivery and rate is firm for conversion and exchange.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
1403	Acetone, in bottles ...	Germany	5 lb.	lb.	£ s. d. 0 1 6	Felton, Grimwade and Duerdins Ltd.
1404	Acetic, chemically pure, glacial, in Winchester.	Vict.	15 "	"	0 3 3	
1405	Dipping, Jewellers, in Winchester.	"	175 "	"	0 1 9	
1406	Gallic ...	U.K.	110 "	"	0 3 9	
1407	Hydrochloric, chemically pure, in Winchester quarts ...	Vict.	550 "	"	0 1 5	Henry H. York and Co. Pty. Ltd.
1408	Muriatic, Hydrochloric, or Spirits of Salts, as ordered— In Winchester quarts...	"	20 cwt.	cwt.	1 5 0	W. and G. Dean Pty. Ltd.
1409	In lots of 6 jars or less	"	5 "	"	1 4 0	
1410	In lots of 7 to 18 jars	"	25 "	"	1 3 0	
1411	In lots over 18 jars ...	"	150 "	"	1 3 0	

CHEMICALS, ETC.—continued.

Item No.	Description	Country of Manufre	Estimated Requirements	Rate per	Rate	Name of Contractor
	Nitric—				£ s. d.	
1412	In Winchester quarts ...	Vict.	150 lb.	lb.	0 0 10	Henry H. York and Co. Pty. Ltd.
1413	In lots of 6 jars or less ...	"	850 "	"	0 0 7½	
1414	Chemically pure, in Winchester quarts	"	300 "	"	0 1 8	
1415	Oxalic, in 1 cwt. Kegs or Bags ...	Japan	10,000 "	"	10 0 9	Shoppee Winning and Co.
	Sulphuric—					
1416	In Winchester quarts ...	Vict.	175 "	"	0 0 2	Henry H. York and Co. Pty. Ltd.
1417	In lots of 6 jars or less ...	"	1800 "	cwt.	0 9 0	
	Sulphuric, for Storage Batteries, delivered ex Contractors' Works to Shelter Shed, North Melbourne, in 3-gallon jars—					
1418	S.G. 1·100 to 1·215— In lots of 6 to 18 jars ...	"	30 tons	lb.	0 0 1½	Commonwealth Fertilisers and Chemicals Ltd.
1419	In lots of 19 to 35 jars ...	"		"	0 0 1½	
1420	In lots of 36 to 51 jars ...	"		ton	14 10 0	
1421	In lots of 52 jars and over ...	"		"	12 0 0	
1422	S.G. 1·216 to 1·400— In lots of 6 to 18 jars ...	"		lb.	0 0 2¼	
1423	In lots of 19 to 35 jars ...	"		"	0 0 1½	
1424	In lots of 36 to 51 jars ...	"		ton	15 10 0	
1425	In lots of 52 jars and over ...	"		"	12 10 0	
1426	Sulphuric, chemically pure, in ½-gallon stoppered bottles, each containing 9 lb	"	360 lb	lb.	0 1 5	Henry H. York and Co. Pty. Ltd.
1427	Aluminium Sulphate (Ice Works) ...	"	112 "	"	0 0 2	Hardie Trading Pty. Ltd.
	Ammonia, Liquid, 890 S.G.—					
1428	In Winchester quarts ...	"	900 "	"	0 0 8	H. B. Selby and Co. Pty. Ltd.
1429	Chemically pure, in Winchester quarts	"	6 qts.	Win. quart	0 4 0	Felton Grimwade and Duerdins Ltd.
1430	Beakers, Pyrex Squat, 600 ccs. ...	U.K.	3 doz.	dozen	1 7 0	
1431	Borax, Lump, in 1 cwt. bags ...	"	4000 lb.	lb.	0 0 2½	W. and G. Dean Pty. Ltd.
1432	Borax, Powdered, in 1 cwt. bags ...	"		"	0 0 2½	
1433	Calcium, Carbide, Lump, in about 2-cwt. drums, 50/80, "I.X.L."	Tasmania	120 tons	ton	26 4 0 ex wharfage and landing charges	Thos. Mitchell and Co. Pty. Ltd.
1433A	Calcium, Carbide, Lump, in about 2-cwt. drums, 50/80, "I.X.L."	"		"	26 4 0 ex wharfage and landing charges	Allen - Liversidge (Australia) Ltd.
1433B	Calcium, Carbide, Lump, in about 2-cwt. drums, 50/80, "I.X.L."	"		"	26 4 0 ex wharfage and landing charges	Noyes Bros. (Melb.) Pty. Ltd.

† Less 3¼%—7 days.

CHEMICALS, ETC.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
1434	Calcium, Carbide, Granulated, in 2-cwt. drums, 7/15, "I.X.L."	Tasmania	18 tons	ton	26 4 0 ex wharfage and landing charges	Thos. Mitchell and Co. Pty. Ltd.
1434A	Calcium, Carbide, Granulated, in 2-cwt. drums, 7/15, "I.X.L."	"		"	26 4 0 ex wharfage and landing charges	Allen - Liversidge (Australia) Ltd.
1434B	Calcium Carbide, Granulated, in 2-cwt. drums, 7/15, "I.X.L."	"		"	26 4 0 ex wharfage and landing charges	Noyes Bros. (Melb.) Pty. Ltd.
1435	Calcium Chloride, 70/75% in 600 lb. drums (Ice Works)	U.K.	5 "	"	8 8 0	Brunner Mond and Co. (Australia) Pty. Ltd.
1436	Carbon, Bi-Sulph., in 5 gal. drums of 64 lb. in crates Carbon, Tetra Chloride, S.G. 1.6—	Vict.	2000 gals.	drum 64 lb. nett	1 14 6	Henry H. York and Co. Pty. Ltd.
1437	In 40 gal. drums ...	"	12 cwt.	lb.	0 0 10	
1438	In 5 gal. drums ...	"	70 "	"	0 0 10	
1439	Formalin, Liquid, in 3 gal. jars ...	U.K.	1200 lb.	"	0 0 7½	Brunner Mond and Co. (Australia) Pty. Ltd.
†1440	Muriate of Ammonia, 99/100% (Sal Ammoniac) No. 1 Fine, in 2 cwt. kegs		25 cwt.	ton	31 1 0	
1441	Muriate of Ammonia, 99/100% (Sal Ammoniac) Lump, in 1 cwt. kegs		5 "	"	60 9 0	
1442	Salt, Common White, fine, for Casehardening		30 "	...	...	Nil
1443	Shellac, Brown, in cases of 165 lb. ...	India	600 lb.	lb.	0 1 8	Robert Bryce and Co. Pty. Ltd.
1444	Shellac, Button, for French Polishing, in cases of 165 lbs.	"	350 "	"	0 1 8	
1445	Shellac, Orange ...	"	450 "	"	0 1 7½	Felton Grimwade and Duerdins Ltd.
1446	Silver, Nitrate of, Crystal, in paper bags...	Vict.	25 "	oz.	0 1 11	Kodak (Australia) Pty. Ltd.
†1447	Soda, Caustic, Lump, minimum 94 per cent. NaOH, in drums	"	30 tons	ton	26 0 0	Commonwealth Fertilisers and Chemicals Ltd.
†1448	Soda, Caustic, Liquid, 41.3 per cent. NaOH, in drums of 16 or 10 to the ton, or 7/9 cwt. each	"	20 "	"	*9 2 6	
†1449	Soda, Caustic, Powdered, 1-lb. tins, 98/99 per cent., NaOH, in case lots	Vict. (partly)	1750 tins	doz. tins	0 6 9	
1450	Soda, Caustic, Powdered, for Soda Cells, to Specification, in tins of 36½ ounces, plus or minus 1 oz.	"	3500 "	tin	0 2 0½	Associated General Electric Industries Ltd.
1451	Sodium, Bi-Carbonate ...	U.K.	440 lb.	lb.	0 0 2	Hardie Trading Pty. Ltd.
1452	Sulphur, Flowers of ...	Vict. (partly)	250 "	"	0 0 2	H. B. Selby & Co. Pty. Ltd.
1453	Tri-Sodium, Phosphate (for Electro-Platers use)	Vict.	250 "	"	0 0 4½	Henry H. York & Co. Pty. Ltd.
1454	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. (partly)	1500	each	0 1 3	Felton Grimwade & Duerdins Ltd.
1455	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	"	350	"	0 1 3	
1456-1458	—Nil					

COPPER PRODUCTS

(See Appendix "E" for Specification).

With the exception of Items 1459 to 1486, and 1504, 1508a 1509, the rates include wharfage,—and in the event of the material requiring to be imported after receipt of an order, and if the quantity involved is sufficient to warrant action being taken, it is desired that the material be consigned to the Comptroller of Stores of the Victorian Railways Department in order that the benefit of free wharfage may be obtained. Officers ordering to arrange accordingly.

Wharfage will be cleared by the Corporation and the Delivery Order returned to the Contractor to complete delivery. The amount involved will be deducted from the Contractor's invoice.

Delivery.—Items Nos. 1459 to 1503, 1505 to 1507 and 1509, at the Metropolitan Receiving Depot, Spencer-street.

Items Nos. 1504, 1508 and 1508a at the Corporation's Jolimont Workshops Store, Batman-avenue, Melbourne, and the weights as ascertained at the time of delivery at these depots shall be accepted.

† As regards Items 1459 to 1486 and 1509, the rates do not include wharfage and are based on the price of £45 per ton, which is the equivalent in Australian currency 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 20s. or part thereof by which the price in Australian currency of wire bars on the date of receipt of order is greater than £45/19/11d., or less than £45 per ton respectively.

The equivalent in Australian currency of the London Metal Exchange price for Electrolytic Copper Wire Bars is the London Metal Exchange rate for E.C. Wire bars as issued by the Australian Mines and Metals Association, plus the percentage as is quoted by the Commonwealth Bank as their buying rate for T.T. on London.

If on any day no price of wire bars is published or if no T.T. Exchange rate is quoted, the rates last issue shall apply in either or both cases.

In the case of a dispute concerning the published buying rate, for telegraphic transfer on London, the figures advised by the Commonwealth Bank as last published by them prior to the day of receipt of the order, shall be mutually accepted.

Extras for small quantities.—Items 1459–1486 and 1509.

		Weight per lineal foot in lbs.					
Weight of each Item.		under 0.10	0.10 and under 0.25	0.25 and under 0.5	0.5 and under 1.5	1.5 and under 5.0	5.0 and over.
		Extra in pence per lb.					
Under 20 lb.	...	2.5	4.0	6.0	9.0	12.0	16.0
20 lbs. and under 50 lb.	...	1.5	2.0	3.0	4.5	8.0	12.0
50 lbs. and under 100 lb.	...	0.7	1.0	1.5	2.0	4.0	8.0
100 lbs. and under 200 lb.	...	Nil	0.5	0.7	1.0	2.0	4.0
200 lbs. and under 500 lb.	...	Nil	Nil	Nil	0.5	0.7	1.0

Orders will be subject to confirmation before acceptance with the reservation that in the event of an increased rate being required, the Corporation may determine the contract in so far as the item in question is concerned, if it so desires.

Orders under 3 cwt. will be packed and delivered with orders over 3 cwt. If separate delivery of orders under 3 cwt. be required, packing and forwarding charges will be extra to Corporation's account.

Delivery.—Five to six weeks shall be allowed for delivery.

† As regards Items 1488 to 1501 and 1508 (Austral Bronze Co. Ltd.) the rates are based on Electrolytic Copper Wire Bars at £35 per ton, plus T.T. Exchange at 25% which is the Australian equivalent price of E.C. Wire bars and are subject to the corresponding variation in the Australian equivalent price of Electrolytic Copper Wire bars according to the London metal quotations as published in the *Argus* on date of receipt of order and the buying rate for T.T. on London.

If on any day no price of wire bars is published, or if no Telegraphic Transfer Exchange rate is quoted, the rates last issued shall apply in either or both cases.

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 from London Metal Exchange prior to the date of acceptance of order shall be mutually accepted. Similarly in the event of a dispute concerning the Telegraphic Transfer Exchange rate, the figures advised by the Commonwealth Bank as last published by them prior to date of receipt of order shall apply.

COPPER PRODUCTS—continued.

† As regards Items 1502 and 1503, the rates are based on £45 per ton, which is the Australian equivalent of the London price for Electrolytic Copper Wire Bars published in the *Argus* and are to be varied 1/10th of a penny per lb. of sheets for each complete 20s. or part thereof per ton by which the Australian equivalent price published in the *Argus* on the date of receipt of order is greater than £45 per ton or less than £45 per ton respectively. If on any day no price of wire bars is published, the price last published shall apply. If no buying rate is quoted by the Commonwealth Bank for T.T. on London on any day, the rate last published shall apply.

† As regards Items 1505 to 1507, the rates are based on £44/13/9d. per ton, which is the equivalent in Australian currency for Electrolytic Copper Wire Bars, and are to be varied up or down by 1/10th of a penny per lb. of copper for each complete 20s. or part thereof by which the price in Australian currency of wire bars published on the date of receipt of order is greater than £44/19/11d. or less than £44 per ton respectively. Same stipulations and adjustments in this regard apply as shown for Items 1459 to 1486, and 1509 above.

Rates quoted are for orders of not less than three standard coils of approximately 130 lb. each at one time. Orders for quantities of less than three coils will be charged ½d. per lb. extra.

Delivery.—One month from receipt of order.

† As regards Items 1504 and 1508a the rates are based on Electrolytic Copper Wire Bars at a minimum of £40 per ton. Any rise in the price of Electrolytic Copper Wire Bars above £40 per ton, as published in the *Argus* on that date of receipt of order, will be added to the contract rates.

As regards the Contract with the Austral Bronze Co., should there be any variation in the N.S.W. State basic wage from £3/8/6d. per week during the Contract period, the Contract rates, with the exception of that for Item 1487, shall be varied in accordance therewith at the rate of 4s. 6d. per ton for every 1s. per week increase or decrease in the basic wage, the amended rates to apply to all incomplete orders at the date of such amendment.

The rate for Item 1487 is firm as regards E.C.W. bars and wages.

As regards Items 1508 and 1508a 75% of requirements should be ordered on Austral Bronze Co. and 25% on Brass Co. of Australia. Estimated requirements have been amended accordingly.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
1459	Copper Tubing, Solid Drawn, in 14' to 18' lengths, "Metal Manufactures Pty. Ltd." 20 S.W. gauge, 3/16" outside diameter	N.S.W.	2 cwt.	lb.	†0 1 11	Knox, Schlapp & Co.
1460	18 " 5/8" " " " " " "	"	15 "	"	†0 1 5	
1461	16 " 1/2" " " " " " "	"	1 "	"	†0 1 5.9	
1462	16 " 5/16" " " " " " "	"	1 "	"	†0 1 5.9	
1463	16 " 3/8" " " " " " "	"	10 "	"	†0 1 4.5	
1464	16 " 1/2" " " " " " "	"	12 "	"	†0 1 4.2	
1465	14 " 1/2" " " " " " "	"	20 "	"	†0 1 3.6	
1466	14 " 5/8" " " " " " "	"	20 "	"	†0 1 2.9	
1467	14 " 3/4" " " " " " "	"	18 "	"	†0 1 2.9	
1468	14 " 1 1/2" " " " " " "	"	1 "	"	†0 1 1.5	
1469	12 " 1" " " " " " "	"	70 "	"	†0 1 1.8	
1470	12 " 1 1/4" " " " " " "	"	40 "	"	†0 1 1.1	
1471	12 " 1 1/2" " " " " " "	"	12 "	"	†0 1 0.9	
1472	10 " 1 1/2" " " " " " "	"	25 "	"	†0 1 0.9	
1473	10 " 1 3/4" " " " " " "	"	50 "	"	†0 1 0.9	
1474	10 " 2" " " " " " "	"	15 "	"	†0 1 0.9	

COPPER PRODUCTS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Copper Tubing, Solid Drawn, in 14' to 18' lengths, "Metal Manufactures Pty. Ltd."—continued				£ s. d.	
1475	10 S.W. gauge, 2½" outside diameter	N.S.W.	15 lb.	lb.	†0 1 0.9	Knox, Schlapp & Co.
1476	10 " 2½" "	"	1 "	"	†0 1 0.9	
1477	8 " 1" "	"	25 "	"	†0 1 2.3	
1478	¾" 4" "	"	1 "	"	†0 1 0.9	
1479	¾" 5¼" "	"	60 "	"	†0 1 1.4	
1480	¾" 5½" "	"	80 "	"	†0 1 1.4	
1481	¾" 3½" "	"	1 "	"	†0 1 0.9	
1482	¾" 4½" "	"	1 "	"	†0 1 1.4	
1483	¾" 5½" "	"	1 "	"	†0 1 1.4	
1484	¾" 6" "	"	5 "	"	†0 1 1.4	
1485	¾" 6½" "	"	5 "	"	†0 1 1.8	
1486	¾" 4½" "	"	200 "	"	0 1 1.4	Austral Bronze Co. Ltd.
1487	Copper Phosphor, 15 per cent., "Austral Bronze"	"	25 "	"	0 1 3½	
1488	Copper Rod, Electrolytic—Austral Bronze ¾" diameter	"	25 "	"	†0 0 10¼	
1489	¾" " " " " "	"	"	"	†0 0 10¼	
1490	¾" " " " " "	"	20 "	"	†0 0 10¼	
1491	¾" " " " " "	"	80 "	"	†0 0 10¼	
1492	¾" " " " " "	"	400 "	"	†0 0 10¼	
1493	¾" " " " " "	"	3500 "	"	†0 0 10¼	
1494	Copper Rod for Loco. Fire Boxes—Rolled—Austral Bronze—¾" diameter	"	1 ton	ton	†89 5 0	
1495	1" " " " " "	"	40 "	"	†89 5 0	
1496	1-1/16" " " " " "	"	10 "	"	†89 5 0	
1497	1½" " " " " "	"	3 "	"	†89 5 0	Geo. White & Co. Pty. Ltd.
1498	1-3/16" " " " " "	"	20 cwt.	"	†89 5 0	
1499	1¼" " " " " "	"	5 "	"	†89 5 0	
1500	1½" " " " " "	"	10 "	"	†89 5 0	
1501	1½" " " " " "	"	3 "	"	†89 5 0	
1502	Copper Sheet, best hard rolled, Nos. 10 to 34 Birmingham Sheet Gauges, "Austral Bronze," in any of the following trade sizes and gauges as ordered— 10 to 26 gauge 8' x 4', 8' x 3', 6' x 4', 6' x 3', 6' x 2', 6' x 2½', 4' x 2'. 27 to 30 gauge, 6' x 2', 6' x 1½', 4' x 2'. 31 to 34 gauge, in strips not over 12" in width	"	25 "	lb.	†0 1 3½	
1503	Copper Sheet, best soft rolled, Nos. 10 to 34 Birmingham Sheet Gauge, "Austral Bronze," any size and gauge ordered, as shown for Item 1502	"	70 "	"	†0 1 2½	
*1504	Copper Angle for contactor tips, "Brass Co."	Vict.	1200 lb.	"	†0 0 11½	Extruded Metals Pty. Ltd.
1505	Copper Strip, Hard Drawn, No. 10 S.W.G., 2½" wide, to be supplied in standard coils of 130 lb., "Metal Manufactures Pty. Ltd."	N.S.W.	360 feet	"	†0 1 2	British Insulated Cables Ltd.

COPPER PRODUCTS—continued.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
1506	Copper Strip, Hard Drawn, No. 10 S.W.G., 1½" wide, to be supplied in standard coils of 130 lb. or in straight lengths of not less than 12 feet, "Metal Manufactures Pty. Ltd."	N.S.W.	2000 feet	lb.	†0 1 0	British Insulated Cables Ltd.
1507	Copper Strip, Half Moon, to Drawing No. 1131, manufactured from new material, and in coils of approx. 80 to 112 lb., "Metal Manufactures Pty. Ltd."	"	4000 "	"	†0 1 10	
1508	Copper Strip, for Pantographs, to Specification, "Austral Bronze"	"	18,750 lb.	"	†0 0 11	Austral Bronze Co. Ltd.
1508A	Copper Strip, for Pantographs, to Specification.	Vict.	6250 lb.	"	†0 0 11½	Extruded Metals Pty. Ltd.
1509	Copper Tube, Seamless, 1.143" internal dia., 13 S.W.G. (to Specification), "Metal Manufactures Pty. Ltd."	N.S.W.	6000 feet	"	†0 1 1.8	Knox, Schlapp & Co.
1510-1512	Nil					

METALS.—ALUMINIUM, ANTIMONY, BRASS, LEAD AND ZINC.

(See Appendix "F" for Specification).

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. 1515 to 1568 (Austral Bronze Co. Ltd.), the rates are based on Electrolytic Copper Bars Wire at over £25 to £35 per ton and will vary by 2s. 4d. per cwt. when the published price of Electrolytic Copper Wire Bars in the Argus newspaper on the date of receipt of order by the Contractor, is over £35 to £45, and a further 2s. 4d. per cwt. for every £5 or part per ton additional increase in the published price at such date.

† As regards Items Nos. 1604 to 1617, the rates are based on Electrolytic Copper Wire Bars at £45 per ton which is the Australian equivalent of the London Metal Exchange price for Electrolytic Copper Wire Bars, and will vary up or down by one-tenth of a penny per lb., for each complete £1 or part thereof by which the Australian equivalent price of Wire Bars published in the Argus newspaper on the date of receipt of an order is greater than £45 per ton or less than £45 per ton. If on any day no price of Wire Bars is published the price last published shall apply. If no buying rate is quoted by the Commonwealth Bank for T.T. on London on any day, the rate last published shall apply.

† The Lead (Item No. 1618) shall be paid for at the latest cabled London market *spot* price for pig lead quoted in the Melbourne morning daily newspapers at date of receipt of the order (unless, in the judgment of the Comptroller of Stores, the price quoted as aforesaid does not correctly represent the *spot* market price for pig lead prevailing on the day of the date of such cabled market *spot* price) plus £4 per ton, always provided that if, in the judgment of the Comptroller of Stores, the cabled market *spot* price quoted as aforesaid in the Melbourne morning daily newspapers, or any of them, does not correctly represent the market price for pig lead prevailing on the day of the date of such cabled market price, then the market 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 referred to on the particular order shall be in accordance with the price so determined by the Comptroller of Stores, plus £4 per ton. The rate is based on 25½% Telegraphic Transfer between Australia and London, any variation at the date of receipt of order to Corporations account and shall only apply to the London cable *spot* price referred to.

† The Lead (Item No. 1620) shall be paid for at the published daily official price of the Aust. Mines and Metals Association for *spot* pig lead, on the date of receipt of order, plus £13 per ton.

† The Zinc (Item No. 1624) shall be paid for at the mean of the *spot* and forward prices of spelter on the London market as published in the "Argus" on the date of receipt of order, plus £8 per ton.

The rates for Items No. 1625 and 1626 are firm.

As regards the contract with the Austral Bronze Co. Ltd. should there be any variation in the N.S.W. State basic wage from £3 8s. 6d. per week during the contract period, the contract rates shall be varied in accordance therewith at the rate of 4s. 6d. per ton for every 1s. per week increase or decrease in the basic wage, the amended rates to apply to all incomplete orders at the date of such amendment, and it shall be the obligation of the Contractor within the meaning of clause 21 of the conditions of contract to advise the Comptroller of Stores of such alteration.

METALS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
†1513	Aluminium, Ingot	15 cwt.	...	£ s. d.	} Nil
†1514	Antimony, Ingot, Regulus of, 99·5 per cent. pure	...	500 „	...	...
BRASS.						
Brass, Rod, Hexagon, in 6' to 8' lengths, Whitworth Standard—"Austral Bronze"						
1515	min. 0·187" max. 0·190" width across flats ...	N.S.W.	} 400 „	cwt.	†3 14 8	} Austral Bronze Co. Ltd.
1516	0·250" 0·253" „ „ „ „ „	„		„	†3 14 8	
1517	0·334" 0·338" „ „ „ „ for 1/8" nuts	„		„	†2 18 4	
1518	0·440" 0·445" „ „ „ „ 3/16" „	„		„	†2 18 4	
1519	0·498" 0·502" „ „ „ „ 1/4" R.S.A. special nuts	„		„	†2 18 4	
1520	0·520" 0·525" width across flats for 1/4" „	„		„	†2 18 4	
1521	0·595" 0·600" „ „ „ „ 5/16" „	„		„	†2 18 4	
1522	0·705" 0·710" „ „ „ „ 3/8" „	„		„	†2 18 4	
1523	0·750" 0·755" „ „ „ „ „	„		„	†2 18 4	
1524	0·815" 0·820" width across flats for 7/16" nuts	„		„	†2 18 4	
1525	0·915" 0·920" „ „ „ „ 1/2" „	„		„	†2 18 4	
1526	1·002" 1·010" „ „ „ „ 9/16" „	„		„	†2 18 4	
1527	1·092" 1·100" „ „ „ „ 5/8" „	„		„	†2 18 4	
1528	1·192" 1·200" „ „ „ „ 11/16" „	„		„	†2 18 4	
1529	1·292" 1·300" „ „ „ „ 3/4" „	„		„	†2 18 4	
1530	1·382" 1·390" „ „ „ „ 13/16" „	„		„	†2 18 4	
1531	1·468" 1·480" „ „ „ „ 7/8" „	„		„	†2 18 4	
1532	1·658" 1·670" „ „ „ „ 1" „	„		„	†2 18 4	
1533	1·845" 1·860" „ „ „ „ 1 1/8" „	„		„	†2 18 4	
1534	2·035" 2·050" „ „ „ „ 1 1/4" „	„		„	†2 18 4	
1535	2·200" 2·220" „ „ „ „ 1 3/8" „	„		„	†2 18 4	
1536	2·390" 2·410" „ „ „ „ 1 1/2" „	„		„	†2 18 4	
1537	2·555" 2·580" „ „ „ „ 1 5/8" „	„		„	†2 18 4	
1538	2·735" 2·760" „ „ „ „ 1 3/4" „	„		„	†2 18 4	
Brass, Rod, Round, in 6' to 8' lengths for general use, or drop forgings, as ordered—"Austral Bronze"						
1539	1/8" diameter	„	} See next page	„	†3 18 4	
1540	3/16" „ „ „ „	„		„	†3 10 0	
1541	1/4" „ „ „ „	„		„	†2 18 4	
1542	5/16" „ „ „ „	„		„	†2 18 4	
1543	3/8" „ „ „ „	„		„	†2 18 4	

METALS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Brass, Rod, Round, in 6' to 8' lengths "Austral Bronze"—continued				£ s. d.	
1544	$\frac{7}{16}$ " diameter ...	N.S.W.		cwt.	†2 18 4	
1545	$\frac{1}{2}$ " " ...	"		"	†2 18 4	
1546	$\frac{9}{16}$ " " ...	"		"	†2 18 4	
1547	$\frac{5}{8}$ " " ...	"		"	†2 18 4	
1548	$\frac{11}{16}$ " " ...	"		"	†2 18 4	
1549	$\frac{3}{4}$ " " ...	"		"	†2 18 4	
1550	$\frac{13}{16}$ " " ...	"		"	†2 18 4	
1551	$\frac{7}{8}$ " " ...	"		"	†2 18 4	
1552	$\frac{15}{16}$ " " ...	"		"	†2 18 4	
1553	1" " ...	"		"	†2 18 4	
1554	$1\frac{1}{8}$ " " ...	"		"	†2 18 4	
1555	$1\frac{3}{8}$ " " ...	"		"	†2 18 4	
1556	$1\frac{1}{2}$ " " ...	"	175 cwt.	"	†2 18 4	Austral Bronze Co. Ltd.
1557	$1\frac{3}{8}$ " " ...	"		"	†2 18 4	
1558	$1\frac{1}{2}$ " " ...	"		"	†2 18 4	
1559	$1\frac{3}{8}$ " " ...	"		"	†2 18 4	
1560	$1\frac{1}{2}$ " " ...	"		"	†2 18 4	
1561	$1\frac{3}{8}$ " " ...	"		"	†2 18 4	
1562	2" " ...	"		"	†2 18 4	
1563	$2\frac{1}{4}$ " " ...	"		"	†2 18 4	
1564	$2\frac{1}{2}$ " " ...	"		"	†2 18 4	
1565	$2\frac{3}{8}$ " " ...	"		"	†2 18 4	
1566	$2\frac{1}{2}$ " " ...	"		"	†2 18 4	
1567	3" " ...	"		"	†2 18 4	
1568	Brass Rod, Square, in 6' to 8' lengths— 1" square ...	"	1 "	"	†2 18 4	
	Brass Sheet, hard rolled, as specified— "Defence Dept.—Ammunition Factory"					
1569	6' x 2' x 30 B. gauge ...	Vict.		lb.	0 1 3	Noyes Bros. (Melb) Pty. Ltd.
1570	6' x 2' x 28 B. gauge ...	"		"	0 1 2	
1571	6' x 2' x 26 B. gauge ...	"		"	0 1 0 $\frac{3}{4}$	
1572	6' x 2' x 24 B. gauge ...	"		"	0 1 0 $\frac{1}{2}$	
1573	6' x 2' x 22 B. gauge ...	"		"	0 1 0	
1574	6' x 2' x 20 or 18 B. gauge ...	"	See next page	"	0 0 11 $\frac{1}{2}$	
1575	6' x 2' x 16, 14 or 12 B. gauge ...	"		"	0 0 11 $\frac{1}{2}$	

METALS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Brass, Sheet, hard rolled, as specified— continued				£ s. d.	
1576	6' x 2' x 10 B. gauge ...	Vict.	30 cwt.	lb.	0 0 11½	Noyes Bros. (Melb.) Pty. Ltd.
1577	6' x 2' x any of the following thicknesses as ordered:— $\frac{3}{16}$ ", $\frac{1}{4}$ ", or $\frac{5}{16}$ "	"		"	0 1 3	
1578	6' x 3' x 24 B. gauge ...	"		"	0 1 1½	
1579	6' x 3' x 20 or 18 B. gauge ...	"		"	0 1 0½	
1580	6' x 3' x 16, 14 or 12 B. gauge ...	"		"	0 1 0½	
1581	6' x 3' x 10 B. gauge ...	"		"	0 1 0½	
1582	4' x 2' x 30 B. gauge ...	"		"	0 1 3	
1583	4' x 2' x 28 B. gauge ...	"		"	0 1 2	
1584	4' x 2' x 26 B. gauge ...	"		"	0 1 0½	
1585	4' x 2' x 24 B. gauge ...	"		"	0 1 0½	
1586	4' x 2' x 22 B. gauge ...	"		"	0 1 0	
1587	4' x 2' x 20 or 18, B. gauge ...	"		"	0 0 11½	
1588	4' x 2' x 16, 14 or 12 B. gauge ...	"		"	0 0 11½	
1589	4' x 2' x 10 B. gauge ...	"		"	0 0 11½	
	Brass, Sheet, annealed as specified— "Defence Dept. Ammunition Factory"					
1590	6' or 4' x 2' x 30 B. gauge ...	"	14 "	"	0 1 3	Geo. White & Co. Pty. Ltd.
1591	6' or 4' x 2' x 28 B. gauge ...	"		"	0 1 2	
1592	6' or 4' x 2' x 26 B. gauge ...	"		"	0 1 0½	
1593	6' or 4' x 2' x 24 B. gauge ...	"		"	0 1 0½	
1594	6' or 4' x 2' x 22 B. gauge ...	"		"	0 1 0	
1595	6' or 4' x 2' x 20 or 18 B. gauge ...	"		"	0 0 11½	
1596	6' or 4' x 2' x 16, 14 or 12 B. gauge ...	"		"	0 0 11½	
1597	6' or 4' x 2' x 10, 9 or 8 B. gauge ...	"		"	0 0 11½	
1598	6' x 2' x $\frac{3}{16}$ " or $\frac{1}{4}$ " thick ...	"		"	0 1 3	
1599	4' x 1' x $\frac{1}{2}$ ", $\frac{3}{4}$ ", $\frac{1}{2}$ ", $\frac{3}{8}$ " or 1" ...	"		"	0 1 3	
1600	6' x 3' x 22 B. gauge ...	"	See next page	"	0 1 1	Geo. White & Co. Pty. Ltd.
1601	6' x 3' x 20 or 18 B. gauge ...	"		"	0 1 0½	
1602	6' x 3' x 16, 14 or 12 B. gauge ...	"		"	0 1 0½	
1603	6' x 3' x 10 B. gauge ...	"		"	0 1 0½	
	Brass Tubing (except Boiler Tubes), solid drawn, any length ordered—"Metal Manufactures Ltd."					
1604	$\frac{1}{4}$ " outside diameter x 26, 24, 22, 18 or 16 S.W. gauges, as ordered	N.S.W.		"	† 0 2 4	
1605	$\frac{5}{16}$ " outside diameter x 24, 20, 18 or 16 S.W. gauges, as ordered	"		"	† 0 2 4	
1606	$\frac{3}{8}$ " outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		"	† 0 1 11½	
1607	$\frac{7}{16}$ " outside diameter x 20, 18, 16 or 14 S.W. gauges, as ordered	"		"	† 0 1 11½	

METALS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Brass Tubing (except Boiler Tubes), solid drawn, any length ordered—"Metal Manufactures Ltd."—continued—				£ s. d.	
1608	½" outside diameter x 20, 18, 16, 14 or 10 S.W. gauges, as ordered	N.S.W.		lb.	† 0 1 10½	Geo. White & Co. Pty. Ltd.
1609	9/16" outside diameter x 20, 18 or 16 S.W. gauges, as ordered	"		"	† 0 1 10½	
1610	⅝" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		"	† 0 1 9½	
1611	¾" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		"	† 0 1 8	
1612	13/16" outside diameter x 22, 16 or 10 S.W. gauges, as ordered	"	1500 lb.	"	† 0 1 8	
1613	7/8" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		"	† 0 1 9	
1614	1" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		"	† 0 1 8	
1615	1 1/8" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		"	† 0 1 8	
1616	1 1/4" outside diameter x 20, 18, 16, 14, 12 or 10 S.W. gauges, as ordered	"		"	† 0 1 8	
1617	1 1/2" outside diameter x 20, 18, 16, 14, 12, or 10 S.W. gauges, as ordered	"		"	† 0 1 8	
	LEAD.				Spot market price plus	
†1618	Lead, Pig, soft (remelted) ...	Vict.	20 tons	ton	† 4 0 0	The Moreland Metal Co. Ltd. Walter Coop
†1619	Lead, Pig, soft, produced from new material	S.A.	3 "	"	17 0 0	
					Nett Spot Pig Lead market price plus	
†1620	Lead, Sheet, any thicknesses ordered, and cut to any sizes ordered Antimonial Lead Strip, extruded, in rolls, to Specification—"J. McIlwraith & Co. Pty. Ltd.	Vict.	8. "	"	† 13 0 0	John Danks & Son Pty. Ltd.
1621	2" wide x 125" thick ...	"	28 cwt.	cwt.	1 15 0	John McIlwraith & Co. Pty. Ltd.
1622	2" wide x 06" thick ...	"	28 "	"	2 0 0	
1623	1 9/16" wide x 06" thick ...	"	9 "	"	2 2 6	
					Mean of spot & forward market price of spelter, plus	
1624	Zinc, Electrolytic, 99.9 per cent. "Electrolytic Zinc Coy."	Tas.	75 "	ton	† 8 0 0	Briscoe & Co. Ltd.
†1625	Zinc, Sheet, Perforated, 84 holes to the square inch, each hole 0.085" diameter, No. 6 Zinc Gauge (0.011"), in sheets 7' 0" x 3' 0" or 8' 0" x 3' 0", as ordered	U.K.	50 sq. ft.	sq. ft.	0 0 2. Nett	Edward Duckett & Sons
†1626	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"), 20 Zinc Gauge (0.070"), as ordered, by any size ordered "Veille Montagne"	Belgium	5 cwt.	cwt.	2 6 0	

1627-1630 Nil

TAPS, DIES AND CHASERS

SPECIFICATION FOR TAPS—*Items Nos. 1631 to 1707.*

9. **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 *Items* 1631 to 1666 shall be Standard Whitworth Hand Taps.

The Taps set opposite *Items* 1667 to 1675 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* 1676 to 1684 shall be Whitworth thread and shall be suitable for use with a National Nut Tapping Machine, and shall be in accordance with the particulars shown on V.R. Drawing No. 8920·1.

The Taps set opposite *Items* 1685 to 1690 shall be suitable for use with a National Nut Tapping Machine, and shall be in accordance with the particulars shown on V.R. Drawing No. 8920·2.

The Taps set opposite *Items* 1691 to 1703 shall be Standard Whitworth Taps, suitable for use with Horizontal Tapping Machines. *Items* 1691 to 1693 and 1699 to 1701 shall be in accordance with V.R. Drawing No. 8920·1. *Items* 1694 to 1698 and 1702 to 1703 shall be in accordance with V.R. Drawing No. 8920·3.

The Taps set opposite *Items* 1704 to 1707 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 1631 to 1675 and 1704 to 1707—Minus, Nil. Plus, 0·003 in. of the diam.

Items 1676 to 1684, 1691 to 1693 and 1699 to 1701, as shown on V.R. Drawing No. 8920·1. *Items* 1685 to 1690 as shown on V.R. Drawing No. 8920·2.

Items 1694 to 1698 and 1702 to 1703 as shown on V.R. Drawing 8920·3.

Items 1691 to 1706—Minus, Nil. Plus, 0·003 in. of the diam.

Pitch—*Items* 1631 to 1707. No Tap shall be more than 0·0005 in. 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* 1708 to 1713 shall be Whitworth Standard, made from best cast steel hardened and tempered ready for use.

The DIES set opposite *Items* 1723 to 1728 shall be made from high speed steel, and shall be suitable for efficient use in "Landis" Rotary Dieheads.

The DIES under *Items* 1729 to 1732 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 *Item* 1735 shall be made from Carbon Steel, and shall be in accordance with the particulars shown in V.R. Drawing, No. 309N.

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

Names of Manufacturers

McPherson's Pty. Ltd.—Patience & Nicholson Ltd.

Hardware Co. of Aust. Pty. Ltd.—Patience & Nicholson Ltd.

Green Bros. & Miller Pty. Ltd.—Green Bros. & Miller Pty. Ltd.

The Sutton Tool and Gauge Manufacturing Co. Pty. Ltd.—The Sutton Tool and Gauge Manufacturing Co. Pty. Ltd.

The Eagle & Globe Steel Co. Ltd.—Patience & Nicholson Ltd.

TAPS, DIES AND CHASERS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
1631	Taps, Whitworth Thread— $\frac{1}{8}$ " Taper ...	Vict. (partly)	100	each	£ s. d. ††0 0 4½	McPherson's Pty. Ltd.
1632	$\frac{3}{16}$ " " ...	"	250	"	††0 0 4½	
1633	$\frac{7}{32}$ " " ...	"	5	"	††0 0 4½	
1634	$\frac{1}{4}$ " " ...	"	200	"	††0 0 4½	
1635	$\frac{5}{16}$ " " ...	"	80	"	††0 0 7	
1636	$\frac{3}{8}$ " " ...	"	100	"	† 0 0 10	Green Bros. and Miller Pty. Ltd.
1637	$\frac{1}{2}$ " " ...	"	50	"	0 1 3	The Eagle & Globe Steel Co. Ltd.
1638	$\frac{5}{8}$ " " ...	"	70	"	0 1 7½	
1639	$\frac{3}{4}$ " Taper ...	"	25	"	0 2 2	Hardware Co. of Aust. Pty. Ltd.
1640	$\frac{7}{8}$ " " ...	"	10	"	0 2 10½	The Eagle & Globe Steel Co. Ltd.
1641	1" " ...	"	15	"	0 3 4	Hardware Co. of Aust. Pty. Ltd.
1642	1½" " ...	"	5	"	0 6 2	The Eagle & Globe Steel Co. Ltd.
1643	$\frac{1}{8}$ " Intermediate ...	"	80	"	††0 0 4½	McPherson's Pty. Ltd.
1644	$\frac{3}{16}$ " " ...	"	150	"	††0 0 4½	
1645	$\frac{7}{32}$ " " ...	"	5	"	††0 0 4½	
1646	$\frac{1}{4}$ " " ...	"	180	"	††0 0 4½	
1647	$\frac{5}{16}$ " " ...	"	100	"	††0 0 7	
1648	$\frac{3}{8}$ " " ...	"	100	"	† 0 0 10	Green Bros. & Miller Pty. Ltd.
1649	$\frac{1}{2}$ " " ...	"	40	"	0 1 3	The Eagle & Globe Steel Co. Ltd.
1650	$\frac{5}{8}$ " " ...	"	80	"	0 1 7½	
1651	$\frac{3}{4}$ " " ...	"	20	"	0 2 2	Hardware Co. of Aust. Pty. Ltd.
1652	$\frac{7}{8}$ " " ...	"	30	"	0 2 10½	The Eagle & Globe Steel Co. Ltd.
1653	1" " ...	"	20	"	0 3 4	Hardware Co. of Aust. Pty. Ltd.
1654	1½" " ...	"	5	"	0 6 2	The Eagle & Globe Steel Co. Ltd.
1655	$\frac{1}{8}$ " Plug ...	"	120	"	††0 0 4½	McPherson's Pty. Ltd.
1656	$\frac{3}{16}$ " " ...	"	175	"	††0 0 4½	
1657	$\frac{7}{32}$ " " ...	"	5	"	††0 0 4½	
1658	$\frac{1}{4}$ " " ...	"	250	"	††0 0 4½	
1659	$\frac{5}{16}$ " " ...	"	120	"	††0 0 7	
1660	$\frac{3}{8}$ " " ...	"	170	"	† 0 0 10	Green Bros. & Miller Pty. Ltd.
1661	$\frac{1}{2}$ " " ...	"	40	"	0 1 3	The Eagle & Globe Steel Co. Ltd.
1662	$\frac{5}{8}$ " " ...	"	60	"	0 1 7½	
1663	$\frac{3}{4}$ " " ...	"	30	"	0 2 2	Hardware Co. of Aust. Pty. Ltd.
1664	$\frac{7}{8}$ " " ...	"	10	"	0 2 10½	The Eagle & Globe Steel Co. Ltd.
1665	1" " ...	"	20	"	0 3 4	Hardware Co. of Aust. Pty. Ltd.
1666	1½" " ...	"	5	"	0 6 2	The Eagle and Globe Steel Co. Ltd.
1667	Taps, Hand-working, Gas Thread— $\frac{1}{8}$ " two to set ...	"	10 sets	set	0 2 6	
1668	$\frac{1}{4}$ " " " ...	"	10	"	0 3 0	Green Bros. & Miller Pty. Ltd.
1669	$\frac{3}{8}$ " " " ...	"	10	"	†0 4 0	
1670	$\frac{1}{2}$ " " " ...	"	2	"	†0 5 3	The Eagle & Globe Steel Co. Ltd.
1671	$\frac{3}{4}$ " " " ...	"	2	"	0 7 2	

† Rates—Less 5%.

†† Rates—Plus 10%.

TAPS, DIES AND CHASERS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Taps, Hand-working, Gas Thread—continued—				£ s. d.	
1672	1" two to set ...	Vict. (partly)	2 sets	set	10 10 0	Green Bros. & Miller Pty. Ltd. Hardware Co. of Aust. Pty. Ltd.
1673	1½" " " " ...	"	2 "	"	10 16 0	
1674	1½" " " " ...	"	1 "	"	10 17 6	
1675	1½" " " " ...	"	1 "	"	1 4 6	
	Taps for "National" Nut-tapping Machines, to Drawing No. 8920·1, Whitworth Thread—					
1676	½" ...	"	5	each	10 5 0	Green Bros. & Miller Pty. Ltd. The Eagle & Globe Steel Co. Ltd.
1677	¾" ...	"	5	"	0 5 1½	
1678	¾" ...	"	40	"	0 5 5	
1679	¾" ...	"	70	"	10 8 6	
1680	1" ...	"	220	"	10 10 3	Green Bros. & Miller Pty. Ltd. The Eagle & Globe Steel Co. Ltd.
1681	1½" ...	"	5	"	10 13 3	
1682	1½" ...	"	10	"	10 16 6	
1683	1½" ...	"	2	"	10 19 3	
1684	1½" ...	"	2	"	1 1 6	The Eagle & Globe Steel Co. Ltd. Green Bros. & Miller Pty. Ltd.
	Taps for "National" Nut-tapping Machines, to V.R. Drawing No. 8920·2—					
1685	1", 11 Threads per Inch ...	"	2	"	10 10 6	
1686	1½", 11 " " " ...	"	15	"	10 13 3	
1687	1½", 11 " " " ...	"	2	"	0 13 3	The Eagle & Globe Steel Co. Ltd. Green Bros. & Miller Pty. Ltd.
1688	1½", 11 " " " ...	"	25	"	10 16 6	
1689	1½", 11 " " " ...	"	2	"	0 16 3	
1690	1½", 11 " " " ...	"	10	"	0 19 0	
	Taps, Horizontal Tapping Machines, Right-hand, Whitworth Thread—					
1691	1½" to V.R. Drawing No. 8920·1	"	2	"	0 10 3	The Eagle & Globe Steel Co. Ltd.
1692	1½" " " " " "	"	2	"	0 13 0	
1693	1½" " " " " "	"	2	"	0 19 0	
1694	1½" " " " 8920·3	"	5	"	1 5 8	
1695	2" " " " " "	"	2	"	1 18 0	Green Bros. & Miller Pty. Ltd.
1696	2½" " " " " "	"	2	"	2 4 0	
1697	2½" " " " " "	"	2	"	2 13 0	
1698	2½" " " " " "	"	2	"	3 2 0	
	Taps, Horizontal Tapping Machines, Left-hand, Whitworth Thread—					
1699	1½" to V.R. Drawing No. 8920·1	"	1	"	0 12 6	The Eagle & Goble Steel Co. Ltd.
1700	1½" " " " " "	"	1	"	0 16 6	
1701	1½" " " " " "	"	1	"	1 5 6	
1702	1½" " " " 8920·3	"	1	"	1 13 6	
1703	2" " " " " "	"	1	"	2 3 6	

† Rates—Less 5%.

TAPS, DIES AND CHASERS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
1704	Taps, 2 B.A. ...	Vict. (partly)	2	each	£0 0 6	McPherson's Pty. Ltd.
1705	Taps, 4 B.A. ...	"	2	"	£0 0 6	
1706	Taps, 8 B.A. ...	"	10	"	£0 0 7	
1707	Dies, 6 B.A. ...	"	1	"	0 0 8	The Sutton Tool & Gauge Manufg. Co. Pty. Ltd.
	Dies, Nut, Hexagon, Whitworth Thread—					
1708	$\frac{3}{8}$ " ...	"	6	"	0 2 1	The Eagle & Globe Steel Co. Ltd.
1709	$\frac{1}{2}$ " ...	"	6	"	0 2 3	
1710	$\frac{5}{8}$ " ...	"	6	"	0 3 1	
1711	$\frac{3}{4}$ " ...	"	6	"	0 3 4	
1712	$\frac{7}{8}$ " ...	"	6	"	0 3 11	
1713	1" ...	"	6	"	0 4 4	
	Dies, Adjustable, $2\frac{3}{16}$ " diameter, Whitworth Thread (Excluding Guides)—					
1714	$\frac{3}{16}$ " ...	"	2	"	£0 5 9	Green Bros. and Miller Pty. Ltd.
1715	$\frac{1}{4}$ " ...	"	5	"	£0 5 9	
1716	$\frac{5}{16}$ " ...	"	2	"	£0 5 9	
1717	$\frac{3}{8}$ " ...	"	6	"	£0 5 9	
1718	$\frac{1}{2}$ " ...	"	15	"	£0 6 3	
1719	$\frac{5}{8}$ " ...	"	15	"	£0 7 6	
1720	$\frac{3}{4}$ " ...	"	10	"	0 7 11	The Eagle & Globe Steel Co. Ltd.
1721	$\frac{7}{8}$ " ...	"	10	"	0 9 4	
1722	1" ...	"	10	"	0 10 9	
	Dies, "Landis," Style "F," Whitworth Thread, in sets of four—					
1723	$\frac{1}{2}$ " to $\frac{5}{8}$ ", as ordered ...	"	15 sets	set	2 0 0	Green Bros. & Miller Pty. Ltd.
1724	$\frac{3}{4}$ " to $1\frac{1}{2}$ ", as ordered ...	"	80	"	2 0 0	
	Dies "Landis," Style "F," for 3" Diehead Whitworth Thread, in sets of four—					
1725	$1\frac{1}{4}$ " ...	"	5	"	3 2 6	The Eagle & Globe Steel Co. Ltd.
1726	$2\frac{1}{4}$ " ...	"	2	"	3 2 6	
1727	Dies, "Landis," Pipe, 14 thread, Whitworth for $1\frac{1}{4}$ " Diehead, in sets of four	"	2	"	2 1 6	The Eagle & Globe Steel Co. Ltd.
1728	Dies, "Landis," Pipe, 11 threads, Whitworth for 1" to 2" Pipes, in sets of four	"	2	"	2 1 6	
	Dies, "Herbert," to suit Herbert's Die Heads, in sets of four—					
1729	1", style "C," sizes $\frac{3}{16}$ " to 1" for 1" Diehead, as ordered, Whitworth Thread	"	40	"	1 4 6	The Eagle & Globe Steel Co. Ltd.
1730	$1\frac{1}{4}$ ", style "C," sizes $\frac{7}{16}$ " to $1\frac{1}{4}$ ", as ordered, Whitworth Thread	"	30	"	1 11 0	

†† Rates Plus 10%

† Rates Less 5%

TAPS, DIES AND CHASERS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Dies, "Herbert," to suit Herbert's Die Heads, in sets of four—continued—				£ s. d.	
1731	1½", Style "C," sizes 1½", 1¼", 1⅜" and 1½", as ordered, 11 threads per inch	Vict. (partly)	3 sets	set	1 16 0	The Sutton Tool & Gauge Manufg. Co. Pty. Ltd.
1732	2", style, "C," sizes 1½", 1¼", 1⅜", 1½" and 1½", as ordered, 11 threads per inch	"	10 "	"	2 11 6	The Eagle & Globe Steel Co. Ltd.
1733	Dies, Tangential, to V.R. Drawing No. N.Z. 7, amended 12/4/34 for "Kendall and Gent" Machine (screw couplings), in sets of four	"	12 "	"	3 10 0	Green Bros. & Miller Pty. Ltd.
1734	Dies, Tangential, for 1½" "Landmatic" Die Head in sets of 4, sets to be interchangeable with each other, to Blue Print N.X.9	"	15 "	"	2 5 0	
1735	Chasers, Machine, Outside, to Drawing No. 309N— 10 to 14 threads per inch, as ordered	"	50	each	0 3 2	The Eagle & Globe Steel Co. Ltd.
	Dies, Hand, Brass, 26 threads per inch (Whitworth)					
1736	¼" x 1 ⅝" outside diam. ...	"	2	"	0 3 9	The Sutton Tool & Gauge Manufg. Co. Pty. Ltd.
1737	⅝" x 1 ⅝" outside diam. ...	"	2	"	0 3 9	
1738	¾" x 1 ⅝" outside diam. ...	"	2	"	0 3 9	
1739	⅞" x 1 ⅝" outside diam. ...	"	2	"	0 3 9	
1740	1" x 1 ⅝" outside diam. ...	"	2	"	0 3 9	
	Reamers, Spiral, with chip breaker, to Drawing No. NX-1					
1741	⅞" diameter ...	"	50	"	0 16 3	The Sutton Tool & Gauge Manufg. Co. Pty. Ltd.
1742	1" diameter ...	"	120	"	1 0 9	
1743	1 ⅛" diameter ...	"	40	"	1 2 3	
1744	1748—Nil					

ELECTRODES AND WELDING WIRE

7. The Ordinary Grade Electrodes (*Items* 1749 to 1753 inclusive) and Structural Grade Electrodes (*Items* 1758 to 1763 inclusive), shall be in accordance with Australian Standard Specification No. A-18-1933. *Items* 1758 to 1763 inclusive shall, in addition to the above, be capable of being hot forged. The High tensile steel wire for oxy-acetylene welding (*Items* 1776-1778 inclusive) shall be in accordance with Australian Standard Specification No. B 29/1931.

All other Electrodes and Welding Wire shown opposite the various items in the Schedule, shall be capable of depositing the material specified in connection with welding. The material shall be made by an approved process, and shall be of uniform homogeneous structure, free from segregations, oxides, pipes, seams, etc., 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.

Iron and Steel welding wires shall be dipped or otherwise coloured as may be decided by the Corporation for identification purposes.

As regards *Items* Nos. 1772 and 1773, the rates are subject to variation to the extent of any rise or fall in "Ryland's" current prices for Wire, and shall apply to the undelivered portion of orders, the Contractor to be under obligation to advise the Comptroller of Stores of any such alteration.

As regards *Items* Nos. 1783 to 1785, the rates are based on E.C. Wire bars between £35 and £40 per ton and will be subject to an increase of ½d. per lb. for any increase above £39 19 11 per ton for wire bars for every £5 per ton or part thereof. A similar reduction in Contract rate will apply if price of E.C. Wire bars falls below £35 per ton.

As regards *Items* Nos. 1754 to 1755A, and 1767 to 1769A the tender of the Austn. Oxygen & Indust. Gases Pty. Ltd. has also been accepted for "E.M.F." Electrodes at lower rates than "Quasi Arc".

No orders are to be issued for "Quasi Arc" Electrodes, *Items* Nos. 1754 & 1755, unless personally authorised by the Chief Electrical Engineer.

As regards *Items* 1767-1769, "E.M.F." Electrodes have been accepted for experimental purposes only. Orders may be issued for "Quasi Arc" Electrodes under these items pending satisfactory results from "E.M.F." Electrodes.

ELECTRODES AND WELDING WIRE—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Electrodes, Ordinary Grade "EMF. Weld Rod"—				£ s. d.	
†1749	No. 6 S.W.G. ...	Vict.	250 ft.	100 ft.	0 8 0	Aust. Oxygen & Indust. Gases Pty. Ltd.
1750	No. 8 " ...	"	1,200,000 "	"	0 6 0	
†1751	No. 10 " ...	"	140,000 "	"	0 4 6	
1752	No. 12 " ...	"	6000 "	"	0 4 3	
1753	No. 14 " ...	"	500 "	"	0 4 0	
†1754	Electrodes, Mild Steel, Special— No. 8 S W G "Quasi Arc" ...	Vict. (partly)	120,000 "	"	0 7 9	Robert Bryce & Co. Pty. Ltd.
†1754A	No. 8 " "EMF Weld Rod" ...	Vict.		"	0 6 0	Aust. Oxygen & Indust. Gases Pty. Ltd.
†1755	No. 10 " "Quasi Arc" ...	Vict. (partly)	50,000 "	"	0 6 3	Robert Bryce & Co. Pty. Ltd.
†1755A	No. 10 " "EMF Weld Rod" ...	Vict.		"	0 4 6	Aust. Oxygen & Indust. Gases Pty. Ltd.
	Electrodes, Mild Steel, suitable for overhead work—"Quasi Arc"					
†1756	No. 8 S.W.G.	Vict. (partly)	5000 "	"	0 8 0	Robert Bryce & Co. Pty. Ltd.
†1757	No. 10 " ...	"	5000 "	"	0 6 3	
	Electrodes, Structural Grade, suitable for work required to be forged hot—"E.M.F. New Era" or "Extra fluxed," as ordered					
†1758	No. 4 S.W.G.	Vict.	30,000 "	"	0 12 0	Aust. Oxygen & Indust. Gases Pty. Ltd.
1759	No. 6 " ...	"	300,000 "	"	0 9 6	
†1760	No. 8 " ...	"	450,000 "	"	0 7 6	
†1761	No. 10 " ...	"	80,000 "	"	0 6 6	
1762	No. 12 " ...	"	5000 "	"	0 5 9	
1763	No. 14 " ...	"	2000 "	"	0 5 6	
	Electrodes, Mild Steel, Light Coated, suitable for use on 25 cycle A.C. supply—"EMF" Arc-type Rod—					
†1764	No. 6 S.W.G.	"	5000 "	"	0 5 9	Aust. Oxygen & Indust. Gases Pty. Ltd.
†1765	No. 8 " ...	"	50,000 "	"	0 4 6	
1766	No. 10 " ...	"	20,000 "	"	0 3 9	
	Electrodes, Steel, to deposit 0.5 per cent. carbon steel—					
†1767	No. 6 S.W.G. "Quasi Arc" ...	Vict. (partly)	6000 "	"	0 14 9	Robert Bryce & Co. Pty. Ltd.
†1767A	No. 6 " "EMF" High Carbon ...	Vict.		"	0 13 6	Aust. Oxygen & Indust. Gases Pty. Ltd.
†1768	No. 8 " "Quasi Arc" ...	Vict. (partly)	40,000 "	"	0 12 11	Robert Bryce & Co. Pty. Ltd.
†1768A	No. 8 " "EMF" High Carbon ...	Vict.		"	0 11 6	Aust. Oxygen & Indust. Gases Pty. Ltd.
†1769	No. 10 " "Quasi Arc" ...	Vict. (partly)	10,000 "	"	0 9 9	Robert Bryce & Co. Pty. Ltd.
†1769A	No. 10 " "EMF" High Carbon ...	Vict.		"	0 9 9	
	Electrodes, Cast Iron, suitable for work on cast iron that is heated—"EMF"					
†1770	No. 8 S.W.G.	Vict.	250 "	"	0 14 6	Aust. Oxygen & Indust. Gases Pty. Ltd.
†1771	No. 10 " ...	"	600 "	"	0 12 0	

ELECTRODES AND WELDING WIRE—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Wire, Mild Steel, Electric Welding, in coils—"Rylax Bros."				£ s. d.	
1772	$\frac{3}{16}$ " diameter ...	N.S.W.	70 cwt.	ton	24 19 9	Briscoe & Co. Ltd.
1773	$\frac{1}{8}$ " " ...	"	5 "	"	26 2 6	
	Wire, Steel, Electric Welding, to give a carbon steel deposit of approx. 0.5 per cent. carbon, "Rylax"—					
1774	$\frac{3}{16}$ " diameter in lengths of approx. 18"	"	15 "	cwt.	2 10 0	Australian Oxygen & Industrial Gases Pty. Ltd.
1775	$\frac{1}{8}$ " diameter in lengths of approx. 18" ...	"	2 "	"	2 10 0	
	Wire, High Tensile Steel, in coils, Oxy-Acetylene Welding, "Rylax"—					
1776	$\frac{1}{8}$ " diameter ...	"	5 "	"	1 17 6	Oxygen Service & Manufacturing Co. Pty. Ltd.
1777	$\frac{3}{16}$ " " ...	"	5 "	"	1 17 6	
1778	$\frac{1}{4}$ " " ...	"	2 "	"	2 2 6	
	Wire, Iron, in coils, Oxy-Acetylene Welding, "Rylax"—					
1779	10 S.W.G. ...	"	30 "	"	1 6 0	Australian Oxygen & Industrial Gases Pty. Ltd.
1780	$\frac{1}{16}$ " diameter ...	"	5 "	"	1 10 0	
1781	$\frac{3}{16}$ " " ...	"	50 "	"	1 5 0	
1782	$\frac{1}{4}$ " " ...	"	50 "	"	1 5 0	
	Wire, Manganese Bronze, Oxy-Acetylene Welding, in lengths of 3', "Austral Bronze"—					
1783	$\frac{1}{8}$ " diameter ...	"	20 "	"	†11 6 6	Allen-Liversidge (Aust.) Ltd.
1784	$\frac{3}{16}$ " " ...	"	35 "	"	†9 13 0	
1785	$\frac{1}{4}$ " " ...	"	175 "	"	†9 13 0	
	Wire, Brass, in coils, Oxy-Acetylene Welding "Austral"—					
†1786	$\frac{1}{4}$ " diameter ...	"	1 "	"	6 19 4	Australian Oxygen & Industrial Gases Pty. Ltd.
1790	Nil.					

CORKS AND BUNGS

	Corks—					
*1791	Axle-box, large quart and extra tapers ...	Vict. (partly)	2000 gross	gross	0 1 9	Vogt Bros.
*1792	Axle-box, small ...	"	40 "	"	0 1 2	
*1793	Bungs, $1\frac{1}{4}$ " for 5-gal. drums ...	"	10 "	"	0 5 6	
*1794	Bungs, $1\frac{1}{4}$ " tapered to $1\frac{3}{8}$ " x $1\frac{1}{4}$ " long ...	"	50 "	"	0 3 9	
*1795	Bungs, $1\frac{5}{16}$ " tapered to $1\frac{3}{16}$ " x $1\frac{1}{4}$ " long ...	"	50 "	"	0 3 6	
*1796	Bungs, 1" tapered to $\frac{7}{8}$ " x $1\frac{1}{4}$ " long ...	"	6 "	"	0 2 3	
*1797	Phial ...	"	20 "	"	0 1 1	
*1798	Roof Lamp, $1\frac{1}{4}$ " tapered to $1\frac{3}{8}$ " x $1\frac{1}{4}$ " long ...	"	2 "	"	0 3 3	
*1799	Shrive, $1\frac{1}{4}$ " tapered to $1\frac{3}{8}$ " x $\frac{5}{8}$ " long ...	"	3 "	"	0 1 4	
1800	Nil					

WOOL YARN PADS AND SKEINS

(Period 1/10/34 to 30/9/35).

7. The Wool Yarn Pads, and Skeins are for use for lubricating railway rolling stock axle

The Wool Yarn Pads shown opposite Item 1801 shall be supplied in continuous thread skeins of approximately 2 ozs. in weight each for 5 in. x 2 in. dia. pads, ranging to approximately 16 ozs. for 9 in. x 4 in. dia. pads, made up into Pads by lapping them, and tied (with binding twine of the best quality) in that form, in any length from 5 inches to 9 inches inclusive, by any diameter from 2 inches to 4 inches inclusive, as may be ordered.

The skeins shown opposite Item 1802 shall be continuous thread skeins, 24 inches in length, and approximately 8 ounces in weight each.

The necessary tests to ascertain whether the Wool Yarn delivered complies in every respect with this Specification will be conducted, and should more than 10% of any delivery fail to comply with the Specification, the whole of such delivery will be liable to rejection.

The Wool Yarn Pads shown opposite Item 1801, shall be provisionally delivered in the quantity and in the lengths and diameters as may be ordered, packed in cases or bales with the net weight plainly marked on each case or bale, and deposited where and as directed at the Workshops, North Melbourne, and the Wool Yarn Skeins shown opposite Item 1802, to be similarly trucked and delivered at the Workshops, Jolimont.

The rates are subject to decrease as may be determined by the Comptroller of Stores in the event of reduction in wages and/or increased working hours of employees concerned.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
†1801	Wool Yarn Pads, 5 inches long by 2 inches diameter to 9 inches long by 4 inches diameter, as ordered and as specified (1/10/34—30/9/35)	Vict.	18 tons	lb.	£ s. d. 0 0 11½	Foy & Gibson, Ltd.
†1802	Wool Yarn, in Skeins, 24 inches long (1/10/34—30/9/35)	"	5 "	"	0 0 9½	
1803	Nil.					

WATER TROUGHS.

7. Item 1804.—The Cattle Trough must be 12 feet long, with a cross-section of approximately 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. connection for a ball cock. A suitable steel hood and padlock shall be provided to protect the ball cock. No crating required.

8. Item 1805.—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-inch connection for a ball cock. A suitable steel hood and padlock shall be provided to protect the ball cock. The rate includes crating suitable for transport by rail.

9. Item 1806.—The Wash Trough shall be in two divisions, shall be of reinforced cement 1 inch thick, shall be 4 ft. 3 in. long, 14 in. 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 as approved by the Melbourne and Metropolitan Board of Works. The rate includes 3 in. x 1 in. hardwood crates, which shall remain the property of the Corporation.

Troughs, reinforced concrete, delivered f.o.r. Spring Vale Siding—						
1804	12' long, for Cattle (as specified), Type "A"	Vict.	6	each	6 5 0	Rocla, Ltd.
1805	8' long, for Pigs (as specified), without crossbars, Type "C"	"	2	"	2 13 6	
1806	Troughs, Wash, reinforced cement (as specified)	"	Nil.	"	1 4 0	Workshops Manager Spotswood
1807	Nil.					

PNEUMATIC AND SOLID TYRES.

As regards Items Nos. 1808 to 1808B, the following Guarantee has been submitted by the three Contractors:—

No specific warranty is given or implied with the Tyres tendered, but should any faults in material or manufacture develop within 180 days, which in Contractor's judgment preclude reasonable service being obtained by the user, then they will be—

(a) Repaired, free of charge, or

(b) A proportionate allowance will be made on a new Tyre, off the then current list, taking into consideration the service rendered by the defective Tyre, on a basis of 5,000 miles.
No cash refund will be made.

(c) Any Cover on which an allowance has been made under this Guarantee shall become the property of the Contractor.

The Contractors expressly disclaim any responsibility for—

(a) Covers that wear out before 180 days, if, in the Contractor's opinion, the Covers were free from faulty workmanship.

(b) Covers (whether of faulty workmanship or not) that have been destroyed or injured by accident, improper inflations, used on wheels out of alignment, used on rims that are rusty, damaged, or not of standard size for the Cover, or used in conjunction with any substitute for air, or any improper usage.

(c) Covers used on Motor Cycles, Side Cars, or Motor Tricycles.

(d) Covers used to carry loads that, taking the horse-power of the vehicles and road conditions into consideration, are considered by the Contractors to be excessive.

(e) Covers bought second-hand, blemished Covers, or Covers marked B or JOB.

(f) Accidents or damage to persons or property arising from any defect to Covers or Tubes, or to defective fitting by Contractor's servants or others.

(g) Covers fitted to any vehicle used for towage.

7. All Tyres and Tubes must be of the standard first grade production.

8. SPECIFICATION I.R. TYRES.—Items Nos. 1809 to 1817.

As regards Items Nos. 1809 to 1817, the Tyres shall be of the very best quality, solid grey indiarubber, and shall be securely vulcanized to the rims of the Corporation's vehicles. The moulds and rims may be inspected at the workshops of the Corporation at Newport. The moulds and rims will be delivered to the Contractor at the Metropolitan Receiving Depot, and shall be returned with the tyres and rims on the completion of an order or on demand in good order and condition to the Metropolitan Receiving Depot, Spencer-street.

As regards Items Nos. 1808 to 1808c, the estimated requirements are based on the full list price.

As regards Items Nos. 1808–1808B, it is agreed that the nett prices, which are based on list prices and trade discounts current at date of delivery, shall be regarded as the contract rates.

The contract rates may be increased in the event of production costs being increased as a result of increased costs of material or manufacture, or because of Federal or State Government obligations, beyond those obtaining at time of tendering—the Corporation having the right within seven days of notification of such increased contract rates to confirm same, or cancel the contract.

In the event of contract rates being amended, the Corporation shall not be placed at any disadvantage in comparison with other Government Departments.

Any variation in contract rates shall apply to all outstanding orders at the date of such variation.

Orders for Tyres and Tubes, Items Nos. 1808–1808c, are to be issued in the following proportions:—

Dunlop	56%	} of Departments requirements, Storekeeper Overhead Maintenance Storehouse to arrange.
Barnet Glass	28%	
Goodyear	16%	

A trial order is to be placed with the Olympic Tyre Company for a set of Tyres 29 x 4.40, 30 x 5.25, and 31 x 5.25, when tyres of these sizes are required, for renewals—Storekeeper Overhead Maintenance Depot to arrange.

As regards Items Nos. 1808–1808B, the discount of 2½% mentioned in rate column is subject to payment by 25th of month following delivery.

As regards Item No. 1808c, the discount mentioned in rate column is subject to payment within 30 days.

PNEUMATIC AND SOLID TYRES—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d. Percentage off, price list dated 1/6/34	
1808	Tyres and Tubes, Pneumatic, for motor cars, trucks and buses, as may be ordered, "Dunlop"	Vict. & N.S.W.		each	20% 5% & 2½%	Dunlop Perdreau Rubber Co. Ltd.
1808A	Tyres and Tubes, Pneumatic, for motor cars, trucks and buses, as may be ordered "Barnet Glass"	Vict. (partly)	£1500	"	"	Barnet Glass Rubber Co. Ltd.
1808B	Tyres and Tubes, Pneumatic, for motor cars, trucks and buses, as may be ordered, "Goodyear"	N.S.W.	"	"	"	Goodyear Tyre & Rubber Co. of A'sia Pty. Ltd.
1808C	Tyres and Tubes, Pneumatic, for motor cars, trucks and buses, as may be ordered, "Olympic"	Vict. (partly)	"	"	See note on previous page re 2½% discount	Olympic Tyre & Rubber Co. Pty. Ltd.
	Tyres, solid rubber, to be moulded on rims for industrial trucks—					
1809	6½ dia. x 6½"	"	2	each	£2 10 3	Dunlop Perdreau Rubber Co. Ltd.
1810	6½ dia. x 5"	"	2	"	£1 13 9	
1811	11½ dia. x 4½"	"	8	"	£2 5 0	
1812	14½ dia. x 3"	"	2	"	£2 10 0	
1813	14½ dia. x 4"	"	2	"	£2 12 6	
1814	16" dia. x 4"	"	30	"	£3 2 0	
1815	17½ dia. x 3½"	"	6	"	£3 6 0	
1816	17½ dia. x 5"	"	10	"	£3 10 0	
1817	20" dia. x 3½"	"	6	"	£4 2 0	
1818—1819 Nil						

† Less 2½% discount for payment by 25th of month following delivery.

AMBULANCE MATERIAL.

7. As regards Items 1822, 1826–1832, 1834, 1841, 1843, 1846, 1847, 1848, 1852, 1854, 1857–1859, 1864, 1870, 1871, 1873, 1876, 1879, 1886, 1887, the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract, the difference calculated on 50% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

As regards Items 1834, 1841, 1847 and 1873, the rates shall be firm as regards conversion, but shall be subject to adjustment as above for T.T. exchange.

8. Containers.—As regards Item 1853, the rate does not include the cost of containers, which are returnable and the amount to be paid by the Corporation for any such containers not returned to the Contractor at the Metropolitan Receiving Depot within thirty days from date of delivery of the material, is £1 each. This amount will be debited, and allowed by Contractor on return of jars.

As regards the contract with Henry Francis Pty. Ltd., three months from the date of the letter of acceptance will be allowed to enable stocks to be obtained of the items to be imported to meet initial orders.

† As regards Items 1881–1885, the rates are subject to 2½% discount for payment within 30 days.

The I.R. Stoppers to be supplied under Items 1881–1885 shall be capable of resisting liquid ammonia.

AMBULANCE MATERIAL—continued.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate	Name of Contractor
1820	Acid, Boracic	...	30 lb.	...	£ s. d.	Nil
1821	Acid, Picric	...	2 "	...	...
1822	Ammonia, Vaporole (12 in tin)	U.K.	24 tins	tin	0 2 4½	
1823	" Plastine " (Hospital size .5-lb. tins)	Vict.	200 tins	"	0 4 0	Felton, Grimwade & Duerdins Ltd.
1824	Arnica Tincture of, Bulk	"	6 lb.	16 fluid ozs.	0 4 3	
1825	Aspirin (5 gr.) Tabs., 500 in bottle	"	5 btls.	bottle	0 2 0	
1826	Bandages, Calico Roller, 3" x 6 yards	U.K.	1750 doz.	dozen	0 3 0	Felton, Grimwade & Duerdins Ltd.
1827	Bandages, Calico Roller, 2" x 6 yards	"	850 "	"	0 1 10	
1828	Bandages, Calico Roller, 1" x 6 yards	"	400 "	"	0 0 11	
1829	Bandages Open Wove, Rlr., 3" x 6 yards	"	800 "	"	0 1 8	
1830	Bandages, Open Wove, Rlr., 2" x 6 yards	"	800 "	"	0 1 2½	
1831	Bandages, Open Wove, Rlr., 1" x 6 yards	"	800 "	"	0 0 8½	Henry Francis (Wholesale) Pty. Ltd.
1832	Bandages, Calico (Triangular), in pkts. of 12	"	350 pkts.	packet	0 3 0	
1833	Baths, Eye, Glass	...	2 doz.	Nil
1834	Bottles, 2 dram	Japan	40 "	dozen	0 0 5	Felton, Grimwade & Duerdins Ltd.
1835	Bottles, 1 oz., Angular (Poison)	Vict.	175 "	"	0 0 10	
1836	Bottles, 2 oz., Angular (Poison)	"	20 "	"	0 1 1	
1837	Bottles, 1 oz., Square (clear glass)	"	20 "	"	0 0 8½	
1838	Bottles, 2 oz., Square (clear glass)	"	20 "	"	0 1 4	
1839	Bottles, 4 oz. Flat	"	40 "	"	0 1 10½	Felton, Grimwade & Duerdins Ltd.
1840	Bottles, 8oz. Flat	"	20 "	"	0 2 2	
1841	Brushes, Camel Hair (Goose)	Japan	80 "	"	0 0 8	Nil
1842	Collodion, Bulk	...	8 lb.	...	...
1843	Chloride of Lime	U.K.	3 "	lb.	0 1 0	Felton, Grimwade & Duerdins Ltd.
1844	Diarrhoea Mixture (1 lb. bottle)	Vict. (partly)	4 btls.	"	0 2 6	Henry Francis (Wholesale) Pty. Ltd.
1845	Droppers, Eye	"	3 doz.	dozen	0 2 0	Felton, Grimwade & Duerdins Ltd.
1846	Embrocation, Elliman's, 3¼ fluid ounces	U.K.	4 btls.	bottle	0 1 10	
1847	Forceps, Splinter	Germany	80 pairs	pair	0 0 3	Felton, Grimwade & Duerdins Ltd.
1848	Gauze, Plain, Butter Cloth in 100 yd. rolls	U.K.	8500 yards	dozen yards	0 2 0	
1849	Gauze, Absorbent, Compressed, Pleated (in 1 yd. pkts.)	...	240 "	Nil
1850	Glasses, Medicine, 2 tablespoons	Vict.	80	each	0 0 3	Felton, Grimwade & Duerdins Ltd.
1851	Ginger, Tinc. of, Butures (B.P.)...	"	15 lb	16 fluid ozs.	0 6 9	
1852	Horsehair, for Sutures, in hanks of 100 strands of 14"	U.K.	10 hanks	hank	0 0 6	Henry Francis (Wholesale) Pty. Ltd.
1853	Iodine, Tincture of, 2½%, in 5 gallon returnable jars	Vict. (partly)	40 gals.	gal.	3 2 6	
1854	Jaconette	U.K.	15 yds.	yard	0 2 0	Felton, Grimwade & Duerdins Ltd.
1855	Jars, Screw Top, 1 lb., square	Vict.	24 doz.	dozen	0 2 7	
1856	" " ¼ lb. " "	"	24 "	"	0 2 2	

AMBULANCE MATERIAL—continued.

Item No.	Description	Country of Manufre	Estimated Requirements	Rate per	Rate	Name of Contractor
1857	Lint, 1 oz. pkt., Plain	U.K.	24 doz.	doz.	£ s. d. 0 2 3	Greenhalgh's Ltd.
1858	Lint, 1 lb. pkt., Plain	"	20 "	"	1 7 0	Felton, Grimwade & Duerdins Ltd.
1859	Lint, 1 lb. pkt., Borated	"	6 "	"	0 19 6	
1860	Lotion, Calamine	Vict. (partly)	20 lb.	16 fluid ozs.	0 1 4	
1861	Lysol, 1lb. bottles	Vict.	30 "	lb.	0 1 2	Nil
1862	Magnesia Sulphate	"	20 "	"	"	
1863	Methylated Spirits (Pure)	Vict.	35 gals.	gal.	0 4 9	
*1864	Needles, Surgeon's, assorted pkts. 6 in pkt. half curved	U.K.	200 pkts.	packet	0 0 11½	Felton, Grimwade & Duerdins Ltd.
1865	Oil, Olive, in 1 gall. tins	"	15 lb.	"	"	Henry Francis (Wholesale) Pty. Ltd.
1866	Oil, Castor, Pure (Bulk)	"	10 "	"	"	Nil
1867	Ointment, Boric (1 lb. pots)	"	15 "	"	"	
1868	Ointment, Zinc (in 1 lb. pots)	"	5 "	"	"	
1869	Peroxide of Hydrogen, in 1 lb. bottles	Vict.	50 "	lb.	0 0 10	Felton, Grimwade & Duerdons Ltd.
†1870	Plaster, "Z.O.", 1" x 1 yard	U.K.	200 doz.	dozen	0 2 1½	Greenhalgh's Ltd.
†1871	" " 1" x 10 yards	"	30 "	"	0 13 6	
1872	" " 2" x 10 yards	Vict. (partly)	15 "	"	1 3 9	Dunlop, Perdriau Rubber Co. Ltd.
1873	Potash, Permanganate of, (Bulk)	France	3 lb.	lb.	0 1 3	Felton, Grimwade & Duerdins Ltd.
1874	Pins, Safety (12 on card)	"	200 doz.	dozen cards	"	Nil
1875	Sal Volatile (Bulk)	Vict. (partly)	250 lb.	16 fluid ounces	0 5 3	Felton, Grimwade & Duerdins Ltd.
*1876	Scissors, Surgeons', 5", Chrome plated	U.K.	50 doz.	doz.	1 9 0	Denyers Pty. Ltd.
1877	Silk, Oil, 36" wide	"	5 yards	"	"	Nil
1878	Soap, Carbolic, Bars, ½'s	S.A.	20 lb.	lb.	0 1 0	Felton, Grimwade & Duerdins Ltd.
1879	Snakebite Antidote, "Lauder Brunton"	U.K.	50 tubes	tube	0 0 6½	
1880	Wooden Tubes	"	"	"	"	Nil
1880	Stalls, Finger	"	3 doz.	"	"	
†1881	Stoppers, (Grey Rubber), soft, No. 1	N.S.W. (partly)	10 gross	gross	0 6 9	Hardie Rubber Co. Ltd.
†1882	" " " " 2	"	20 "	"	0 7 0	
†1883	" " " " 3	"	20 "	"	0 7 3	
1884	" " " " 4	"	10 "	"	0 7 6	
†1885	" " " " 5	"	10 "	"	0 7 9	
†1886	Wool, Surgeons', Plain, 1 oz. Cartons	U.K.	20 doz.	dozen	0 1 4	Hicks, Atkinson & Sons Pty. Ltd.
1887	" " " 4 oz.	"	10 "	"	0 4 3	
1888	" " " 1 lb.	Vict.	1500 lb.	lb.	0 1 2½	
1889	Ung. Hydrarg. B.P.	"	15 "	"	"	Orders are to be placed with Hospitals Board of Supplies for grade "H1" at 1/2½d. per lb.
1893	Nil 81-90	"	"	"	"	Nil

† Less 2½% discount—30 days.

TELEGRAPH AND TELEPHONE MATERIAL

(Period 1/10/34 to 30/9/35).

8. SPECIFICATION FOR DRY CELLS.—*Item No. 1896.*

(a) **General.**—The Cells are required for light intermittent service such as telephone operation, bell ringing and similar work. Except where otherwise specified in this specification cells shall comply with British Standard Specification No. 397, of 1933, and are therein designated as type D.R. 3.

(b) **Terminals.**—Two knurled brass terminals shall be provided, fixed in an approved manner to the electrodes.

(c) **Samples.**—The tenderer shall submit with his tender two sample Cells.

(d) **Tests.**—All of the Cells delivered will be subjected to the following test in addition to the appropriate tests specified in B.S.S. 397 of 1933—

The current reading at the expiration of one minute will be measured through a resistance of 3 ohms., including the resistance of the ammeter. It shall not be less than 480 milliamperes in the case of a new cell.

(e) **Branding.**—Cells shall be branded "VICTORIAN RAILWAYS," and the method of branding to be adopted shall be stated by the tenderer in the tender. Cells shall also be branded with the words TESTED BY and DATE, a sufficient space being left at the side of these words to accommodate the signature and date affixed by the Railways Testing Officer.

(f) **Packing.**—The Cells shall be delivered securely packed in strong cases containing 50 cells in each case. There shall be a moisture proof covering between cells and packing.

(g) **Efficiency.**—The tenderer shall state the guaranteed capacity in watt. hours of each Cell offered by him, but in no case shall the minimum output be less than 35 watt. hours. The electrical efficiency of a cell offered under this specification shall be the watt. hour output as determined by tests conducted by the Department on sample cells extracted from each delivery. Where the Cells are manufactured in the Commonwealth, 12 cells chosen at random from each delivery shall be taken. Of these, 6 shall be submitted to watt. hour capacity tests as described hereunder. The remaining 6 shall be held for further joint or independent tests in event of the Contractor wishing to dispute the results of the Department's tests. In this event the value of these remaining 6 cells shall be deducted from payments to be made to the Contractor. The watt. hour capacity tests shall be conducted as specified in B.S.S. 397/1933. These tests will be conducted in the Laboratory of the Department. The watt. hour capacity of the Cells supplied will be taken as being the average of the cells so tested and will be the basis upon which the deductions referred to hereunder in regard to deficiencies in watt. hours will be enforced.

(h) **Deficiency in Watt. Hours.**—Should the watt. hour capacity as determined by the tests set out in the preceding paragraph indicate that the cells are furnishing a watt. hour output of less than 35 watt. hours per cell, the Contractor shall forfeit from the amount withheld, an amount per cell bearing the same proportion to the contract price as the reduction in watt. hour capacity bears to the minimum watt. hour output required, i.e., 35 watt. hours.

Should the 5% withheld in accordance with paragraph (i.) be insufficient to cover the claim of the Department, the Contractor must agree to accept a corresponding reduction in price from payments due for cells delivered. Nothing in this specification or in the conditions of contract shall prejudice the right of the Department to recover from the Contractor any amount exceeding the 5% retained should this amount be insufficient to cover the claim.

(i.) **Acceptance.**—A payment of 95% of the Contract price will be made for Cells accepted as having passed the tests as laid down in this specification and as having been correctly delivered in other respects. The balance of 5% will be withheld until the tests referred to in paragraph (g) have been completed.

9. SPECIFICATION FOR No. 2 POROUS POTS.—*Items Nos. 1910 and 1911.*

Pots shall comply with B.S.S. 397/1933 in so far as it applies.

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

Brass terminals 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 $\frac{3}{16}$ 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 terminals) shall be dipped into a mixture of paraffin Wax and ozokerite to within half an inch below the top of the porous pot.

Tenderers shall submit with their tender two (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 $4\frac{1}{2}$ inches, and water maintained at this level for 24 hours with suitable precautions against evaporation. At the end of this period not less than 100 cubic centimeters of water shall have passed through the pot.

If required, 12 weeks to be allowed for the initial order.

TELEGRAPH AND TELEPHONE MATERIAL—continued.

Each of the Carbons shall be furnished with tightly fitting bands to prevent them touching the Zinc Rod as used by the Corporation, and shall otherwise be in accordance with the sample exhibited by the Corporation for the guidance of tenderers.

As regards Items 1894, 1895, 1898, 1902, 1909, 1910, the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the Contract period, the difference calculated on 40% of the Contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

As regards Item 1913 adjustment for exchange shall be as above except that it will be calculated on an amount of £2 each and as at the date of delivery.

As regards Items 1894, 1895, 1898, 1902, and 1909 the rates are firm as regards conversion.

As regards Item 1911, T.T. exchange between Australia and London is to Corporation's account, and will be charged at the rate current at the date of delivery on an amount of 1/- per carbon. Conversion has been calculated in the contract rate at 124.21 francs to £1 sterling, and any variation on the date of delivery will be charged on 1/- per carbon. Exchange between Australia and London at the published rate on the date of delivery will be charged on the amount represented by the sum which has to be remitted by the Contractor to cover the depreciation of the £1 sterling.

Item 1913.—Delivery ex stock for ordinary requirements. Special quantities 10/12 weeks for delivery.

Item No.	Description.	Country of Manuf're.	Estimated Requirements	Rate per	Rate.	Name of Contractor.
					£. s. d.	
†1894	Bells, Extension, Magneto type, mounted, "RA-30"—					
	2500 ohms.	Sweden	35	each	1 0 0	} Ericsson Telephone Manufacturing Co.
†1895	1000 ohms.		25		0 19 0	
†1896	Cells, Dry, to Specification, to be branded "The property of The Victorian Railways Commissioners."	Vict.	12,000	"	0 1 3	Widdis Diamond Dry Cells Pty. Ltd.
†1897	Condensers, 2 M.F., approx. 4½" x 2" x ½"		150			Nil
	Cords—					
†1898	Receiver for Auto. Coy.'s Table Telephones 2' 9" long, 2 Conductor Cord "RS-4010"	Sweden	75	"	0 1 2	Ericsson Telephone Manufacturing Co.
†1899	Switchboard, 5' long, 3 conductor, to fit Kellog plugs					} Nil
†1900	Switchboard, 4' 6" long, 2 conductor, red					
†1901	Switchboard, 4' 6" long, 2 conductor, white					
†1902	Cord, Telephone, braided, silk insulated, four-way	Sweden	1000 yds.	yard	0 1 0	Ericsson Telephone Manufacturing Co.
*1903	Mouthpieces, for W.E. Telephones	Vict. (partly)	300	each	0 0 3	McKenzie & Holland (Australia) Pty. Ltd.
	Pins, Queensland, Galvanized, to Drawing, No. F. 1465—					
1904	Large, No. 3	Vict.	2000	"	0 0 6.4	} McPhersons Pty. Ltd.
1905	Small, No. 4		90		0 0 5.45	
1906	Pins, Telegraph, Blue Gum; Jarrah, Iron-bark, Blackwood, Stringy-bark, or other approved Timber, to Drawing IF. 2459, amended		6000	1000.	5 8 4	Chief Mechanical Engineer
*1907	Pins, Insulator, Galvanized, with Pat. B, Lead Head; Goose Neck, ½"	"	250	each	0 0 3	McPhersons Pty. Ltd.
†1908	Plugs—2-Conductor "Kellog"					Nil
†1909	" 2-Conductor, "W.E."	Sweden	100	each	0 2 8	Ericsson Telephone Manufacturing Co.
†1910	Pots, Porous, Leclanche, to Specification, "Atlas"	U.K.	2300	"	0 1 5½	The Lawrence & Hanson Electrical Co. Ltd.
†1911	Carbons, A.D. No. 245	France & Vict.		"	0 1 9	McKenzie & Holland (Australia) Pty. Ltd.
†1912	Receivers, Polarized Bell Type					Nil
†1913	Telephones—Table Type, Automatic, "Astic A Type Neophone"	U.K.	50	"	3 5 0	Siemens (Australia) Pty. Ltd.
†1914	Zincs, No. 218, for A.D. Caustic Soda Cells	Vict.	1000	"	0 2 10½	McKenzie & Holland (Australia) Pty. Ltd.
1915-1919	Nil.					

ACETYLENE, CARBONIC ACID GAS AND OXYGEN.

ACETYLENE.

7. 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 deg. 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 discolor.

The Acetylene and Cylinders supplied shall comply with the standard set by the British Acetylene Association and shall be manufactured and charged in strict accordance with the Home Office Regulations contained in the order of Secretary for State (No. 9), dated June 23rd, 1919.

The rate 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. 1920 and 1921 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.

8. 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.

The Australian Oxygen Co. and Oxygen Service Co. shall have the right to test, before refilling, any Departmental cylinders which have not been previously tested for a period of two years, and the cost of such test, at 3s. 6d. per cylinder, will be borne by the Corporation.

As regards cylinders of Australian Oxygen Co. and Oxygen Service Co., if any cylinders be not returned within six months, and if claim be made, a deposit will be lodged by the Corporation as shown below, 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 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.

VALUE OF CYLINDERS.

	£.	s.	d.	
Carbonic Acid Gas Cylinders, 50 lb. capacity	7	10	0	each
Oxygen Cylinders, 200 c. ft. capacity	7	10	0	"
" " 100 " " "	5	0	0	"
" " 40 " " "	3	0	0	"
" " 20 " " "	2	0	0	"
" " 6 " " "	1	10	0	"
Hydrogen Cylinders 100 " " "	5	0	0	"

Rates do not include Sales Tax: if exemption clause be not included on order, Sales Tax payable. This refers to Refreshment Services Branch.

As regards Items 1920-1923, Allen-Liversidge shall furnish a quarterly statement of residual gas obtained from cylinders returned and credit the Dept. with the value of same.

As regards Items 1924 to 1925, delivery will be made free of charge direct to, and empty cylinders collected from, any point in Melbourne or Suburbs, as directed by Comp. of Stores.

As regards Item 1925 and 1925A, orders shall be allotted as under—

65% of requirements to Aust. Oxygen and Ind. Gases Pty. Ltd.

35% " " Oxygen Service & Mftg. Co. Pty. Ltd.

(To be arranged and kept under review by S. House Manager.)

ACETYLENE, CARBONIC ACID GAS AND OXYGEN—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
1920	Acetylene, compressed, purified— In Departmental Cylinders	Vict.	50 lb.	lb.	0 1 11	Allen-Liversidge Aust. Ltd.
1921	In Cylinders supplied by the Contractor	"	80,000 "	"	0 2 0	
1922	Acetylene, in Cylinders of 100 c. ft. capacity, suitable for Departmental flares in use at Overhead Depots	"	1750 "	"	0 2 0	
1923	Acetylene, in Cylinders of 50 c. ft. capacity, suitable for Departmental flares in use at Overhead Depots	"	1750 "	"	0 2 0	
1924	Gas, Carbonic Acid, in steel cylinders, supplied by Contractor, containing 50 lb. of gas each	"	17,500 "	"	0 0 4	Australian Oxygen & Industrial Gases Pty. Ltd.
1924A	Gas, Carbonic Acid, in Departmental steel cylinders, containing 50 lbs of gas each	"	"	"	0 0 4 less 10%	
1925	Oxygen, not less than 99 per cent.	"	3,900,000 c. feet	100 c. ft.	0 4 3	Oxygen Service & Mfg. Co. Pty. Ltd. Australian Oxygen & Industrial Gases Pty. Ltd.
1925A	" " " "	"	2,100,000 "	"	0 4 3	
1926	Hydrogen, in cylinders of 100 cubic feet	"	8000 c. ft.	"	0 12 6	
1927-1928	Nil					

COKE AND COAL TAR.

Specification.

7. **Quality.**—The Coke and Coal Tar shall be the very best quality of their respective kinds.

8. **Gas Coke.**—The Gas Coke shall conform to the following specification:—
 Moisture ... Less than 3 per cent.
 Sulphur ... Less than 1 per cent.
 Volatile Matter ... Less than 2 per cent.
 Ash ... Less than 10 per cent.

9. **Tests of Coke.**—All tests to ascertain if the Coke complies with this specification will be carried out by the Corporation on samples which will be taken from deliveries of Coke in trucks after arrival at the Workshops of the Corporation, or on samples which will be taken from any Coke after it is delivered direct by the Contractor to the place specified on the order for same.

10. **Empty Bags for Coke.**—In the event of Coke being ordered for delivery in bags, the necessary empty bags will be delivered by the Corporation, free of all charges incidental thereto, at the works of the Contractor, and the fact that the necessary bags have been so delivered will be indicated on all orders affected by this provision, before they are issued to Contractor, excepting that for Item 1940 the Coke shall be delivered in Contractor's bags which will be returnable.

11. **Weights of Coke.**—All weights shall be net and shall be ascertained by weighing the Coke on the weighbridge scales or other weighing machines of the Corporation, excepting where it is not practicable to obtain weights as aforementioned, a weighbridge weight docket shall be furnished by the Contractor with each delivery of Coke.

12. **Coal (Crude) Tar.**—The Coal Tar shall conform to the following specification:—

Source.—The Tar shall be solely the natural residual resulting from the destructive distillation of bituminous coal, during the process of gas manufacture.

The Tar shall not contain more than 5% by volume of water (ammoniacal liquor); an allowance shall be made for any water in excess of 5%.

Specification.
 Specific Gravity at 77° F from ... 1.04 to 1.16
 Free Carbon from ... 2 to 14% by weight
 Total Oils to 300° C. between the limits ... 28 to 36% incl. by volume.
 Pitch Residue ... 64 to 72% incl. by volume.

13. **Tests of Coal Tar.**—All tests to ascertain if the Coal Tar complies with this specification will be carried out by the Corporation on samples which shall be taken at the discretion of the Comptroller of Stores from any delivery.

COKE AND COAL TAR—continued.

14. **Empty Containers for Tar.**—In every case where Coal Tar is ordered, the necessary containers will be delivered by the Corporation, free of all charges incidental thereto, at the works of the Contractor (and the fact that the necessary containers have been so delivered will be indicated on all orders for Coal Tar before they are issued).

15. **Gallage of Tar.**—The gallage of Coal Tar as ascertained at the Contractor's works shall be accepted for the purpose of this Contract.

16. **Delivery.**—The Coke and Coal Tar shall be delivered by the Contractor at the place or places stipulated in the Schedule.

17. **Each Truck to be Loaded to its Prescribed Tonnage Capacity.**—Provided there is an order with the Contractor a quantity sufficient for the purpose, the Contractor shall load to its prescribed tonnage capacity each truck in which Coke or Coal Tar is delivered, and in the event of failure on the part of the Contractor to so load any truck, the Corporation reserves the right to debit the Contractor with such amount as may be determined by the Comptroller of Stores, after taking into consideration the shortage in weight, the distance of the haul, and any other circumstances.

As regards Items 1929/32A as the coke supplied by The Metropolitan Gas Co. and the Colonial Gas Co. is of about equal quality, the business should as far as possible be equally divided between these two Contractors.

As regards items for Coal Tar orders are to be placed with Coates & Co. for Tar required in Country districts and for use in special work in the Metropolitan district.

The Contract with the Metropolitan Gas Co., provides for time of delivery to be extended in the event of strikes or labor troubles of any kind preventing delivery by the due dates.

The Contracts with the Metropolitan Gas Co. and The Colonial Gas Co. also provide for the rates being amended should there be any variations in the price of Coke at Contractor's Works during the Contract period, such increase or decrease in the rates shall apply to any Coke undelivered at the date of such variation in price of Coke.

Delivery of Coke by the Colonial Gas Association shall be given at Footscray, Box Hill or Oakleigh, at Corporation's option.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
1929	Coke, Ordinary, Loose, delivered into Departmental Drays at Contractor's Works, Footscray	Vict.	20 tons	ton	1 12 0	Colonial Gas Association Ltd.
1929A	Coke, Ordinary, Loose, delivered into Departmental Drays at Contractor's works at West Melbourne	"		"	1 12 0	The Metropolitan Gas Co.
1930	Coke, Ordinary, Loose, delivered direct by Contractor within a radius of one (1) mile from the Spencer Street Railway Station	"	20 "	"	1 14 0	Colonial Gas Association Ltd.
1930A	Coke, Ordinary, Loose, delivered direct by Contractor within a radius of one (1) mile from the Spencer-street Railway station	"		"	1 14 0	The Metropolitan Gas Co.
1931	Coke, Ordinary, Bagged, delivered direct by Contractor within a radius of one (1) mile from the Spencer-street Railway station	"	40 "	"	1 15 0	Colonial Gas Association Ltd.
1931A	Coke, Ordinary, bagged, delivered direct by Contractor within a radius of one (1) mile from the Spencer Street Railway Station	"		"	1 15 0	The Metropolitan Gas Co.
1932	Coke, Ordinary, Loose, delivered free on rails at Loop "B" Footscray, Box Hill, or Oakleigh	"	4000 "	"	1 14 0	Colonial Gas Association Ltd.
1932A	Coke, Ordinary, Loose, delivered free on rails at Pigott-street Siding, West Melbourne	"		"	1 14 0	The Metropolitan Gas Co.
1933	Coke, Ordinary, Bagged, delivered free on rails at Spencer-street, Melbourne	"	20 "	"	1 15 0	

COKE AND COAL TAR—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
1934	Coke, Ordinary, Loose, delivered by Contractor direct into Bins at Ballarat North Workshops	Vict.	200 tons	ton	£ s. d. 2 1 0	The Ballarat Gas Co.
1935	Coke, Ordinary, Bagged, delivered direct by Contractor to the Railway Refreshment Rooms at Ballarat	"	120 "	"	2 1 0	
1936	Coke, Ordinary, Loose, delivered by Contractor direct into Bins at Bendigo North Workshops	...	200 "	"	...	To be obtained under item 1932
1937	Coke, Ordinary, Bagged, delivered direct by Contractor to the Railway Refreshment Rooms at Bendigo	Vict.	120 "	"	2 5 0	Bendigo Gas Co.
1938	Coke, Ordinary, Bagged, delivered direct by Contractor to the Railway Refreshment Rooms at Ararat, or into trucks at Ararat Railway Station for the Loco. Depot, Ararat	"	60 "	"	2 5 0	The Gas Supply Co. Ltd.
1939	Coke, Ordinary, Bagged, delivered direct by Contractor to the Railway Refreshment Rooms at Geelong	...	60 "	...	...	Nil.
1940	Coke, Ordinary, Bagged, delivered by Contractor direct into Bins at Electrical Depot Storehouse, Spencer Street, Melbourne in Contractor's bags, which will be returnable	Vict.	600 "	ton	1 15 0	The Metropolitan Gas Co.
1941	Coal Tar (to Specification)—Tar, Coal, delivered at Contractor's Works, West Melbourne	"	8,000 gallons	gal.	0 0 4	
1941A	Tar, Coal, delivered at Contractor's Works at Mentone	"		"	0 0 5½	Coates & Co. Pty. Ltd.
1941B	Tar, Coal, delivered at Contractor's Works at Ballarat or Bacchus Marsh	"		"	0 0 5½	
1941C	Tar, Coal, delivered at Contractor's Works at Ararat	"		"	0 0 6½	
1941D	Tar, Coal, delivered at Contractor's Works at Stawell	"		"	0 0 6½	
1941E	Tar, Coal, delivered at Contractor's Works at Warracknabeal, Sale or Albury	"		"	0 0 7½	
1942	Tar, Coal, delivered free on rails at Spencer-street	"	12,000 gals.	"	0 0 4½	The Metropolitan Gas Co.
1942A	Tar, Coal, delivered free on rails at Mentone	"		"	0 0 6	
1942B	Tar, Coal, delivered free on rails at Ballarat	"		"	0 0 5½	Coates & Co. Pty. Ltd.
1942C	Tar, Coal, delivered free on rails at Bacchus Marsh	"		"	0 0 5½	
1942D	Tar, Coal, delivered free on rails at Ararat	"		"	0 0 6½	
1942E	Tar, Coal, delivered free on rails at Stawell	"		"	0 0 6½	
1942F	Tar, Coal, delivered free on rails at Warracknabeal, Sale or Albury	"		"	0 0 7½	
1943-1944	Nil					

**PORTLAND CEMENT.
SPECIFICATION.**

8. **Quality.**—The Portland Cement shall comply, in every particular, with the Specification of the Australian Commonwealth Engineering Standards Association No. A2—1926.

9. **Weights.**—In each and every lot of twenty-four (24) multi-wall paper bags delivered there shall be contained one (1) ton (2240 lb.) nett weight of Cement.

Selective check weighings of any lots of twenty-four bags will be made by the Corporation from time to time, and at any time, to ascertain if the foregoing provision is being complied with.

All weights shall be nett and will be ascertained by weighing the Portland Cement on the weighbridge scales or other weighing machines of the Corporation, and all such weights so ascertained by the Receiving Officer shall for all purposes be accepted by the parties to this Contract as correct and final and binding.

10. **Branding.**—Each Bag shall be branded V. A. R.

Each mark shall be three inches high, suitably spaced, and shall be printed or stencilled at the Contractor's option.

11. **Delivery.**—The Portland Cement shall be provisionally delivered by and at the cost of the Contractor, free on rails at Fyansford, subject to inspection and tests carried out by the Corporation and to the operation of the "Rejection" clause of the Conditions of Contract.

In the event of any general reduction in the selling price of cement to Government Departments, during the currency of the Contract, the Contract Rate shall be amended accordingly. Should a special rate be made in connection with a sale to another Government Department to which special consideration may apply, no amendment in the Contract Rate will be made, provided the Corporation is accorded the benefit of any special rate in cases when the determining special considerations are complied with.

To be ordered in minimum truck loads of 11 tons.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
1945	Cement, Portland, as specified, in approved Multi-wall Paper Bags, "Arc," delivered f.o.r. Fyansford	Vict.	bags 15,000	ton	£ s. d. 4 2 0	Australian Cement Ltd.

GAS MANTLES

SPECIFICATION.

7. **Quality of Material.**—The Gas mantles shall be constructed of the best materials saturated with proper proportion of Oxides of Thorium and Cerium. (The weights of Oxides of Thorium and Cerium present in proportion to the total weight of the mantle shall be taken as an indication of the quality of the mantle.)

8. **Particulars.**—The mantles shall be in accordance with the particulars shown opposite the various items in the Schedule, and shall have a high photometric value and shall be in accordance with samples submitted with the tender. The mantles under Items Nos. 1946 to 1949 shall be complete with base.

9. **Tests.**—The sample mantles shall be tested in a Woodall Moon or other gas mantle testing machines by and at the cost of the Corporation as follows:—

- (a) The sample mantles shall be adjusted to a gas burner and burned off for 5 minutes.
- (b) The sample mantles shall be adjusted to a gas burner and burned continuously for a period of 24 hours.

The mantles after being burned for the periods specified in (a) and (b) shall be subjected to shock tests and their ability to withstand such shall be taken as the measure of durability.

Any number of mantles as may be decided by the Comptroller of Stores may be taken from each lot in each delivery of mantles under this Contract, and may be tested as above to determine if they comply with the Contract sample. Should the mantles so tested fail to comply in any particular with the Contract sample the whole of the lot from which they were selected will be liable to rejection.

10. **Containers.**—The mantles under Items Nos. 1946 to 1949 shall be supplied, each in separate cardboard containers, so constructed to protect the mantle from damage, and so that the mantle can only be removed by sliding it out of the container.

The mantles shown under Items Nos. 1950 and 1951 shall be suitably packed in containers to protect them from damage.

11. Ten weeks will be allowed from date of acceptance for importation, subsequent deliveries ex stock.

GAS' MANTLES—continued.

12. McMicking & Co.'s rates are based on the rates of Customs Duty and Primage Duty ruling on 27/6/34, and T.T. exchange at 25½%, and in the event of there being any alteration in such duties or should the rate of exchange vary, same shall be to the Corporation's account in so far as the shipment or shipments affected are concerned, and shall be calculated on the f.o.b. selling values as disclosed by declared customs documents. The Corporation will not be liable for any increase in the event of the Contractor's failing to deliver within the time stated in the order, or if duties be not paid on the most satisfactory basis for British material.

13. Falk, Stadelmann & Co. Ltd.'s rate includes Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the Contract period, the difference calculated on 3/1 per gross shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

A minimum quantity of 12 No. is to be ordered under Item 1951.

13. Rates include wharfage—and in the event of Mantles requiring to be imported after receipt of an order, and if the quantity involved is sufficient to warrant action being taken, it is desired that the same be consigned to the Comptroller of Stores of the Victorian Railways Department in order that the benefit of free wharfage may be obtained. Wharfage will be cleared by the Corporation and the Delivery Order returned to the Contractor to complete delivery. The amount involved will be deducted from the Contractor's invoice.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
†1946	Mantles, Pintsch Gas, 25 C.P., Incandescent, Inverted, complete with bases and as specified "Lighting Trades Ltd."	U.K.	300 doz.	dozen	0 4 8	McMicking & Coy.
†1947	Mantles, Pintsch Gas, 50 C.P., Incandescent, Inverted, complete with bases, and as specified, "Lighting Trades Ltd."	"	2000 "	"	0 4 8	
†1948	Mantles, Bland, Large, Incandescent, Hard, Inverted, complete with bases, and as specified "Lighting Trades Ltd."	"	40 "	"	0 5 3	
†1949	Mantles, Bland, Small, Incandescent, Hard, Inverted, complete with bases and as specified "Lighting Trades Ltd."	"	75 "	"	0 5 3	
†1950	Mantles, Incandescent, Lux, 700 C.P., as specified "Lighting Trades Ltd."	"	220 "	"	0 15 8	
†1951	Mantles, Gloria Light, No. 20 Lamp, "Veritas" Special Hill texture	"	100 "	"	0 4 6	Falk Stadelmann & Co. Ltd.
1952	Nil					

SERGE AND TWILL, ETC.

(See Appendix "G" for specification)

(Period 1/10/34 to 30/9/35)

*†1953	Cloth, Tasmanian Bluey, not less than 56" wide	Vict.	350 l. yds:	1. yd.	0 6 0	The Federal Woollen Mills Pty. Ltd.
*†1954	Cloth, 24 oz. per lin. yard, 58" wide, for Overcoats, "C.N.2"	"	1200 "	"	0 6 0	Godfrey Hirst & Co. Pty. Ltd.
*†1955	Serge, 18 oz. per lin. yard, 58" wide	"	4500 "	"	0 6 0	
*†1956	Serge, 20 oz. per lin. yard, 58" wide	"	6000 "	"	0 7 0	
*†1957	Twill, 18 oz. per lin. yard, 58" wide	"	3000 "	"	0 9 0	The Federal Woollen Mills Pty. Ltd.
1958	Nil					

OVERALLS.

Overalls shall be to sample exhibited by the Corporation for general style and workmanship, and to sample submitted of "Tobralco" which will be used in the manufacture of the Overalls.

10. **Cards on Overalls.**—The Contractor shall attach a card to each Overall on which he shall insert the Order Number, Grade and Location of the Employee for whom the article was ordered, and the measurements furnished by the Corporation, to which the garment has been made.

11. **Delivery Docket and Lists.**—The Contractor shall, with each delivery of the Overalls, furnish to the Receiving Officer:—

(a) A delivery Docket (in triplicate) on forms provided by the Corporation for that purpose;

(b) A list (prepared in triplicate) showing the Order Number, and Names, Grades and Locations of the Employees for whom the Overalls were ordered.

12. **Inspection and Rejection at Contractor's Factory.**—The Comptroller of Stores or the Receiving Officer shall have free access to all parts of the factory of the Contractor at all reasonable times. He shall be at liberty to inspect the material during the manufacture of the Overalls and to reject any material or Overall that does not conform to the Contract, and notwithstanding that any Overall may have been inspected and passed at the factory of the Contractor, it shall be liable to rejection as provided in Clause 13 of the annexed Conditions of Contract.

Any Overall rejected by the Comptroller of Stores or the Receiving Officer at the factory of the Contractor shall not be re-submitted for delivery without the approval of the Comptroller of Stores or the Receiving Officer.

SPECIFICATION.

QUALITY, WORKMANSHIP, ETC.

13. The Overalls supplied shall be in strict accordance with the Contract sample as regards style and workmanship, and shall be manufactured from the material submitted by the Tenderer and accepted by the Corporation. They shall be subject to such examination and tests as the Comptroller of Stores may direct.

MEASUREMENTS.

14. The Overalls shall be supplied in strict accordance with the measurements furnished with the order.

INSPECTION.

15. Final inspection of the Overalls will be made at the Uniform Room, No. 28, 1st Floor, Railway Buildings, Flinders-street, Melbourne.

DELIVERY.

16. The Overalls shall be provisionally delivered at the Uniform Room, No. 28, 1st Floor, Railway Buildings, Flinders Street, Melbourne.

Item No.	Description.	Country of Manuf're.	Estimated Requirements	Rate per	Rate.	Name of Contractor.
					£ s. d.	
†*1959	Overalls—"Tobralco" with 2 detachable white collars, to sample exhibited, and to measurements supplied by the Corporation	Vict. (partly)	250	each	0 12 0	Uniforms Specialists Pty. Ltd.

ACCUMULATOR CELLS AND SPARE PARTS.

(See Appendix "H" for Specification)

Delivery.—The Accumulator Cells and Spare Parts shall be provisionally delivered deposited where and as directed at the Corporations' Car Shed Store, Dudley-street, Melbourne, in the manner described in the "Delivery" clauses of the conditions of contract, to the entire satisfaction of the Comptroller of Stores.

Name of Manufacturer, Items No. 1960-1974D and 1976-8, The Associated Battery Makers of Australia Ltd.

1960	Accumulator Cells, complete—as specified— 13 plate, Demi-plante	N.S.W.	200	each	5 14 9	} Coates & Co. Pty. Ltd.
1961	9 plate, Demi-plante	"	280	"	4 14 0	
1962	Accumulator Cell Boxes, complete with lids—as specified— For 21 plate Standard Tonum Cells ...	"	25	"	2 5 6	
1963	For 15 plate Standard Tonum Cells ...	"	70	"	2 0 0	
1964	For 13 plate Demi-plante Cells ...	"	80	"	1 18 9	
1965	For 11 plate Standard Tonum Cells or 9 plate Demi-plante Cells	"	900	"	1 14 3	

ACCUMULATOR CELLS AND SPARE PARTS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Accumulator Cell Lids, complete, as specified—				£ s. d.	
1966	For 21 plate Standard Tonum Cells ...	N.S.W.	60	each	0 7 6	Coates & Co. Pty. Ltd.
1967	For 15 plate Standard Tonum Cells ...	"	130	"	0 6 5	
1968	For 13 plate Demi-plante Cells ...	"	130	"	0 6 5	
1969	For 11 plate Standard Tonum Cells or 9 plate Demi-plante Cells	"	1400	"	0 6 0	
1970	Bottom Blocks, complete, as specified— For 15 plate Standard Tonum Cells ...	"	140	"	0 3 0½	
1971	For 11 plate Standard Tonum Cells, or 9 plate Demi-plante Cells	"	900	"	0 2 9	
1972	Positive Plates, complete, as specified ...	"	250	"	0 4 4	
1973	Negative Plates, complete, as specified	"	600	"	0 2 7	
	Positive Sections, complete, as specified—					
1974	For 21 plate Standard Tonum Cells ...	"	40	"	2 9 6	
1974A	For 15 plate Standard Tonum Cells ...	"	90	"	1 15 6	Barnet Glass Rubber Co. Ltd.
1974B	For 13 plate Demi-plante Cells ...	"	140	"	1 10 9	
1974c	For 11 plate Standard Tonum Cells ...	"	1600	"	1 6 0	
1974D	For 9 plate Demi-plante Cells ...	"	450	"	1 1 0	
*1975	Ebonite Accumulator Accessories— Ebonite Fork Separators ...	Vic. (partly) N.S.W.	200 doz.	doz.	0 3 3	
*1976	Ebonite Fork Separators Demi-plante...	"	20	"	0 4 9	Coates & Co. Pty. Ltd.
*1977	Ebonite Cell-testing Tubes ...	"	80	"	0 2 6½	
*1978	Accumulator Floats ...	"	400	"	0 7 0	Dunlop-Perdriau Rubber Co. Ltd.
	Ebonite Side Sheets—					
*1979	11-pt., 11½" x 5½" x 19 B.W.G. ...	Vic. (partly)	500	"	0 5 6	
*1980	15-pt., 11½" x 7¼" x 19 B.W.G. ...	"	40	"	0 6 9	
*1981	21-pt., 11½" x 11" x 19 B.W.G. ...	"	10	"	0 8 9	
	Ebonite Bottom Sheets—					
*1982	11-pt., 5¼" x 5½" x 19 B.W.G. ...	"	100	"	0 3 0	Dunlop-Perdriau Rubber Co. Ltd.
*1982A	15-pt., 7½" x 5½" x 19 B.W.G. ...	"	40	"	0 3 10	

ENGRAVING PERIODICAL TICKETS

7. The "Engravings" shall consist of the refilling of the existing name, etc., 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 Revenue in the Spencer-street Railway Building, and when engraved, they shall be delivered by the Contractor to the Auditor of Revenue. 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.

1983	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) ...	Vic.	1000	Engraving	0 1 8	Harold A. Jones
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GUM AND INKS.

Item 1991 does not cover the requirements of the Goods Superintendent.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
†1984	Gum, Liquid, in 10-gallon kegs; empty kegs will be returned to the Contractor at the Metropolitan Receiving Depot	Vict.	120 gals.	Imp. gal.	0 4 3	Spicers & Detmold Ltd.
†1985	Paste, Office in 10-oz. bottles...	N.S.W.	1400 bots.	bottle	0 0 4½	Davis Gelatine Pty. Ltd.
	Ink—					
†1986	Blue Black, in sound casks; empty casks will be returned to the Contractor at the Metropolitan Receiving Depot	Vict.	350 gals.	Imp. gal.	0 1 7½	Wiltshire's Pty. Ltd.
†1987	Blue Black, in bottles, Imperial quarts	"	450 bots.	bottle	0 0 11½	
†1988	Blue Black, Copying, Imperial pints ...	"	5 "	"	0 1 3	Spicers & Detmold Ltd.
†1989	Green, 12-oz. bottles ...	"	120 "	"	0 0 7	
†1990	Red, 6-oz. bottles ...	"	50 "	"	...	Nil
†1991	Violet, 12-oz. bottles ...	Vict.	40 "	bottle	0 0 7	Spicers and Detmold Ltd.
†1992	Metal Stamp, blue, 1-oz. bottles ...	"	40 "	"	0 0 5	C. G. Roeszler & Son
†1993	Metal Stamp, black, 1 oz. bottles ...	"	60 "	"	0 0 5	
†1994	Telegraph, 2-oz. bottles ...	"	30 "	"	...	Nil
	Ink. Indian, in 1 oz. bottles, with quill filler—					
†1995	Black ...	Vict. (partly)	300 "	bottle	0 0 9	H. Pudney & Co. Pty. Ltd.
†1996	Any other colors ordered ...	"	60 "	"	0 0 9	
†1997	I.R. Stamp, purple, in 2 oz. bottles (for Suburban Stations)	"	1750 "	"	0 0 4½	Wiltshire's Pty. Ltd.
†1998	" " black, in 2 oz. bottles (for Country Stations)	"		"	0 0 4½	
1999/2000	Nil					

BOTTLES, TUMBLERS, ETC.

*2001	Bottles, Glass, 7 oz., for Gum (J204) ...	Vict.	40 doz.	doz.	0 1 6½	Australian Glass Manufacturers Co. Ltd.
*2002	Bottles, Glass, 6 oz., for Ink (L424) ...	"	150 "	"	0 1 6½	
*2003	Bottles, Stoneware, 1 pint ...	"	50 "	"	0 5 3	The Hoffman Brick & Potteries Ltd.
*2004	Bottles, Stoneware, 1 quart ...	"	14 "	"	0 7 8	
*2005	Decanters, Glass ...	N.S.W.	14 "	"	2 14 0	Crown Crystal Glass Co. Ltd.
*2006	Tumblers, Glass, Unbadged, 10 oz. ...	"	1000 "	"	0 3 10	
*2007	Pots, Glazed, Earthenware, for paste (outside diameter to be exactly to sample exhibited)	"	8 "	"	...	Nil
2008-2009	Nil					

OFFICE REQUISITES

8. As regards Items 2014 to 2016, 2018, 2029-2034, 2038, 2041, 2042, 2044, 2046, 2047, 2049, 2050, 2054 and 2055, the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 40% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

The rates for Items 2020 to 2023, 2025, 2037, 2043, 2045 and 2053a are firm as regards exchange and conversion, and the rate for Item 2049 is firm as regards conversion.

† The rate for Item 2025 is subject to a discount of 10% for payment in approximately 7 days, and the rates for Items 2010 to 2013 and 2026 are subject to a discount of 2½% for payment in 30 days.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
*2010	Bands, I.R., Red Circular, extra strong, ½-gross boxes, No. 5 (5 assorted sizes)	Vict. (partly)	5 boxes	box	£ s. d. 10 3 7	Barnet Glass Rubber Co. Ltd.
†2011	Bands, Elastic, in 1 oz. boxes (nett weight)—No. 16, 2½" x ⅛" x ⅜" (20 grs. to lb.) ...	"	800 "	"	10 0 6	
†2012	No. 19, 3¼" x ⅛" x ⅜" (13 grs. to lb.)	"	100 "	"	10 0 6	
†2013	No. 33, 3¼" x ⅛" x ⅜" (7 grs. to lb.) ...	"	180 "	"	10 0 5½	
†2014	Binders, Paper—No. 642	U.K.	300 gross	gross	0 1 10	Sands & McDougall Pty. Ltd.
†2015	No. 644	"	100 "	"	0 3 1	
†2016	Bodkins, with eye, Sample No. 2	"	120 "	each	0 1 3	
†2017	Bowls, glass, 4" at top, with sponge	N.S.W. (partly)	100	"	0 0 10½	Robertson & Mullens Ltd.
†2018	Clips, Bulldog, 2½"	U.K.	140 doz.	dozen	10 1 7½	Sands & McDougall Pty. Ltd.
*2019	Clips, Wire, diamond shape, for labels	Vict.	350,000	1000	0 4 6	Greer & Ashburner
†2020	Crayons, Pencil, solid, "Cosmic, L 3," 4½"—Blue	U.K.	72 doz.	dozen	0 1 3½	Australian Stationery Co.
†2021	Crimson	"	32 "	"	0 1 9	
†2022	Green	"	12 "	"	0 1 3½	
†2023	Yellow	"	440. "	"	0 1 3½	
†2024	Crayons, School, White, in boxes of 1 gross	Vict.	250 boxes	box	0 1 2½	Robertson and Mullens Ltd.
†2025	Cylinders, Dictaphone, without cartons in case lcts of 100	U.S.A.	200	100	15 0 0	Dictaphone Co. (Aust.) Ltd.
†2026	Erasers, Combined Ink and Pencil, small	Vict.	5 doz.	doz.	10 1 4½	Barnet Glass Rubber Co. Ltd.
†2027	Erasers, I.R., Pencil, small	"	240 "	"	0 1 4	Sands and McDougall Pty. Ltd.
†2028	Erasers, I.R., Pencil, double bevel, "Ever-green"	"	70 "	"	0 1 5½	Dunlop Perdrigall Rubber Co. Ltd.
† {	Fasteners, Paper, ordinary, in boxes of 1 gross—S. 00 "Premier"	U.K.	2 boxes	box	0 0 3½	Spicers and Detmold Ltd.
	2030 S. 0	"	2 "	"	0 0 3½	
	2031 S. 1	"	120 "	"	0 0 3½	
	2032 S. 3	"	600 "	"	0 0 4½	
	2033 S. 6	"	250 "	"	0 0 7½	
	2034 R. 1	"	350 "	"	0 0 3½	

† Less 10% payment 7 days

† Less 2½% payment 30 days

OFFICE REQUISITES—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
*2035	Figures, rubber, in sets, in wooden holders	Vict.	80 sets	set	£ s. d. 0 3 3	C. J. Roeszler & Son
*2036	Files, Foolsap, clip ...	"	200	each	0 1 5	Sands & McDougall Pty. Ltd.
†2037	Gum, Art, 2½" x 1½" x 1½" ...	U.S.A.	30 doz.	doz.	0 3 1½	R. E. Mustow
†2038	Holders, Pen, small, "Short taper 3860" ...	U.K.	45 gross	gross	0 5 3	Spicers & Detmold Ltd.
†2039	Inkstands, Glass, round, 3½", with fixed metal top	N.S.W.	300	each	0 1 2½	Sands & McDougall Pty. Ltd.
†2040	Pads, Blotting, 23" x 18", with leather corners	Vict.	50	"	0 2 11	R. E. Mustow
	Pens, Nibs, in boxes of 1 gross—					
†2041	No. 9 Steel, "Bakfin" ...	U.K.	1200 boxes	box	0 0 11½	Arthur J. Wallace
†2042	"Chronicle" ...	"	350 "	"	0 2 5	Sands & McDougall Pty. Ltd.
†2043	Brandeurs, "Herald," No. 404 ...	"	80 "	"	0 2 5	R. E. Mustow
†2044	"Bak-Fin," Ideal No. 23 ...	"	200 "	"	0 3 3	Arthur J. Wallace
†2045	"Gillots 303" ...	"	20 "	"	0 4 6	R. E. Mustow
†2046	"Gillots 404F" ...	"	10 "	"	0 2 5	Sands & McDougall Pty. Ltd.
†2047	Pens, Manifold, "Bak-Fin, 94" ...	"	100 "	"	0 3 9	Arthur J. Wallace
†2048	Pins, Best, Drawing, small, in boxes of 1 gross	"	8 "	"	...	Nil
†2049	Pins, Best, Drawing, medium, No. 4, in boxes of 1 gross, "Diana"	Germany	120 "	box	0 0 7	} Spicer & Detmold Ltd.
†2050	Pins, Best London, mixed, in packets of 1 oz., D. F. Taylor & Co.	U.K.	700 lb.	lb.	0 2 11	
†2051	Rulers, Flat, 15", brass edge ...	Vict.	250	each	0 0 4¾	
†2052	Sponges, for 4" bowls ...	"	450	"	0 0 3¾	} Robertson & Mullens Ltd.
†2053	Staples, Wire, No. 1A, for Hotchkiss Machines, "Acorn"	"	200,000	1000	0 1 1½	
†2053A	Staples, wire, "Genuine Hotchkiss" No 1A	U.S.A.		"	0 1 4	
†2054	Staples, Wire, for Acme No. 2 Machines, "McGill's"	U.K.	300,000	"	0 1 9	} Robertson & Mullens Ltd.
†2055	Staples, Wire, for No. 4a Machines; No. 2 Staples, 2¼" shanks, "McGill's"	"	200,000	"	0 1 7¾	
†2056	Staples, for Bostitch or Star Machines, as ordered	"	200,000	"	...	To be purchased under item 2053A
†2057	Wax, Sealing, Red, 7¾" long ...	Vict.	70 lb.	lb.	0 1 5½	Sands & McDougall Pty. Ltd.
†2058-2061	Nil					

DRAWING PAPERS, PAPER BAGS, ETC.

8. As regards Items 2068, 2069 and 2071, the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during contract period, the difference calculated on 40% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T.T. Exchange is effective as notified by the Commonwealth Bank.

† As regards Items 2064 and 2067, rates are subject to 2½% discount for payment within 30 days.

As regards Items 2062, 2064, 2065, 2067 and 2070, the rates are firm as regards Conversion and/or Exchange.

DRAWING PAPERS, PAPER BAGS, ETC.—continued.

[illegible]

† Less 2½%—payment 30 days.

DRAWING PAPERS, PAPER BAGS, ETC.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
*2091	Bags, Coin, 5" x 7"	Vict.	15,000	1000	0 4 6	Arthur J. Wallace
	Boxes, Cardboard—					
*2092	7½" x 4" x 2½" inside	"	50 doz.	doz.	0 1 0	The Modern Printing Co. Pty. Ltd.
†2093	Cards, Gent.'s Visiting, round or square cornered, as ordered (boxes of 50's) "Rajah"	Vict. (partly)	100 boxes	box	0 0 2½	Spicers & Detmold Ltd.
	Envelopes—					
†2094	Glazed Manila, Pocket, 2¾" x 5¼" ...	Vict.	10,000	1000	0 3 5	Sands & McDougall Pty. Ltd.
*2095	First Quality, White, Note, 5¾" x 3¼" "No. 90"	Vict. (partly)	40,000	"	0 3 7	The Modern Printing Co. Pty. Ltd.
†2096	Pence, M.G. Manila, 3" x 2¾" ...	Vict.	40,000	"	0 3 7	Sands & McDougall Pty. Ltd.
	Rolls of Paper—					
†2097	Burroughs Adding Machine Paper, 3⅞", in 100 yard rolls	Vict. (partly)	500 rolls	roll	0 0 6¼	Spicers & Detmold Ltd.
†2098	Barrett's Adding Machine, 2⅞" wide, in 100 yard rolls	"	40 "	100 rolls	2 8 6	Arthur J. Wallace
†2099	Paper, Brown, Gummed Adhesive, 1" wide, 800' to roll	Vict.	250 "	each	0 0 11	Spicers & Detmold Ltd.
†2100	White News, 12" wide x 50 yards long ...	Vict. (partly)	900 "	"	0 0 7	Arthur J. Wallace
*2101	Tabulating Rolls for Powers Machine	"	900 "	"	0 0 11½	Spicers & Detmold Ltd.
†2102	Tape, Telegraph Instrument, ½" white, in approximately 450 yard rolls	Vict.	650 lb.	lb.	0 0 7½	Robertson & Mullens Ltd.
2103-2107	Nil.					

PRINTING AND WRITING PAPERS, ETC.

(Period 1st October, 1934—30th September, 1935.)

7. The Printing Papers shall be equal in quality, weight, and color 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.

8. The Writing Papers shall be equal in quality, weight and color 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.

9. As regards Item No. 2125, the Corporation undertakes to order during the contract period the full quantity shown opposite to this item, and delivery will be taken of the full quantity under this item in two deliveries as arranged by the Corporation.

As regards the imported items, the rates include Telegraphic Transfer Exchange between Australia and London at 25¼%, and if this rate of Exchange be varied during the Contract period, the difference calculated on 66⅔% of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T. T. Exchange is effective as notified by the Commonwealth Bank. In the case of Items 2125 and 2149 the difference shall be calculated on 50% of the Contract rates.

All rates are firm as regards Conversion.

Items 2125 and 2149 are subject to adjustment for variation in sea freight rates, documentary evidence to be produced, showing rates paid, etc.

Sufficient time to be allowed to import stocks under Items 2125 and 2149 to meet initial orders.

PRINTING AND WRITING PAPERS, ETC.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Printing Papers—				£ s. d.	
†2108	Quad. Crown, News, 44½ lb. ...	Canada	260 reams	ream	0 5 11	Gordon & Gotch (A'sia) Ltd.
†2109	„ M.G. Litho., 70 lb. ...	Sweden	60 „	„	1 1 10	Alex. Cowan & Sons Ltd.
†2110	„ White, 48 lb. "Sawku" ...	U.K.	430 „	„	0 12 1	Wiggins, Teape & Alex. Pirie (Export) Ltd.
†2111	„ Sup. Cal. 72 lb. ...	...	Nil	„	...	...
†2112	Double Royal, Kraft Brown, 40 lb. ...	Vict. (partly)	500 „	„	0 10 5	Australian Paper Manufacturers Ltd.
†2113	„ Blue 48 lb. ...	...	Nil	„	...	...
†2114	„ Cerise, 48 lb. ...	Finland	60 „	„	0 10 11	} Gordon & Gotch (A'sia) Ltd.
†2115	„ Green, 48 lb. ...	„	85 „	„	0 10 11	
†2116	„ Red, 48 lb. ...	„	50 „	„	...	Nil
†2117	„ Salmon, 48 lb. ...	„	120 „	„	0 10 11	} Gordon & Gotch (A'sia) Ltd.
†2118	„ Yellow, 48 lb. ...	„	130 „	„	0 10 11	
†2119	„ Pink, 48 lb. ...	„	45 „	„	0 10 11	
†2120	„ White, 40 lb. "Sawku" ...	U.K.	900 „	„	0 10 1	} Wiggins, Teape & Alex. Pirie (Export) Ltd.
†2121	„ White, 50 lb. "Sawku" ...	„	230 „	„	0 12 7	
†2122	„ News, 37 lb. ...	Canada	580 „	„	0 4 11½	Gordon & Gotch (A'sia) Ltd.
†2123	„ M.G. 80 lb. ...	Sweden	20 „	„	1 5 0	Alex. Cowan & Sons Ltd.
†2124	Quad. Foolscap, White, 37 lb. "Sawku" ...	U.K.	1000 „	„	0 9 4	Wiggins, Teape & Alex. Pirie (Export) Ltd.
†2125	„ Yellow, 40 lb. ...	Scand.	150 „	„	0 8 5	Arthur J. Wallace
†2126	Double Medium, Cerise, 80 lb. ...	Sweden	4 „	„	1 0 0	} Alex. Cowan & Sons Ltd.
†2127	„ Yellow, 80 lb. ...	„	2 „	„	1 0 0	
†2128	„ Salmon, 80 lb. ...	„	4 „	„	1 0 0	} Nil
†2129	„ Blue, 80 lb. ...	...	2 „	„	...	
†2130	„ Old Gold, 60 lb. ...	...	...	„	...	...
†2131	Glazed Cap, 36" x 24", 45 lb. ...	N.S.W. (partly)	60 „	„	0 15 0	} Australian Paper Manufacturers Ltd.
†2132	Smooth Cartridge, 20" x 25", 40 lb. ...	Vict. (partly)	120 „	„	0 17 6	
†2133	Double Demy, Yellow, 40 lb. ...	Finland	70 „	„	0 9 1	} Gordon & Gotch (A'sia) Ltd.
†2134	„ Green, 40 lb. ...	„	20 „	„	0 9 1	
†2135	Double Demy, Pink, 40 lb. ...	„	40 „	„	0 9 1	
†2136	„ Salmon, 40 lb. ...	„	12 „	„	0 9 1	
†2137	„ News, 29 lb. ...	Canada	650 „	„	0 3 10½	} Wiggins, Teape & Alex. Pirie (Export) Ltd.
†2138	„ White, 40 lb. "Sawku" ...	U.K.	320 „	„	0 10 1	
†2139	Demy, White, Gummed, 1st quality, 500's, non-curling "Don" ...	„	6 „	„	1 3 3	} Wiggins, Teape & Alex. Pirie (Export) Ltd.
†2140	Demy, White, Gummed, 2nd quality, 500's, non-curling "Dee" ...	„	180 „	„	0 16 10	
†2141	Double Crown, Manilla, Carte, 20" x 30", 100 lb. ...	Vict. (partly)	100 „	„	1 17 6	Australian Paper Manufacturers Ltd.

PRINTING AND WRITING PAPERS, ETC.—continued.

Item No.	Description	Country of Manufre	Estimated Requirements	Rate per	Rate	Name of Contractor
	Printing Papers—continued				£ s. d.	
†2142	Double Crown, White Cap., 7-8 lb. ...	...	350 reams	ream	...	Nil
†2143	Double Crown, 19" x 29" clear, Grease-proof, 15-17 lb.	Norway	140 "	"	0 4 7	Spicers & Detmold Ltd.
†2144	Paper, Striped Scaling or Brown Cap, 19" x 29", 8 lb.	...	6 "	...	...	Nil
	White Art, 1st Quality, 500's—"Perfect"					
†2145	Quad. Crown, 72 lb., 84 lb., 100 lb., or 120 lb., as ordered	U.K.	100 "	lb.	0 0 8½	Wiggins, Teape & Alex. Pirie (Export) Ltd.
†2146	Double Royal, 60 lb., 70 lb., 84 lb., 90 lb., 100 lb., or 110 lb., as ordered	"	30 "	"	0 0 8½	
†2147	Double Medium, 56 lb., 60 lb., 70 lb., 80 lb., 100 lb. or 110 lb., as ordered	"	140 "	"	0 0 8½	
	Lithographic Papers—					
†2148	51" x 31", 160 lb. ...	"	2 tons	"	0 0 3½	Alex. Cowan & Sons Ltd.
	Writing Papers—					
†2149	Double Large Post, Bank, White, 22 lb.	Scand.	90 reams	ream	0 7 4	Arthur J. Wallace
†2150	" White, 36 lb. ...	Norway	30 "	"	0 12 0	Spicers & Detmold Ltd.
†2151	" White, 46 lb. "Inverdon"	U.K.	90 "	"	1 1 10	Wiggins, Teape & Alex. Pirie (Export) Ltd.
†2152	" Azure, 46 lb. "Inverdon"	"	45 "	"	1 1 10	
†2153	Double Medium Bond, White, 36 lb. ...	Norway	300 "	lb.	0 0 4½	Alex. Cowan & Sons Ltd.
†2154	" Blue, 36 lb. ...	"	15 "	"	0 0 4½	
†2155	" Green, 36 lb. ...	"	10 "	"	0 0 4½	
†2156	" Pink, 36 lb. ...	"	20 "	"	0 0 4½	
†2157	" Yellow, 36 lb. ...	"	20 "	"	0 0 4½	
†2158	Double Medium, Azure, 68 lb. "Huntingtower"	U.K.	20 "	ream	2 2 0	Wiggins, Teape & Alex. Pirie (Export) Ltd.
†2159	Quad. Foolscap, Bank, 15 lb. (Manifolding)	...	20 "	...	...	Nil
†2160	Quad. Foolscap, Azure Laid, 60 lb. "Huntingtower"	U.K.	35 "	"	1 17 0	Wiggins, Teape & Alex. Pirie (Export) Ltd.
†2161	" Azure, 48 lb. "Inverdon"	"	35 "	"	1 2 8½	
†2162	Quad. Foolscap, White, 48 lb., Wove "Inverdon"	"	900 "	"	1 2 8½	
†2163	Quad. Foolscap, Duplicating, White, 48 lb., hard-sized	Vict. (partly)	1000 "	"	1 1 0	Australian Paper Manufacturers Ltd.
†2164	Quad. Foolscap, Duplicating, 48 lb., hard-sized, assorted light tints	...	40 "	...	...	Nil
†2165	Quad. Foolscap, Bank, White, 28 lb. ...	Vict. (partly)	1600 "	"	0 12 3	Australian Paper Manufacturer Ltd.
†2166	Quad. Foolscap, Bank, Cerise, 28 lb. ...	"		"	0 12 3	
†2167	Double Royal Bank, White, 30 lb. ...	"		"	0 13 1½	
†2168	Double Demy Bank, White, 25 lb. ...	"		"	0 10 11½	
†2169	Double Demy Old Gold, 25 lb. ...	"	5 "	"	0 10 11½	Gordon & Gotch (A'sia) Ltd.
†2170	Double Foolscap, Blue, 24 lb. "Strathmerton"	U.K.		"	0 16 0	

PRINTING AND WRITING PAPERS, ETC.—continued.

Item No.	Description	Country of Manuf're.	Estimated Requirements	Rate per	Rate.	Name of Contractor.
					£ s. d.	
	Writing Papers—continued					
†2171	Double Foolscap, C.L. 28 lb., "Conqueror"	U.K.	90 rms.	ream	1 12 8	Wiggins, Teape & Alex. Pirie (Export) Ltd.
†2172	Double Foolscap, 28 lb., "Abermill Bond"	"	35 "	"	1 2 8	
†2173	Double Demy Azure, 48 lb. "Huntingtower"	"	20 "	"	1 9 9	
†2174	Royal, Azure, 42 lb. "Huntingtower"	"	10 "	"	1 9 8	
†2175	Azure Laid, 17½" x 40", guillotine trimmed all sides (Quad. Foolscap Azure, 56 lb. substance)	Vict. (partly)	430 "	"	1 1 6	Australian Paper Manufacturers Ltd.
	Blotting Paper—					
†2176	Demy, White, 36 lb. ...	...	80 "	...	...	Nil
†2177	Demy, White, 48 lb., 1st quality, folded or flat. as ordered "Quicksorb"	U.K.	30 "	"	1 15 10	Wiggins, Teape & Alex Pirie (Export) Ltd.
2178-2188	Nil					

CARBON PAPER.

7. As regards Items 2197 to 2200, the carbon paper shall be capable of taking 5 clear copies and be of durable quality.

8. As regards Items 2189 and 2190 the rates include Telegraphic Transfer Exchange between Australia and London at 25½%, and if this rate of Exchange be varied during the contract period, the difference calculated on 50 % of the contract rate shall be to the Corporation's account, and shall apply to any stores that may be ordered after the expiration of a period of two months from the date the amended rate of T. T. Exchange is effective as notified by the Commonwealth Bank.

	Paper, Carbon, blue, extra rich, two sides, 20 lb.—"Swallow"					
†2189	Demy Folio, 17½" x 11¼", Pencil ...	U.K.	36 reams	ream	1 1 3	John Withers & Son Pty. Ltd.
†2190	Foolscap Folio, 13½" x 8½", Pencil ...	"	1 "	"	0 12 6	
†2191	Paper, Carbon Billing blue, Brief, 16" x 13", in boxes of 100 sheets "Hall Mark"	Victoria (partly)	180 boxes	box	0 3 0	Ramsay & Hall Pty. Ltd.
	Paper, Carbon, Pen—"Hall Mark"					
†2192	Foolscap 4-to, 50 sheets per box ...	"	60 "	"	0 0 10	
†2193	17½" x 7½" ...	"	4000 sheets	100 sheets	0 2 2	
†2194	17½" x 10" ...	"	4000 "	"	0 2 8	
†2195	18½" x 16½" ...	"	5000 "	"	0 6 0	
	Paper, Carbon, Pencil—"Pinnacle"					
†2196	Foolscap Folio, 13" x 8"	N.S.W. (partly)	120,000 "	"	0 1 2	Columbia Ribbon & Carbon Co. (Aust.)
	Paper, Carbon, Pencil, blue, one-sided, to be coated on 9 lb. paper—					
†2197	24" x 4½", to take 5 copies "Pinnacle"	"	8000 "	"	0 1 7	
†2198	19" x 9" " " " "	"	2500 "	"	0 2 3	
†2199	18" x 5½" " " " "	"	16,000 "	"	0 1 7	
†2200	17" x 12½" " " " "	"	5000 "	"	0 2 3	
†2201	27" x 5" "Pinnacle" ...	"	800 "	"	0 1 9	

CARBON PAPER—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Paper, Carbon, Pencil, blue, one-sided to be coated on 9 lb. paper—continued				£ s. d.	
†2202	15" x 5" "Hall Mark" ...	Victoria (partly)	3000 sheets	100 sheets	0 1 3	Ramsay & Hall Pty. Ltd.
2203	15" x 9" "Pinnacle" ...	N.S.W. (partly)	5000 "	"	0 2 1	
2204	15" x 8" " " ...	"	5000 "	"	0 2 0	
†2205	13" x 8" " " ...	"	50,000 "	"	0 1 4	Columbia Ribbon & Carbon Co. (Aust.)
2206	13" x 5" " " ...	"	20,000 "	"	0 0 11	
2207	12" x 5" " " ...	"	150,000 "	"	0 0 11	
†2208	11½" x 11½" "Hall Mark" ...	Victoria (partly)	5000 "	"	0 2 2	Ramsay & Hall Pty. Ltd.
2209	11" x 9" "Pinnacle" ...	N.S.W. (partly)	10,000 "	"	0 1 10	
2210	11" x 6" " " ...	"	12,000 "	"	0 1 0	
	Paper, Carbon, Typewriting, black (corner to be cut off each sheet)—"Pinnacle"					
†2211	Foolscap Folio, 13" x 8", to produce up to 20 copies	"	42,000 "	"	0 1 4	
†2212	Foolscap Folio, 13" x 8", to produce up to 6 copies	"	140,000 "	"	0 1 2	Columbia Ribbon & Carbon Co. (Aust.)
†2213	Foolscap Folio, 16" x 13", to produce up to 20 copies	"	5000 "	"	0 2 10	
†2214	Foolscap Folio, 16" x 13", to produce up to 6 copies	"	18,000 "	"	0 2 5	
	Paper, Carbon, Typewriting—					
†2215	17½" x 10", Black, to take 3 copies, "Pinnacle"	"	10,000 "	"	0 2 2	
2216	17½" x 7½", Black, to take 3 copies, "Pinnacle"	"	700 "	"	0 1 10	
†2217	12" x 12", Blue, to take 3 copies, "Hall Mark"	Victoria (partly)	6000 "	"	0 2 6	Ramsay & Hall Pty. Ltd.
†2218	8½" x 10½", Black, to take 3 copies, "Pinnacle"	N.S.W. (partly)	6000 "	"	0 1 2	Columbia Ribbon & Carbon Co. (Aust.)
†2219	10" x 4", Black, for Addressograph Machine	...	5000 "	"	...	Nil
2220	Nil					

GALVANIZED IRON

7. SPECIFICATION.

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.

8. Orders will be placed in case lots and in minimum quantities of 6 tons, made up of one or more items and 14 days from date of order allowed for delivery to permit of importation.

Any purchases considered necessary by the Comptroller of Stores from stock in Melbourne, to meet urgent requirements, shall not be regarded as an infringement of this Contract.

GALVANIZED IRON—continued

The rates do not include wharfage. The material shall be consigned on the Bill of Lading to the Comptroller of Stores of the Victorian Railways, to enable the Corporation to obtain exemption of wharfage. Copies of orders are to be furnished to the Shipping Clerk.

The rates shall be varied 18s. 6d. per ton for every rise or fall of £1 per ton or pro rata as the case may be in "Lysaght's" current price list of May, 1934. It shall be the Contractor's obligation within the meaning of clause 21 of the conditions of Contract to advise the Corporation of any amendment to Lysaght's price list within seven days of the receipt of same by the Contractor. The amended rates shall apply to all undelivered material on date of alteration to price list.

Name of Manufacturer—John Lysaght (Aust.) Ltd.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Sheet, Corrugated, 26 gauge—"Orb"				£ s. d.	
2221	5', 6', 7' or 8' long, as ordered	N.S.W.	15 tons	ton	22 9 9	Edward Duckett & Sons
2222	9' long	"	3 "	"	22 19 6	
2223	10' long	"	2 "	"	23 9 6	
2224	6' or 7' long, as ordered, 1" pitch	"	2 "	"	23 17 9	
	Sheet, Corrugated, 24 gauge—"Orb"					
2225	5', 6', 7' or 8' long, as ordered	"	120 "	"	21 1 11	
2226	9' long	"	70 "	"	21 11 6	
2227	10' long	"	2 "	"	22 1 6	
	Sheet, Corrugated, 20 gauge—"Orb"					
2228	9' long	"	2 "	"	21 15 0	
2229	10' long	"	2 "	"	22 5 0	
	Sheet, Plain, 28 gauge—"Queen's Head"					
2230	6' long x 2', 2' 6" or 3' wide, as ordered	"	5 "	"	25 10 3	
	Sheet, Plain, 26 gauge—"Queen's Head"					
2231	6' long x 2', 2' 6" or 3' wide, as ordered	"	15 "	"	24 2 5	
	Sheet, Plain, 24 gauge—"Queen's Head"					
2232	6' long x 22", 2', 2' 6" or 3' wide, as ordered	"	100 "	"	22 14 5	
	Sheet, Plain, 22, 20, 18 or 16 gauge, as ordered—"Queen's Head"					
2233	6' long x 2', 2' 6", or 3' wide, as ordered	"	100 "	"	22 14 5	
2234-2238	Nil					

YELLOW BRASS CASTINGS (FOR LOCKS)

7. SPECIFICATION—

The Castings shall be supplied with runners and burrs removed and shall be true to pattern, sound, clean, smooth and free from any defects, blow holes, etc. The yellow brass castings shall contain 65 per cent. copper, 33 per cent. zinc and 2 per cent. lead.

All patterns shall be supplied by the Corporation and shall be delivered to the Contractor at the Metropolitan Receiving Depot, Spencer-street. All such patterns shall be returned in good order and condition, together with castings, to the Metropolitan Receiving Depot, Spencer-street, Melbourne, by and at the expense of the Contractor.

In the event of the non-return of any of the patterns, or of their being damaged, the cost of replacement or repair shall be paid by the Contractor, or may be deducted from any money due to the Contractor by the Corporation.

YELLOW BRASS CASTINGS (FOR LOCKS)—continued

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Castings, Yellow Brass (Rough), to pattern supplied by the Corporation—				£ s. d.	
*2239	V.R. Padlock, 2", to pass. ...	Vict.	2500 sets	set	0 0 9	James Coppell Lee Pty. Ltd.
*2240	V.R. Padlock, 2", to differ ...	"	1000 "	"	0 0 9	
*2241	Switch Padlock ...	"	800 "	"	0 0 11	
*2242	S.S. Padlock ...	"	1000 "	"	0 0 5	
2243	Nil					

CASTINGS, PISTON

7. The Contractor shall, during the currency of the Contract, furnish the Comptroller of Stores with the address or addresses of the place or places at which the Castings are 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 Castings ordered while in process of manufacture.

8. The Castings are to be clean, sharp, free from surface scale, shell, cold shuts, blow holes, honeycomb, cinder, or any other imperfections, and are to be sound in every respect, and thoroughly close in grain.

9. The whole of the patterns and coreboxes, etc., shall be provided by and at the sole expense of the Contractor, and the cost of the same shall be deemed to be included in the rate set opposite to each item.

10. **Sample Pistons.**—Samples of finished pistons may be inspected on application to the Water Supply Engineer, Room 204, Railway Offices, Spencer-street, Melbourne.

11. **Inspection and Rejection.**—Castings are liable to be rejected on delivery, or at any time during the process of machining, and any such castings rejected on account of faulty material or inequalities in walls of castings, etc., shall be replaced by the Contractor by other castings, free of charge.

12. **Quantities.**—The piston castings shall be ordered by the Corporation in lots of not less than—

Item 2244—50 No.

Item 2245—20 No.

Item 2246—25 No.

Item 2247—20 No.

13. **Finish.**—The Castings shall be free from sand and all defects and finished in the annealed and sandblasted condition. The heads of pistons shall be machine centred to ensure uniform thickness in skirt.

14. **Delivery.**—Delivery will be taken at the Metropolitan Receiving Depot, Spencer-street, Melbourne.

2244	Castings, K.S. Type piston casting app. 3 $\frac{1}{4}$ " dia. x 4 $\frac{1}{2}$ " skirt for 2 cycle water cooled engine	Vict.	150	each	0 5 3	C.B.D. Piston Co.
2245	Castings K Type piston casting, app. 4 $\frac{1}{2}$ " dia. x 6" skirt for 2 cycle water cooled engine	"	100	"	0 8 6	
2246	Castings, Inspection Type B piston casting, app. 3 $\frac{3}{8}$ " dia. x 3" skirt for single cylinder air cooled engine	"	150	"	0 3 4	
2247	Castings, Sheffield 40B Type piston casting, app. 4 $\frac{1}{2}$ " dia. x 5" skirt for 4 cycle twin opposed air cooled engine	"	35	"	0 7 0	
2248	Nil					

CARBON STEEL CASTINGS

7. 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.

8. 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 2249 to 2275c in this Schedule must include the cost of the said Scrap.

Mild Steel, small and medium	...	£1-15-0 per ton
Steel Tyres	...	£2-0-0 per ton
Rails and Fishplates	...	£2-0-0 per ton

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 Comptroller of Accounts 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.

SPECIFICATION FOR CARBON STEEL CASTINGS.

9. **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 0·07 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.

10. **Heat Treatment.**—(a) All castings except where specified shall be so heat treated as to give the physical properties called for.

(b) For the purpose of determining the quality of heat treatment, 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 heat treated, he may, at his option, require the casting to be reheat treated.

(c) If, after heat treating or reheat treating, any casting is so much out of gauge, as to require heating to bring it within gauge limits, it shall be reheat treated 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.

11. **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 Nos. 2253 to 2271c 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.

(e) All rivet and bolt holes in castings, cast from patterns leaving their own cores, shall not be more than $\frac{1}{8}$ " over or $\frac{1}{8}$ " under the dimensions of the holes shown on the drawings.

CARBON STEEL CASTINGS—continued.

12. **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, etc., 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.

13. **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 in. high. All stampings shall be so stamped that they will be legible after the casting has been annealed.

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

15. **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 reheat treated, as provided in clause (10) of this Specification, unless specific permission to the contrary is given by the Comptroller of Stores.

16. **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.

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

If any test specimen shows defective machining or discloses flaws, it may be discarded, in which case another specimen from the same casting or group of castings shall be substituted.

Should a tensile test piece break outside the middle half of its gauge length, the test may, at the manufacturer's option, be discarded, and another test made from the same heat treatment charge.

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

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

General Castings.—Impact Test (Grades B and C). One impact test shall be taken from each batch of castings heat treated together, or if there is more than one cast represented in such batch, then one impact test shall be taken from each cast in the batch.

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

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

GRADE A.

For Castings with wearing surfaces.

Ultimate tensile breaking strength, tons per sq. in. minimum	...	35.
Elongation, per cent., minimum	...	10.

GRADES B. and C.

		Grade B.	Grade C.
Yield point, tons per sq. in., minimum	...	16	13.5
Elongation, per cent., minimum	...	714	714
		Ten. Str.	Ten. Str. (Ult. tons)
Elongation, per cent., minimum	...	22	24
Reduction of areas, per cent., minimum	...	30	35

In the case of Grades B and C, the ultimate tensile strength shall be reported.

(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.

CARBON SHEET CASTINGS—continued.

19. **Cold Bend Test.**—Except in the case of Grade A Castings, a test piece 9" long turned to 1" diameter, must withstand, without fracture being bent cold through an angle of 90 degrees round a bar $2\frac{1}{2}$ " in diameter.

20. **Impact Test.**—A standard "Izod" three-notch impact test piece, machined to the form and dimensions of B.S.S. 131-1920, shall, on being tested, average not less than 20 ft. lb., and no single notch less than 15 feet lb. Alternatively, a three-notch impact round specimen, as provided for in Appendix I. of B.S.S. 5005-1924, may be used. At the time of testing, the "Izod" test bar shall be at a temperature of between 65° F. and 75° F.

21. **Additional Tests before Rejection.**—(a) Should a test piece first selected by the Receiving Officer not fulfil the test requirements, two additional tests of the same kind from the same casting or group of castings shall be made. Should one of the additional test pieces fail to fulfil the specified test requirements, the castings shall be rejected.

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

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

General Castings (Grades B and C).—The impact test shall be repeated on pieces cut from the same batch or cast.

(c) Frame stays.—Tensile test pieces shall be taken from two or more castings from the same cast, or two more bend tests shall be taken from the test pieces cut from the same lump. The impact test shall be repeated on pieces cut from the same casting.

22. **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 Clause 23, 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.

23. **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 labor 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.

24. **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 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, or should there be any serious alteration of the monetary system of financial conditions during the currency of the Contract the Contract rates shall be subject to amendment as may be determined by the Comptroller of Stores or Contract cancelled.

The Corporation has the right to satisfy itself that the Contract rates are equitable by an inspection of the Contractor's books, and the right to determine the Contracts forthwith if in its opinion the Contract rates are not fair and reasonable.

Provided satisfactory service is rendered and it is found convenient to do so, orders should be placed in the following proportions. Storekeeper, Newport Loco., to arrange.

Chas. Ruwolt Pty. Ltd.	... 45 per cent.
Steel Co. of Aust. Pty. Ltd.	... 27 per cent.
Thompson's Eng. & Pipe Co. Ltd.	... 18 per cent.
Davies & Baird Pty. Ltd.	... 10 per cent.

CARBON STEEL CASTINGS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Castings, Carbon Steel (Grade "A," "B," or "C," as ordered and as specified—				£ s. d.	
2249	Weights under 2 lb. ...	Vict.	3 tons	ton	85 0 0	Chas. Ruwolt Pty. Ltd.
2249A	Weights under 2 lb. ...	"		"	85 0 0	Steel Co. of Aust. Pty. Ltd.
2249B	Weights under 2 lb. ...	"		"	85 0 0	Thompson's Eng. & Pipe Co. Ltd.
2249C	Weights under 2 lb. ...	"		"	85 0 0	Davies & Baird Pty. Ltd.
2250	Weights 2 lb. and up to 14 lb. ...	"	50 "	"	56 0 0	Chas. Ruwolt Pty. Ltd.
2250A	Weights 2 lb. and up to 14 lb. ...	"		"	56 0 0	Steel Co. of Aust. Pty. Ltd.
2250B	Weights 2 lb. and up to 14 lb. ...	"		"	56 0 0	Thompson's Eng. & Pipe Co. Ltd.
2250C	Weights 2 lb. and up to 14 lb. ...	"		"	56 0 0	Davies & Baird Pty. Ltd.
2251	Weights over 14 lb. and up to 1 cwt. ...	"	600 "	"	44 0 0	Chas. Ruwolt Pty. Ltd.
2251A	Weights over 14 lb. and up to 1 cwt. ...	"		"	44 0 0	Steel Co. of Aust. Pty. Ltd.
2251B	Weights over 14 lb. and up to 1 cwt. ...	"		"	44 0 0	Thompson's Eng. & Pipe Co. Ltd.
2251C	Weights over 14 lb. and up to 1 cwt. ...	"		"	44 0 0	Davies & Baird Pty. Ltd.
2252	Weights over 1 cwt. ...	"	150 "	"	42 0 0	Chas. Ruwolt Pty. Ltd.
2252A	Weights over 1 cwt. ...	"		"	42 0 0	Steel Co. of Aust. Pty. Ltd.
2252B	Weights over 1 cwt. ...	"		"	42 0 0	Thompson's Eng. & Pipe Co. Ltd.
2252C	Weights over 1 cwt. ...	"		"	42 0 0	Davies & Baird Pty. Ltd.
	Castings, Carbon Steel (Grade "A," moulded within the limits of gauges, and as specified—					
	(a) Weights over 14 lb. and up to 1 cwt.—					
2253	Follower Blocks to V.R. Drawings Nos. 7611.5 or 7611.6	"	100 "	"	44 0 0	Chas. Ruwolt Pty. Ltd.
2253A	Follower Blocks to V.R. Drawings Nos. 7611.5 or 7611.6	"		"	44 0 0	Steel Co. of Aust. Pty. Ltd.
2253B	Follower Blocks to V.R. Drawings Nos. 7611.5 or 7611.6	"		"	44 0 0	Thompson's Eng. & Pipe Co. Ltd.
2253C	Follower Blocks to V.R. Drawings Nos. 7611.5 or 7611.6	"		"	44 0 0	Davies & Baird Pty. Ltd.
	(b) Weights over 1 cwt.—					
2254	Engine Striking Plates to V.R. Drawings Nos. S. & X. 63.5, 5191.2 or 5297.3	"	10 "	"	50 0 0	Chas. Ruwolt Pty. Ltd.
2254A	Engine Striking Plates to V.R. Drawings Nos. S. & X. 63.5, 5191.2 or 5297.3	"		"	50 0 0	Steel Co. of Aust. Pty. Ltd.
2254B	Engine Striking Plates to V.R. Drawings Nos. S. & X. 63.5, 5191.2 or 5297.3	"		"	50 0 0	Thompson's Eng. & Pipe Co. Ltd.
2254C	Engine Striking Plates to V.R. Drawings Nos. S. & X. 63.5, 5191.2 or 5297.3	"		"	50 0 0	Davies & Baird Pty. Ltd.

CARBON STEEL CASTINGS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Castings, Carbon Steel (Grade "A" or "C," as ordered, moulded within the limits of gauges, as specified—				£ s. d.	
2255	Axle Boxes, Car, Van, Wagon, and Engine Tender	Vict.	150 tons	ton	53 0 0	Chas. Ruwolt & Co. Ltd.
2255A	Axle Boxes, Car, Van, Wagon, and Engine Tender	"		"	53 0 0	Steel Co. of Aust. Pty. Ltd.
2255B	Axle Boxes, Car, Van, Wagon, and Engine Tender	"		"	53 0 0	Thompson's Eng. Pipe Co. Ltd.
2255C	Axle Boxes, Car, Van, Wagon, and Engine Tender	"		"	53 0 0	Davies & Baird & Co. Ltd.
2256	Axle Boxes, Engine, Engine Trailing Truck, or Engine Bogie	"	150 tons	"	44 0 0	Chas. Ruwolt & Co. Ltd.
2256A	Axle Boxes, Engine, Engine Trailing Truck, or Engine Bogie	"		"	44 0 0	Steel Co. of Aust. Pty. Ltd.
2256B	Axle Boxes, Engine, Engine Trailing Truck, or Engine Bogie	"		"	44 0 0	Thompson's Eng. Pipe Co. Ltd.
2256C	Axle Boxes, Engine, Engine Trailing Truck, or Engine Bogie	"		"	44 0 0	Davies & Baird & Co. Ltd.
	Castings, Carbon Steel (Grade "C," as ordered, moulded within the limits of gauges, as specified—					
	(a) Weights over 14 lb. and up to 1 cwt.—					
2257	Draft Cheeks to V.R. Drawings Nos. 7642, 7611.7, 6430, P.E.T. 3.31 and 3.32	"	50 "	"	48 0 0	Chas. Ruwolt & Co. Ltd.
2257A	Draft Cheeks to V.R. Drawings Nos. 7642, 7611.7, 6430, P.E.T. 3.31 and 3.32	"		"	48 0 0	Steel Co. of Aust. Pty. Ltd.
2257B	Draft Cheeks to V.R. Drawings Nos. 7642, 7611.7, 6430, P.E.T. 3.31 and 3.32	"		"	48 0 0	Thompson's Eng. Pipe Co. Ltd.
2257C	Draft Cheeks to V.R. Drawings Nos. 7642, 7611.7, 6430, P.E.T. 3.31 and 3.32	"		"	48 0 0	Davies & Baird & Co. Ltd.
2258	Carry Irons to V.R. Drawings Nos. I.Z. 45.2, 7611.2, and 7636.15	"	30 "	"	48 0 0	Chas. Ruwolt & Co. Ltd.
2258A	Carry Irons to V.R. Drawings Nos. I.Z. 45.2, 7611.2, and 7636.15	"		"	48 0 0	Steel Co. of Aust. Pty. Ltd.
2258B	Carry Irons to V.R. Drawings Nos. I.Z. 45.2, 7611.2, and 7636.15	"		"	48 0 0	Thompson's Eng. Pipe Co. Ltd.
2258C	Carry Irons to V.R. Drawings Nos. I.Z. 45.2, 7611.2, and 7636.15	"		"	48 0 0	Davies & Baird & Co. Ltd.
2259	Head Stock Stiffeners to V.R. Drawings, Nos. 7604.8, 7636.16 or I.Z. 3.49	"	5 "	"	44 0 0	Chas. Ruwolt & Co. Ltd.
2259A	Head Stock Stiffeners to V.R. Drawings, Nos. 7604.8, 7636.16 or I.Z. 3.49	"		"	44 0 0	Steel Co. of Aust. Pty. Ltd.
2259B	Head Stock Stiffeners to V.R. Drawings, Nos. 7604.8, 7636.16 or I.Z. 3.49	"		"	44 0 0	Thompson's Eng. Pipe Co. Ltd.
2259C	Head Stock Stiffeners to V.R. Drawings, Nos. 7604.8, 7636.16 or I.Z. 3.49	"		"	44 0 0	Davies & Baird & Co. Ltd.
	(b) Weights over 1 cwt.—					
2260	Draft Gear Housing to V.R. Drawings, Nos. 5191.3 and 5297.1	"	30 "	"	56 0 0	Chas. Ruwolt & Co. Ltd.
2260A	Draft Gear Housing to V.R. Drawings, Nos. 5191.3 and 5297.1	"		"	56 0 0	Steel Co. of Aust. Pty. Ltd.
2260B	Draft Gear Housing to V.R. Drawings, Nos. 5191.3 and 5297.1	"		"	56 0 0	Thompson's Eng. Pipe Co. Ltd.
2260C	Draft Gear Housing to V.R. Drawings, Nos. 5191.3 and 5297.1	"		"	56 0 0	Davies & Baird & Co. Ltd.

CARBON STEEL CASTINGS—continued.

Item No.	Description	Country of Manufre.	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
	Castings, Carbon Steel (Grade "C," etc.—continued—					
	(b) Weights over 1 cwt.—continued					
2261	Draft Cheeks, to V.R. Drawings, Nos. S. and X. 63.4	Vict.		ton	48 0 0	Chas. Ruwolt Pty. Ltd.
2261A	Draft Cheeks, to V.R. Drawings Nos. S. and X. 63.4	"			48 0 0	Steel Co. of Aust. Pty. Ltd.
2261B	Draft Cheeks, to V.R. Drawings Nos. S. and X. 63.4	"	5 tons		48 0 0	Thompson's Eng. & Pipe Co. Ltd.
2261C	Draft Cheeks, to V.R. Drawings Nos. S. and X. 63.4	"			48 0 0	Davies & Baird Pty. Ltd.
	Castings, Carbon Steel (Grade "B") moulded within the limits of gauges, as specified—					
	(a) Weights over 14 lb. and up to 1 cwt.—					
2262	Back Stops, to V.R. Drawings Nos. I.Z. 45.7, and .8, 7611.8, 7636.13, 7643, Q.N. 3.21	"			40 0 0	Chas. Ruwolt Pty. Ltd.
2262A	Back Stops, to V.R. Drawings Nos. I.Z. 45.7 and .8, 7611.8, 7636.13, 7643, Q.N. 3.21	"			40 0 0	Steel Co. of Aust. Pty. Ltd.
2262B	Back Stops, to V.R. Drawings Nos. I.Z. 45.7, and .8, 7611.8, 7636.13, 7643, Q.N. 3.21	"	150		40 0 0	Thomson's Eng. & Pipe Co. Ltd.
2262C	Back Stops, to V.R. Drawings Nos. I.Z. 45.7 and .8, 7611.8, 7636.13, 7643, Q.N. 3.21	"			40 0 0	Davies and Baird Pty. Ltd.
2263	Front Stops, to V.R. Drawings Nos. I.Z. 45.9 and .10, 7725.3, 7636.13	"			40 0 0	Chas. Ruwolt Pty. Ltd.
2263A	Front Stops, to V.R. Drawings Nos. I.Z. 45.9 and .10, 7725.3, 7636.13	"			40 0 0	Steel Co. of Aust. Pty. Ltd.
2263B	Front Stops, to V.R. Drawings Nos. I.Z. 45.9 and .10, 7725.3, 7636.13	"	15		40 0 0	Thompson's Eng. & Pipe Co. Ltd.
2263C	Front Stops, to V.R. Drawings Nos. I.Z. 45.9 and .10, 7725.3, 7636.13	"			40 0 0	Davies & Baird Pty. Ltd.
2264	Centre Plates, to V.R. Drawings, Nos. V. 3.50 and V. 31.21	"			40 0 0	Chas. Ruwolt Pty. Ltd.
2264A	Centre Plates, to V.R. Drawings Nos. V. 3.50 and V. 31.21	"			40 0 0	Steel Co. of Aust. Pty. Ltd.
2264B	Centre Plates, to V.R. Drawings Nos. V. 3.50 and V. 31.21	"	5		40 0 0	Thompson's Eng. & Pipe Co. Ltd.
2264C	Centre Plates, to V.R. Drawings Nos. V. 3.50 and V. 31.21	"			40 0 0	Davies & Baird Pty. Ltd.
2265	Yokes, to V.R. Drawing No. 6430 or P.E.T. 45.1	"			40 0 0	Chas. Ruwolt Pty. Ltd.
2265A	Yokes, to V.R. Drawings No. 6430 or P.E.T. 45.1	"			40 0 0	Steel Co. of Aust. Pty. Ltd.
2265B	Yokes, to V.R. Drawing No. 6430 or P.E.T. 45.1	"	5		40 0 0	Thompson's Eng. & Pipe Co. Ltd.
2265C	Yokes, to V.R. Drawing No. 6430 or P.E.T. 45.1	"			40 0 0	Davies & Baird Pty. Ltd.

CARBON STEEL CASTINGS—continued.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate	Name of Contractor
	Castings, Carbon Steel (Grade "B"), etc. continued				£ s. d.	
	Weights over 14 lb. and up to 1 cwt.—continued					
2266	Striking Plates, to V.R. Drawing No. I.Z. 45.6	Vict.	5 tons	ton	52 0 0	Chas. Ruwolt Pty. Ltd.
2266A	Striking Plates, to V.R. Drawing No. I.Z. 45.6	"		"	52 0 0	Steel Co. of Aust. Pty. Ltd.
2266B	Striking Plates, to V.R. Drawing No. I.Z. 45.6	"		"	52 0 0	Thompson's Eng. & Pipe Co. Ltd.
2266C	Striking Plates, to V.R. Drawing No. I.Z. 45.6	"		"	52 0 0	Davies & Baird Pty. Ltd.
	(b) Weights over 1 cwt.—					
2267	Yokes, to V.R. Drawings Nos. I.Z. 45.11 or 5297.2	"	50 "	"	40 0 0	Chas. Ruwolt Pty. Ltd.
2267A	Yokes, to V.R. Drawings Nos. I.Z. 45.11 or 5297.2	"		"	40 0 0	Steel Co. of Aust. Pty. Ltd.
2267B	Yokes, to V.R. Drawings Nos. I.Z. 45.11 or 5297.2	"		"	40 0 0	Thompson's Eng. & Pipe Co. Ltd.
2267C	Yokes, to V.R. Drawings Nos. I.Z. 45.11 or 5297.2	"		"	40 0 0	Davies & Baird Pty. Ltd.
2268	Striking Plates, to V.R. Drawings Nos. 7636.14, 7611.1, V. 45.11 or Q.R. 45.1	"	200 "	"	48 10 0	Chas. Ruwolt Pty. Ltd.
2268A	Striking Plates, to V.R. Drawings Nos. 7636.14, 7611.1, V. 45.11 or Q.R. 45.1	"		"	48 10 0	Steel Co. of Aust. Pty. Ltd.
2268B	Striking Plates, to V.R. Drawings Nos. 7636.14, 7611.1, V. 45.11 or Q.R. 45.1	"		"	48 10 0	Thompson's Eng. & Pipe Co. Ltd.
2268C	Striking Plates, to V.R. Drawings Nos. 7636.14, 7611.1, V. 45.11 or Q.R. 45.1	"		"	48 10 0	Davies & Baird Pty. Ltd.
2269	Centre Plate, to V.R. Drawings Nos. " [" Sided M. 31.66 and M. 31.67	"	5 "	"	40 0 0	Chas. Ruwolt Pty. Ltd.
2269A	Centre Plate, to V.R. Drawings Nos. " [" Sided M. 31.66 and M. 31.67	"		"	40 0 0	Steel Co. of Aust. Pty. Ltd.
2269B	Centre Plate, to V.R. Drawings Nos. " [" Sided M. 31.66 and M. 31.67	"		"	40 0 0	Thompson's Eng. & Pipe Co. Ltd.
2269C	Centre Plate, to V.R. Drawings Nos. " [" Sided M. 31.66 and M. 31.67	"		"	40 0 0	Davies & Baird Pty. Ltd.
2270	Transition Coupler Shanks, to V.R. Drawings Nos. 7711 or 5191.13	"	5 "	"	40 0 0	Chas. Ruwolt Pty. Ltd.
2270A	Transition Coupler Shanks, to V.R. Drawings Nos. 7711 or 5191.13	"		"	40 0 0	Steel Co. of Aust. Pty. Ltd.
2270B	Transition Coupler Shanks, to V.R. Drawings Nos. 7711 or 5191.13	"		"	40 0 0	Thompson's Eng. & Pipe Co. Ltd.
2270C	Transition Coupler Shanks, to V.R. Drawings Nos. 7711 or 5191.13	"		"	40 0 0	Davies & Baird Pty. Ltd.
2271	Engine Coupler Pocket to V.R. Drawing No. 5193.5	"	10 "	"	48 0 0	Chas. Ruwolt Pty. Ltd.
2271A	Engine Coupler Pocket to V.R. Drawing No. 5193.5	"		"	48 0 0	Steel Co. of Aust. Pty. Ltd.
2271B	Engine Coupler Pocket to V.R. Drawing No. 5193.5	"		"	48 0 0	Thompson's Eng. & Pipe Co. Ltd.
2271C	Engine Coupler Pocket to V.R. Drawing No. 5193.5	"		"	48 0 0	Davies & Baird Pty. Ltd.

CARBON STEEL CASTINGS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
	Castings, Carbon Steel. (Grade "B" without machining, as specified—					
2272	Crossheads A1, A2, C, D1, 2, 3, and 4, K, N, S, and X Class, as ordered	Vict.	5 tons	ton	60 0 0	Chas. Ruwolt Pty. Ltd.
2272A	Crossheads, A1, A2, C, D1, 2, 3, and 4, K, N, S, and X Class, as ordered	"		"	60 0 0	Steel Co. of Aust. Pty. Ltd.
2272B	Crossheads, A1, A2, C, D1, 2, 3, and 4, K, N, S, and X Class, as ordered	"		"	60 0 0	Thompson's Eng. & Pipe Co. Ltd.
2272C	Crossheads, A1, A2, C, D1, 2, 3, and 4, K, N, S, and X Class, as ordered	"		"	60 0 0	Davies & Baird Pty. Ltd.
2273	Crossheads, narrow gauge	"	1 "	"	60 0 0	Chas. Ruwolt Pty. Ltd.
2273A	Crossheads, narrow gauge	"		"	60 0 0	Steel Co. of Aust. Pty. Ltd.
2273B	Crossheads, narrow gauge	"		"	60 0 0	Thompson's Eng. & Pipe Co. Ltd.
2273C	Crossheads, narrow gauge	"		"	60 0 0	Davies & Baird Pty. Ltd.
2274	Crossheads, Garratt	"	1 "	"	60 0 0	Chas. Ruwolt Pty. Ltd.
2274A	Crossheads, Garratt	"		"	60 0 0	Steel Co. of Aust. Pty. Ltd.
2274B	Crossheads, Garratt	"		"	60 0 0	Thompson's Eng. and Pipe Co. Ltd.
2274C	Crossheads, Garratt	"		"	60 0 0	Davies and Baird Pty. Ltd.
	Castings, Carbon Steel (Grade B) as specified—					
2275	Frame Stays	"	5 "	"	54 0 0	Chas. Ruwolt Pty. Ltd.
2275A	Frame Stays	"		"	54 0 0	Steel Co. of Aust. Pty. Ltd.
2275B	Frame Stays	"		"	54 0 0	Thompson's Eng. and Pipe Co. Ltd.
2275C	Frame Stays	"		"	54 0 0	Davies and Baird Pty. Ltd.
2276-2278	Nil					

STEEL CASTINGS—JUNCTION FISHPLATES.

SPECIFICATION.

7. **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.

8. **Description.**—The cast steel junction fishplates shall be of the classes and weights ordered from time to time.

9. **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.

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

STEEL CASTINGS—JUNCTION FISHPLATES.—continued.

11. **Moulding.**—The castings shall be accurately moulded in accordance with the patterns supplied, with the letters and figures well defined (denoting the hand, etc., 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.

12. **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.

13. **Cold Bend Test.**—The test bar attached to each casting must withstand, without fracture, being bent double by striking with a $1\frac{1}{4}$ lb. hammer. Should any test bar fail to fulfil the test the casting from which the test bar was tested will be rejected.

14. **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— VR ($\frac{3}{4}$ inch diameter), also a letter indicating the Manufacturer's initial; thus—R. The castings shall NOT be coated with any substance.

15. **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.

16. **Delivery.**—The cast steel junction fishplates shall be delivered to the Storekeeper at the Way and Works Workshops, Spotswood, Victoria.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
2279	Fishplates, Junction, Cast Steel (annealed) with wearing surfaces.	Vict.	50 tons	ton	£ s. d. 40 0 0	Chas. Ruwolt Pty. Ltd.
2280	Nil					

SPECIAL ALLOY STEEL (FOR AXLES).

7. SPECIFICATION—

Ultimate stress 50–55 tons per square inch. Elongation 20 per cent. Reduction in area 45 per cent. Impact test 50 ft. pounds.

The Steel shall be supplied in the heat treated state and rolled to a bright finish, free from scale, rust and other surface imperfections, having a high resistant to abrasive wear, free cutting, true and free from kinks, in Bars of 6 feet lengths or multiples thereof. The actual diameter shall not be less than the nominal diameter to within $1/1000$ " nor greater than $4/1000$ " above nominal diameter.

Orders placed under either item to be for minimum quantity of 10 cwt.

Special Alloy Steel, for the manufacture of Axles for K.S. and K. Motors, to Specification— Carbon—3% to 4% Manganese—1.1% to 1.7%						
2281	$1\frac{1}{4}$ " diameter, in 6' lengths or multiples thereof	Vict.	60 cwt.	cwt.	2 12 0	Melbourne Iron & Steel Mills Pty. Ltd.
2282	$1\frac{3}{8}$ " diameter, in 6' lengths or multiples thereof		18 "	"	2 12 0	
2283	Nil					

ROLLED IRON

SPECIFICATION FOR WROUGHT IRON FLATS—(Item 2284) and WROUGHT IRON BARS—(Items 2285 to 2289).

7. **Particulars.**—The Wrought Iron Flats and Bars shall be in accordance with British Standard Specification No. 51-1929, as applied to Best Yorkshire Grade (except where shown otherwise in this Specification).

The W.I. Bars shown opposite 2289 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.

8. **Limits of Tolerance.**—The W.I. Flats and Bars (Item 2288 excepted), shall be true to the ordered dimensions within the following limits of tolerance:—

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

Item 2288 for the manufacture of Steam Tight Studs,

$\frac{3}{4}$ in. and over, minus nil. Plus 0.020

$\frac{1}{2}$ in. and $\frac{5}{8}$ in., minus nil. Plus 0.015

Length. All Items. Plus 2", minus Nil.

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

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

11. **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.

12. **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 (Items 2290-2306)

13. The whole of the Scrap for the manufacture of the Rolled Iron under these items 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 £1/5/- per ton, delivered in trucks at Spencer-street Railway Station, and the rates set opposite to items numbered respectively 2290 to 2306 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 £1/15/- per ton. Payment at the rate or rates aforesaid shall be made by the Contractor to the Comptroller of Accounts 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.

14. 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 2290 to 2302 (inclusive).

15. **Freedom from Defects.**—All Rolled Iron Bars and Flats shall be sound, free from flaws, cracks, crop ends, and any other injurious defects and finished in a workmanlike manner.

The R.I. Bars shall be commercially straight.

ROLLED IRON (Double)—continued.

16. **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 $\frac{1}{2}$ in. diam, thickness or width	0.007 in.	0.007 in.
Over $\frac{1}{2}$ in. to 1 in. diam., thickness or width	0.010 in.	0.010 in.
Over 1 in. to 2 in. diam., thickness or width	$\frac{1}{64}$ in.	$\frac{1}{32}$ in.
Over 2 in. to 3 in. diam., thickness or width	$\frac{1}{32}$ in.	$\frac{3}{64}$ in.
Over 3 in. to 5 in. diam., thickness or width	$\frac{1}{32}$ in.	$\frac{3}{32}$ in.
Over 5 in. to 8 in. diam., thickness or width	$\frac{1}{16}$ in.	$\frac{1}{8}$ in.

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

17. **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 one inch diameter or thickness, or turned down for bars over one inch 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.

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

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

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

21. **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.

22. **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 2303 to 2306.

23. 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.

The Contract rates are subject to adjustments by mutual arrangement between the Comptroller of Stores and the Contractor, should there be any alteration in the working hours or wages due to awards of any properly constituted tribunal.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Wrought Iron (Yorkshire Grade) as specified					
2284	Flat Bars—All sizes mentioned for Double Rolled Iron—Items 2290–2299	Vict. (partly)	5 tons	ton	£ s. d. 28 18 0	Melbourne Iron Steel Mills Ltd.
	Round or Square Bars any length ordered by any of the following diameters or thicknesses ordered					
2285	Up to $\frac{5}{8}$ " advancing by $\frac{1}{16}$ "	"	150	"	28 18 0	
2286	Over $\frac{5}{8}$ " up to $1\frac{1}{2}$ " advancing by $\frac{1}{16}$ "	"		"	28 18 0	
2287	Over $1\frac{1}{2}$ " up to 3" advancing by $\frac{1}{8}$ "	"		"	28 18 0	
2288	$\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ ", or 1" dia. Round Bars for steam tight studs	"		"	28 18 0	
2289	1" diam. Bars for Crown Stays	"		"	28 18 0	

ROLLED IRON—continued.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate	Name of Contractor
	Double Rolled Iron (as specified)— Flat Bars, any length ordered, and in any of the following thicknesses and sizes as ordered				£ s. d.	
2290	$\frac{3}{4}$ " and $\frac{7}{8}$ " x $7/16$ " to $\frac{5}{8}$ " advancing by $1/32$ "	Vict.	80 tons	ton	15 0 0	Melbourne Iron & Steel Mills Pty Ltd.
2291	1" x $\frac{1}{4}$ " to $\frac{5}{8}$ " advancing by $1/32$ "	"		"	15 0 0	
2292	$1\frac{1}{8}$ " x $\frac{1}{4}$ " to $\frac{3}{4}$ " advancing by $1/32$ "	"		"	15 0 0	
2293	$1\frac{1}{4}$ " x $\frac{1}{4}$ " to $\frac{5}{8}$ " advancing by $1/32$ "	"		"	15 0 0	
2294	$1\frac{3}{8}$ " and $1\frac{1}{2}$ " x $\frac{1}{4}$ " to 1" advancing by $1/32$ "	"		"	15 0 0	
2295	$1\frac{3}{4}$ " and 2" x $\frac{1}{4}$ " to $1\frac{1}{4}$ " advancing by $1/32$ "	"		"	15 0 0	
2296	$2\frac{1}{4}$ ", $2\frac{1}{2}$ " and $2\frac{3}{4}$ " x $\frac{1}{4}$ " to $1\frac{1}{2}$ " advancing by $1/32$ "	"		"	15 0 0	
2297	3", $3\frac{1}{2}$ " 4" and $4\frac{1}{2}$ " x $\frac{1}{4}$ " to 2" advancing by $1/32$ "	"		"	15 0 0	
2298	5" and $5\frac{1}{2}$ " x $\frac{1}{4}$ " to $2\frac{1}{2}$ " advancing by $1/32$ "	"		"	15 0 0	
2299	6" x $\frac{1}{4}$ " to 2" advancing by $1/32$ "	"		"	15 0 0	
	Round or Square Bars , any length ordered by any of the following diameters or thicknesses ordered					
2300	$\frac{1}{2}$ " Up to $\frac{5}{8}$ " advancing by $1/16$ "	"	150 "	"	15 0 0	
2301	Over $\frac{5}{8}$ " up to $1\frac{1}{2}$ " advancing by $1/16$ "	"		"	15 0 0	
2302	Over $1\frac{1}{2}$ " up to 3" advancing by $\frac{1}{8}$ "	"		"	15 0 0	
	Treble Rolled Iron (as specified)— Round or Square Bars, any length ordered, by any of the following diameters or thicknesses ordered					
2303	$\frac{1}{2}$ " Up to $\frac{5}{8}$ " advancing by $1/16$ "	"	10 "	"	20 10 0	
2304	Over $\frac{5}{8}$ " up to $1\frac{1}{2}$ " advancing by $1/16$ "	"		"	20 10 0	
2305	Over $1\frac{1}{2}$ " up to 3" advancing by $\frac{1}{8}$ "	"		"	20 10 0	
2306	Over 3" up to 4" advancing by $\frac{1}{8}$ "	"		"	20 10 0	
2307-2310	Nil					

BRIGHT STEEL BARS

7. SPECIFICATION—

Particulars.—The Bright Round and Hexagon Steel Bars shall be in accordance with British Standard Specification No. 32-1927 for grade 2 steel and the Bright Free Cutting Round and Hexagon Steel Bars shall be in accordance with grade 3 steel (clause 1 of the B.S.S. and where stated otherwise in this Specification excepted).

Tolerance.—The Steel Bars shall be within the limits of tolerance, given in Table (I) for Round Bars, and Table (III.) for Hexagon Bars, in B.S. Specification No. 32-1927.

Tests.—The Contractor shall supply documentary evidence that each cast in each delivery of Steel Bars has passed the specified 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 any Steel Bar show injurious defects in course of fabrication by the Corporation the Contractor shall be notified, and provided the 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 Bar.

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

8. The rates for Items of N.S.W. manufacture include wharfage, and in the event of time for importation being allowed, wharfage will be cleared by the Corporation, and the amount involved deducted from the Contractor's invoice. Bills of lading shall be made out in favor of the Victorian Railways Commissioners to enable this to be done.

BRIGHT STEEL BARS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
2311	Bars, Bright Round Steel—as specified— “H. V. McKay—Massey Harris Pty. Ltd.” $\frac{3}{16}$ " diameter, any lengths ordered ...	Vict.	2 cwt.	cwt.	£ s. d. 1 14 9	Dane, Taylor & Co. Pty. Ltd.
2312	$\frac{1}{4}$ "					

KEROSENE, MOTOR SPIRIT AND FUEL OILS.

(See Appendix "I" for Specification.)

The quantity to be paid for shall be determined on the following basis :—

Gallage of Kerosene and Motor Spirit in Cases to be ascertained by measurement by certified Imperial gallon measure after delivery to destination shown on order. 4 per cent. of each delivery shall be measured, and the average contents shall determine the quantity to be paid for the full delivery.

As regards Items Nos. 2361-2363, measurements as disclosed by bowser will be accepted as basis for payment.

Gallage of kerosene (except high test kerosene), motor spirit, benzol or benzoline, delivered in bulk (other than in cases or tins), shall be ascertained by calibrated stick, at actual temperature. Standard drums and dip sticks shall be used.

Net weight of Fuel Oil and Pintsch Gas Oil shall be ascertained by weighing over Departmental weighbridge or scales.

High Test Kerosene.

** As regards Items Nos. 2350 to 2350c, the rates do not include Exchange between Australia and London, and are based on the par rate of conversion between London and the country of production. London-New York conversion is based on 4.86½ dollars to the £1 sterling.

The contract rate is to be adjusted to cover the rate of Exchange and conversion operating on the date of delivery between Australia and the country of production in the following manner :—

The factor shown will be multiplied by the percentage of Exchange ruling on the date of delivery between Australia and the country of production shown in the Schedule. The result will determine the amount by which the contract rate per gallon will be increased or decreased.

The rate of Exchange and conversion notified by the Commonwealth Bank of Australia as ruling on the date of delivery to the Corporation will be in all cases be accepted.

Payment for High Test Kerosene will be on gallonage calculated on net weight ascertained by approved methods by the Comptroller of Stores or his representative at the place of delivery, and the specific gravity ascertained in the Victorian Railways Laboratory from samples drawn from such delivery.

† The whole of the rates in this Schedule, excepting Items Nos. 2350 to 2350c, are the nett wholesale selling prices ruling on the 1st October, 1934, and are subject to all market fluctuations in the Contractors' wholesale nett selling prices. It is agreed that any special allowance to specific classes of buyers shall not necessarily constitute a variation in the wholesale selling rates. All deliveries will be invoiced at the nett wholesale selling price ruling on the actual date of delivery, and clause 7 of the Conditions of Contract shall not apply.

The rates for Kerosene and Motor Spirit, with the exception of 300 deg. High Test Kerosene, are the nett wholesale prices, and have been arrived at by deducting ½d. bulk allowance, where applicable, 1d. special allowance, which is subject to cancellation without notice, and 1d. cash discount for payment within 30 days. The rates shown in the schedule are the nett prices.

The Contractor shall deliver Kerosene, Motor Spirit, Benzol and Benzoline under Items Nos. 2349 to 2357D, 2364 to 2365A at the places and in the manner provided in clause 12 of the conditions of contract, or if so required and indicated on the order covering such supplies, shall deliver at any railway depot within the Metropolitan Area.

The necessary drums for despatching the Motor Spirit or Kerosene to country depots, shall be loaned by the Contractor, free of charge, but the Corporation shall return the drums within a reasonable time on demand or pay the Contractor at the rate of 40s. and 10s. each for heavy and light drums respectively.

As regards Items Nos. 2367 and 2368, Fuel Oil delivered in 40-gallon drums at Company's Works, will be charged ½d. per gallon for filling in drums provided by the Corporation. Should the Company provide the drums, a charge of ¾d. per gallon for filling will be made current.

As regards Item No. 2368, Fuel Oil in 40-gallon drums delivered in the Metropolitan Area will be subject to a cartage charge of 1s. 8d. per drum for six drums or over. Delivery under Item 2367 cannot be given in less than truck loads at Company's Siding.

Fuel oil provided under Items Nos. 2367A and 2368A, is for oil engines and for use at Buffalo Chalet. C.O.R. fuel oil to be used for all other purposes.

Drums containing fuel oil, supplied by Shell Co and C.O.R. Co., shall remain the property of the Contractor, and are returnable free of all charges by the Corporation. In the event of non return of drums to the Shell Co., such drums shall be charged at 30s. for heavy steel drums and 10s. for one trip drums.

As regards 2350-2350c the Shell Coy. is to receive one-third of business and Vacuum Oil Coy. two-thirds.

Allotment of orders and method of ordering are to be arranged as per instructions contained in circular of 24/10/34.

KEROSENE, MOTOR SPIRIT AND FUEL OILS—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
† { 2349	Kerosene, Illuminating Oil, Specification N.1—"C.O.R."— in cases, 2 x 4 gal. tins	Vict. (partly)	175,000	imp. gal.	£0 1 4	The Commonwealth Oil Refineries Ltd.
† { 2349A	in 24 or 44 gal. drums	"			£0 0 10½	
† { 2350	Kerosene 300° High Test, Specification N.3—"Shell"— in cases 2 x 4 gal. tins	U.S.A.	4500	"	**0 1 5	The Shell Co. of Aust. Ltd.
† { 2350A	Exchange Factor 11d. gal. in 44 gal. drums.	"			**0 1 2	
	Exchange Factor 11d. gal.	"				
† { 2350B	Kerosene, 300° High Test, Specification N.3—"M1103"— in cases 2 x 4 gal. tins	"			**0 1 5	Vacuum Oil Co. Pty Ltd.
† { 2350C	Exchange Factor 11d. gal. in 44 gal. drums, "M1103"	"			**0 1 2	
	Exchange Factor 11d. gal.	"				
† { 2351	Kerosene, for Engine Cleaning Purposes—"C.O.R."—in cases, 2 x 4 gal. tins.	Vict. (partly)	2500	"	£0 1 1½	The Commonwealth Oil Refineries Ltd.
† { 2351A	Kerosene, for Engine Cleaning Purposes—"C.O.R."—in 24 or 44 gal. drums.	"			£0 0 8½	
† { 2352	Kerosene, for Lux Lamps, "Pennant"—in cases, 2 x 4 gal. tins in 44 gal. drums.	E. Indies	14,000	"	£0 1 4	The Shell Co. of Aust. Ltd.
† { 2352A	Kerosene, for Lux Lamps, "Pennant"—in 44 gal. drums	"			£0 0 10½	
† { 2353	Kerosene Power Fuel, for Coulson or other Kerosene Engines, Specification N.1—"C.O.R."—in cases 2 x 4 gal. tins.	Vict. (partly)	24,000	"	£0 1 1½	The Commonwealth Oil Refineries Ltd.
† { 2353A	Kerosene Power Fuel, for Coulson or other Kerosene Engines, Specification N.1—"C.O.R."—in 24 or 44 gal. drums.	"			£0 0 8½	
† { 2354	Motor Spirit, Specification N.4, "Shell"—1st Grade, in cases, 2 x 4-gallon tins	East Indies	17,500	"	£0 1 10½	The Shell Co. of Aust. Ltd.
† { 2355	1st Grade, delivered by road tanker into drums or tanks or delivered in 44-gallon drums at any railway depot within the Metropolitan Area, "Shell"	"	8000	"	£0 1 3½	
† 2356	Motor Spirit, 2nd Grade, Specification N.4, in cases, 2 x 4-gallon tins—"Shell"	"		"	£0 1 10½	
† 2356A	"Plume"	U.S.A.		"	£0 1 10½	
† 2356B	"C.O.R. Straight"	Vict. (partly)	140,000	"	£0 1 10½	The Commonwealth Oil Refineries Ltd.
† 2356C	"Atlantic"	East Indies			£0 1 10½	
† 2356D	"Texaco 400"	U.S.A.			£0 1 10½	
† 2357	Motor Spirit, 2nd Grade, Specification N.4, delivered by road tanker into drums or tanks, or delivered in 44-gallon drums at any Railway Depot within the Metropolitan Area—"Shell"	East Indies	600,000	"	£0 1 3½	The Shell Co. of Aust. Ltd.
† 2357A	"Plume"	U.S.A.			£0 1 3½	
† 2357B	"C.O.R. Straight"	Vict. (partly)			£0 1 3½	The Commonwealth Oil Refineries Ltd.
† 2357C	"Atlantic"	East Indies			£0 1 3½	
† 2357D	"Texaco 400"	U.S.A.			£0 1 3½	

KEROSENE, MOTOR SPIRIT, AND FUEL OIL—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
2358	Motor Spirit 2nd Grade, Specification N4, delivered by road tanker into the Corporation's underground tank at Echuca Railway Station, "Shell"	East Indies	40,000 gals.	imp. gallon	10 1 5½	The Shell Co. of Aust. Ltd.
2359	Motor Spirit, 2nd Grade, Specification N4, delivered in bulk by road tanker into the Corporation's underground tank at the State Coal Mine, at Wonthaggi, "Shell"	"	6000 "	"	10 1 5½	
2360	Motor Spirit, 2nd Grade, Specification N4, delivered by road tanker into the Corporation's underground tank at Geelong, "C.O.R. Straight"	Vict. (partly)	500 "	"	10 1 4½	The Commonwealth Oil Refineries Ltd.
	Motor Spirit, 2nd Grade, Specification N4, delivered from Contractor's Bowser into the Corporation's road motor vehicles, as required at—					
2361	Geelong, "Shell"	East Indies	12,000 "	"	10 1 4½	The Shell Co. of Aust. Ltd.
2362	Ferntree Gully, "Shell"	"	18,000 "	"	10 1 3½ plus 1d. bowser charge	
2363	Warburton, "Shell"	"	5000 "	"	10 1 4½ plus 1d. bowser charge	
2364	Benzol, in 44-gal. Corporation's drums, "Shell"	N.S.W.		"	10 1 10	
2364A	Benzol, in 44-gal. Contractor's drums, "Shell"	"	2500 "	"	10 1 11	Vacuum Oil Co. Pty. Ltd.
2365	Benzoline, in Corporation's 44-gal. drums, "Plume"	U.S.A.		"	10 2 6	
2365A	Benzoline, in Contractor's 44-gal. drums, "Plume"	"	1600 "	"	10 2 7	
	Fuel Oil (Petroleum Oil Product), Specification O.I.—					
2366	Delivered in Corporation's railway tank trucks at Company's siding at Newport or Port Melbourne, "C.O.R." (See notes)	Vict. (partly)	6000 tons	ton	13 15 0	The Commonwealth Oil Refineries Ltd.
2367	In 40-gallon Corporation's drums, in trucks at Company's siding at Newport or Port Melbourne, "C.O.R." (See notes)	"	250 "	"	13 15 0	
2367A	In 44-gallon Corporation's drums, in trucks, at Contractor's works, at Spotswood (Furnace Oil)	East Indies	40 "	"	15 7 0	The Shell Co. of Aust. Ltd.
2368	In 40-gallon drums, delivered by Contractor in the Metropolitan Area, "C.O.R." (See notes)	Vict. (partly)	50 "	"	13 15 0	The Commonwealth Oil Refineries Ltd.
2368A	In 44-gallon drums, delivered by Contractor in the Metropolitan Area, "Shell" (Furnace Oil)	East Indies	Included in Item 2367A	"	15 7 0	The Shell Co. of Aust. Ltd.
2369	Delivered by Contractor into Departmental tank, at Railway Buildings, Spencer-street, in approximately 4-ton loads, "C.O.R."	Vict. (partly)	150 "	"	13 15 0	The Commonwealth Oil Refineries Ltd.
2370	Oil, for the manufacture of Pintsch Gas, delivered in Departmental railway tank trucks, at Contractor's siding, at Newport or Port Melbourne, Specification O.I., "C.O.R."	"	250 "	"	13 15 0	
2371-2375	Nil					

CORRUGATED JOINTING RINGS.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Rings, Corrugated Jointing, Steel—				£ s. d.	
*†2376	½" hole, 4" outside dia., small corr., sample No. 273	Vict.	270	each	0 0 4	William Black
*†2377	¾" hole, 4" outside dia., sample No. 274	"	430	"	0 0 4	
*†2378	1" hole, 5" outside dia., sample No. 275	"	250	"	0 0 6	
*†2379	1¼" hole, 5" outside dia., sample No. 276	"	260	"	0 0 6	
*†2380	1½" hole, 5¼" outside dia., sample No. 277	"	140	"	0 0 7	
*†2381	2" hole, 6" outside dia., sample No. 279	"	490	"	0 0 7½	
*†2382	2½" hole, 7" outside dia., sample No. 283	"	100	"	0 0 10	
*†2383	3" hole, 8" outside dia., sample No. 286	"	240	"	0 1 0	
	Rings, Corrugated Jointing, Brass—					
*†2384	1¼" hole, 2" outside dia., small corr. Whistle Valve Seats, sample No. 223	"	100	"	0 0 3¼	William Black
*†2385	1¾" hole, 2¼" outside dia., small corr. Gauge Glasses, sample No. 225	"	120	"	0 0 3¼	
*†2386	2¼" hole, three cornered, small corr., sample No. 228	"	100	"	0 1 0	
*†2387	2½" hole, small corr., Non-return Blow-down Valves, sample No. 230	"	100	"	0 0 9	
*†2388	Bye Pass Valves to Cylinder C.K., N. and X. Engines	"	440	"	0 0 10	
*†2389	Bye Pass Valves to Cylinder, A1-2, D1-4 Engines	"	730	"	0 0 9	
*†2390	Blower Mountings in Smoke Box, Engines in general	"	500	"	0 0 6	
*†2391	Injectors, A1-2 Engines	"	800	"	0 1 6	
*†2392	Injectors, D1-4 Engines	"	730	"	0 1 6	
*†2393	Safety Valves, A1-2, D1-4 Engines	"	700	"	0 0 9	
*†2394	Blow Off Cocks, Engines in general	"	880	"	0 1 0	
*†2395	Water Gauge Cock Mountings, Engines in general	"	460	"	0 0 6	
*†2396	Chime Whistle Flanged Base, Engines in general	"	300	"	0 0 9	

2397-2420—Nil

ROLLED STEEL

(See Appendices "L" to "X" inclusive for Specification.)

PLACE AND CONDITIONS OF DELIVERY

A. The rates for material of N.S.W. manufacture are provisionally delivered c.i.f., Melbourne. The stores shall be shipped in such a manner as will enable the Corporation to take provisional delivery direct from Ships' Slings into railway trucks at Williamstown or Victoria Dock. Stevedoring charges will be to the Corporation's account.

B. The stores of Victorian manufacture shall be delivered at Spencer-street Receiving Depot or in trucks at Brooklyn, at Contractor's option.

Notwithstanding that such provisional delivery has been given the stores shall be subject to rejection if not received at destination in good order and condition and to the satisfaction of the Comptroller of Stores.

In the event of the Contractor requiring stores that have been rejected, forwarded by rail to any other location, freight shall be payable by the Contractor.

Wharfage and Stevedoring is to the Corporation's account and copies of orders are to be forwarded to the Shipping Clerk.

ROLLED STEEL—continued.

All rates for material supplied by the Broken Hill Co., McPherson's Pty. Ltd., are subject to a discount of $3\frac{1}{2}\%$.

In regard to the Contracts with the Broken Hill Pty. Co. Ltd. and McPherson Pty. Ltd., in the event of the current market prices falling or rising during the currency of the contract, such fall or rise, as the case may be, shall apply to all unsupplied orders at the date of such alteration in price.

Time for Delivery—Maximum eight weeks, provided this fits in with Contractor's rolling programme.

The Contract with the Melbourne Iron and Steel Mills is subject to the contract rates being amended by mutual arrangement between the Comptroller of Stores and the Contractor should there be any alteration in the working hours or wages due to awards of any properly constituted Tribunal which will affect cost of production. Further, in the event of there being any rise or fall in the price of Broken Hill and/or Australian Iron and Steel Coy's blooms, the Contract rates for Mild Steel manufactured from either of these Coy's blooms shall be adjusted by a like amount, plus 10 per cent. to cover waste, for deliveries made on and after the expiration of a period of 2 months from date of such alteration.

Name of Manufacturers—McPherson's Contract, Australian Iron and Steel Ltd.

See also Special instructions of Comptroller of Stores, dated 27/10/34, re method of ordering and discount.

BLACK STEEL SHEETS.

Items 2615–2638.

Name of Manufacturer—Lysaght's Pty. Ltd.

Steel Sheets, 16G and heavier, will be packed in bundles.

Steel Sheets, lighter than 16G. will be packed in steel envelopes.

Payment will be made on gross weights as ascertained on Corporation's weighing machines.

Eight weeks to be allowed for delivery from date of receipt of order.

The Contract rates are subject to variations to the extent of any rise or fall in "Lysaght's" current rates, and shall apply to the undelivered portion of orders, the Contractor to be under obligation to advise the Comptroller of Stores of any such alteration.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
					£ s. d.	
	STEEL ANGLES					
	Mild Steel Angles (as specified in Appendix L). In lengths up to 60' 0", as may be ordered.—					
2421	2 united inches up to 6 united inches by $\frac{1}{4}$ " thickness and over (as rolled by the Company)	Vict.	220 tons	ton	12 19 6	Melbourne Iron & Steel Mills, Pty. Ltd.
2422–2427 (Inclusive)—Nil						
2428	Extra to the above rate (Item 2421) for Boiler Quality angles (as specified in Appendix P)	"	15 "	"	0 15 0	
2429	Extra for cold straightening	"	...	"	0 5 0	
2430–2435 (Inclusive)—Nil						
2436	Extra for lengths over 60' 0" and up to 70' 0" in addition to preceding extras listed—	"	...	"	1 0 0	
2437–2440 (Inclusive)—Nil						
2441	Extra for cutting lengths to a margin of plus or minus $\frac{1}{4}$ " in addition to preceding extras listed.		...	"	0 10 0	

ROLLED STEEL—continued.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate	Name of Contractor
	HEAVY STEEL ANGLES. (See also Items 2422A-2456A and 2442B-2456B). Heavy Mild Steel Angles (as specified in Appendix L). In lengths up to 60' 0", as may be ordered				£ s. d.	
2442	In the following sizes only, as ordered— 3½" x 3" x ⅜" to 5" x 3½" x ⅜" 3½" x 3½" x ⅜" to 5" x 3½" x ⅜" 4" x 3" x ⅜" to 5" x 3½" x ⅜" 4" x 4" x ½" to 5" x 3½" x ⅜" 5" x 2½" x ⅜" to 5" x 3½" x ⅜"	Vict.	350 tons	ton	12 19 6	Melbourne Iron & Steel Mills Pty. Ltd.
2443	Over 12 united inches by ½" thickness and over	"		...	...	Nil
2444	Extra to the above rate (Item 2442) for Boiler Quality Heavy Angles (as specified in Appendix P.)	"		"	0 15 0	
2445	Extra for cold straightening	"		"	0 5 0	
2446	to 2449 (inclusive) Nil.					
	Lengths exceeding 60' 0" will be subject to the following extras in addition to those already listed					Melbourne Iron & Steel Mills Pty. Ltd.
2450	Over 60' 0" and up to 65' 0"	"		"	1 0 0	
2451	Over 65' 0" and up to 70' 0"	"		"	1 0 0	
2452	to 2455 (inclusive) Nil.					
2456	Extra for cutting lengths to a margin of plus or minus ⅛" in addition to preceding extras listed	"		"	0 10 0	Melbourne Iron & Steel Mills Pty. Ltd.
	HEAVY STEEL ANGLES. (See also Items 2442-2456 and 2442B-2456B). Heavy Mild Steel Angles (as specified in Appendix L). In lengths from 10' 0" to 40' 0", as may be ordered					
2442A	Over 8 united inches and up to and including 12 united inches by ½" thickness and over	N.S.W.		"	†10 10 0	
2442AA	5" x 3" x ½" thickness and over	"		"	†10 10 0	
2443A	Over 12 united inches by ½" thickness and over, in sizes rolled by Contractor	"	Included in Items 2442-2444	"	†11 10 0	
2444A	Extra to the above rates (Items 2442A to 2443A) for Boiler Quality Heavy Angles (as specified in Appendix P.)	"		"	†0 10 0	The Broken Hill Pty. Co. Ltd.
2445A	Extra for cold straightening	"			No extra charge	

† Rates are c.i.f. Melbourne, and less 3½% discount.

ROLLED STEEL—continued.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate	Name of Contractor
	HEAVY STEEL ANGLES—continued.				£ s. d.	
	Lengths under 10' 0" or exceeding 40' 0" will be subject to the following extras in addition to those already listed.					
2446A	Extra for Long lengths. Over 40' 0" and up to 45' 0" ...	N.S.W.		ton	10 5 0	The Broken Hill Pty. Coy. Ltd.
2447A	Over 45' 0" and up to 50' 0" ...	"		"	11 0 0	
2448A	Over 50' 0" and up to 55' 0" ...	"		"	11 5 0	
2449A	Over 55' 0" and up to 60' 0" ...	"		"	11 15 0	
2450A	Over 60' 0" and up to 65' 0" ...	"		"	12 5 0	
2451A	Over 65' 0" and up to 70' 0" ...	"		"	13 0 0	
2452A	Over 70' 0" and up to 75' 0" ...	"		"	13 10 0	
	Extra for Short lengths.					
2453A	Under 10' 0" down to 5' 0" ...	"		"	10 10 0	
2454A	Under 5' 0" down to 3' 0" ...	"		"	11 0 0	
2455A	Under 3' 0" ...	"		"	11 10 0	
2456A	Extra for cutting lengths to a margin of plus or minus $\frac{1}{8}$ " in addition to preceding extras listed	"		"	11 5 0	
	HEAVY STEEL ANGLES. (See also Items 2442-2456 and 2442A-2456A)					
	Heavy Mild Steel Angles (as specified in Appendix L.). In lengths from 10' 0" to 40' 0", as may be ordered					
2442B	Over 8 united inches and up to and including 12 united inches by $\frac{1}{4}$ " thickness and over, in sizes rolled by Contractor	"	Included in Items 2442-2444	"	110 10 0	McPherson's Pty. Ltd.
2442BB	5" x 3" x $\frac{1}{4}$ " thickness and over ...	"		"	110 10 0	
2443B	Over 12 united inches by $\frac{1}{2}$ " thickness and over, in sizes rolled by Contractor	"		"	111 10 0	
2444B	Extra to the above rates (Items 2442B to 2443B) for Boiler Quality Heavy Angles (as specified in Appendix P).	"		"	10 10 0	
2445B	Extra for cold straightening ...	"		"	No extra charge	
	Lengths under 10' 0" or exceeding 40' 0" will be subject to the following extras in addition to those already listed					
	Extra for Long lengths.					
2446B	Over 40' 0" and up to 45' 0" ...	"		"	10 5 0	
2447B	Over 45' 0" and up to 50' 0" ...	"		"	11 0 0	
2448B	Over 50' 0" and up to 55' 0" ...	"		"	11 5 0	
2449B	Over 55' 0" and up to 60' 0" ...	"		"	11 15 0	
2450B	Over 60' 0" and up to 65' 0" ...	"		"	12 5 0	
2451B	Over 65' 0" and up to 70' 0" ...	"		"	13 0 0	
2452B	Over 70' 0" and up to 75' 0" ...	"		"	13 10 0	

† Rates are c.i.f. Melbourne, less 3 $\frac{1}{4}$ % discount.

ROLLED STEEL—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor	
HEAVY STEEL ANGLES—continued							
Extra for Short lengths.					£ s. d.		
2453B	Under 10' 0" down to 5' 0" ...	N.S.W.		tons	£0 10 0	McPherson's Pty. Ltd.	
2454B	Under 5' 0" down to 3' 0" ...	"		"	£1 0 0		
2455B	Under 3' 0" ...	"		"	£1 10 0		
2456B	Extra for cutting lengths to a margin of plus or minus $\frac{1}{8}$ " in addition to preceding extras listed	"		"	£1 5 0		
STEEL CHANNELS AND JOISTS							
(See also Items 2457A-2476A)							
Steel Channels (as specified in Appendix L)							
In lengths of 10' 0" to 40' 0" inclusive, as may be ordered							
2457	6" to 15" depth inclusive ...	"	2000 tons	"	£10 17 6		
2458	Under 6" to 4" depth inclusive ...	"		"	£11 10 0		
2459	3" x 1 $\frac{1}{2}$ " ...	"		"	£12 17 6		
Steel Joists (as specified in Appendix L)							
In lengths of 10' 0" to 40' 0" inclusive, as may be ordered							
2460	6" to 16" depth inclusive ...	"	100 tons	"	£10 17 6		
2461	Over 16" depth up to 20" depth ...	"		"	£11 7 6		
2462	22" x 7" ...	"		"	£11 12 6		
2463	24" x 7 $\frac{1}{2}$ " ...	"		"	£11 17 6		
2464	Under 6" to 4" inclusive ...	"		"	£11 7 6		
2465	3" x 2 $\frac{1}{4}$ " ...	"		"	£13 17 6		
Extra for long lengths of Channels and Joists							
2466	Over 40' 0" and up to 45' 0" ...	"		"	£0 5 0	The Broken Hill Pty. Co. Ltd.	
2467	Over 45' 0" and up to 50' 0" ...	"		"	£1 0 0		
2468	Over 50' 0" and up to 55' 0" ...	"		"	£1 5 0		
2469	Over 55' 0" and up to 60' 0" ...	"		"	£1 15 0		
2470	Over 60' 0" and up to 65' 0" ...	"		"	£2 5 0		
2471	Over 65' 0" and up to 70' 0" ...	"		"	£3 0 0		
2472	Over 70' 0" and up to 75' 0" ...	"		"	£3 10 0		
Extra for short lengths of Channels and Joists							
2473	Under 10' 0" down to 5' 0" ...	"		"	£0 10 0		
2474	Under 5' 0" down to 3' 0" ...	"		"	£1 0 0		
2475	Under 3' 0" ...	"		"	£1 10 0		
2476	Extra for cutting lengths of Channels and Joists to a margin of plus or minus $\frac{1}{8}$ " in addition to preceding extras listed	"		"	£1 5 0		

† Rates are c.i.f. Melbourne, and less 3 $\frac{1}{2}$ % discount.

ROLLED STEEL—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
STEEL CHANNELS AND JOISTS (See also Items 2457-2476)						
Steel Channels (as specified in Appendix L) In lengths of 10' 0" to 40' 0" inclusive, as may be ordered					£ s. d.	
2457A	6" to 15" depth inclusive ...	N.S.W.	Included in Items 2457-9	ton	†10 17 6	McPherson's Pty. Ltd.
2458A	Under 6" to 4" depth inclusive ...	"		"	†11 10 0	
2459A	3" x 1½" ...	"		"	†12 17 6	
Steel Joists (as specified in Appendix L). In lengths of 10' 0" to 40' 0" inclusive, as may be ordered						
2460A	6" to 16" depth inclusive ...	"	Included in Items 2460-2465	"	†10 17 6	McPherson's Pty. Ltd.
2461A	Over 16" depth up to 20" depth ...	"		"	†11 7 6	
2462A	22" x 7" ...	"		"	†11 12 6	
2463A	24" x 7½" ...	"		"	†11 17 6	
2464A	Under 6" to 4" inclusive ...	"		"	†11 7 6	
2465A	3" x 2½" ...	"				Nil
Extra for long lengths of Channels and Joists						
2466A	Over 40' 0" and up to 45' 0" ...	N.S.W.		ton	†0 5 0	McPherson's Pty. Ltd.
2467A	Over 45' 0" and up to 50' 0" ...	"		"	†1 0 0	
2468A	Over 50' 0" and up to 55' 0" ...	"		"	†1 5 0	
2469A	Over 55' 0" and up to 60' 0" ...	"		"	†1 15 0	
2470A	Over 60' 0" and up to 65' 0" ...	"		"	†2 5 0	
2471A	Over 65' 0" and up to 70' 0" ...	"		"	†3 0 0	
2472A	Over 70' 0" and up to 75' 0" ...	"		"	†3 10 0	
Extra for short lengths of Channels and Joists						
2473A	Under 10' 0" down to 5' 0" ...	"		"	†0 10 0	McPherson's Pty. Ltd.
2474A	Under 5' 0" down to 3' 0" ...	"		"	†1 0 0	
2475A	Under 3' 0" ...	"		"	†1 10 0	
2476A	Extra for cutting lengths of Channels and Joists to a margin of plus or minus ½" in addition to preceding extras listed	"		"	†1 5 0	
STEEL, ROUND AND SQUARE BARS.						
Mild Steel ROUND Bars (as specified in Appendix L). In lengths as may be ordered						
2477	½" to 3" diameter inclusive, excluding Dogspike steel	Vict.	300 tons	"	12 2 0	Melbourne Iron & Steel Mills Pty. Ltd.
2477A	¾" diameter, 18' to 20' lengths, for manufacture of Dogspikes	N.S.W.		"	†10 10 0	The Broken Hill Pty. Co. Ltd.
2477B	¾" diameter, 18' to 20' lengths, for manufacture of Dogspikes	"		"	†10 10 0	McPherson's Pty. Ltd.

† Rates are c.i.f. Melbourne, and less 3½% discount.

ROLLED STEEL—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	STEEL ROUND AND SQUARE BARS—continued.				£ s. d.	
2477c	Mild Steel ROUND Bars (as specified in Appendix L). In lengths as may be ordered—continued. $\frac{3}{4}$ " diameter, 18' to 20' lengths, for manufacture of Dogspikes	Vict.	300 tons	ton	12 2 0	Melbourne Iron & Steel Mills Pty. Ltd.
2478	Over 3" diameter up to 4" diameter ...	"		"	12 2 0	
2479	$\frac{3}{8}$ " diameter 10' 0" to 35' 0" lengths as may be ordered	N.S.W.		"	†10 10 0	The Broken Hill F. Co. Ltd.
2479A	$\frac{3}{8}$ " diameter " " ...	"		"	†10 10 0	McPherson's Pty. Ltd.
2480	$\frac{1}{2}$ " diameter " " ...	"		"	†12 0 0	The Broken Hill F. Co. Ltd.
2481	$\frac{1}{2}$ " diameter " " ...	"		"	†12 10 0	
2482	$\frac{3}{16}$ " diameter " " ...	"		"	...	Nil
2483	Mild Steel REINFORCING Rods (as specified in Appendix L). In lengths from 10' 0" to 35' 0" as may be ordered $\frac{3}{8}$ " diameter ...	N.S.W.		ton	†10 10 0	The Broken Hill F. Co. Ltd.
2483A	$\frac{3}{8}$ " diameter ...	"		"	†10 10 0	McPherson's Pty. Ltd.
2484	$\frac{5}{16}$ " diameter ...	"		"	†12 0 0	The Broken Hill F. Co. Ltd.
2485	$\frac{1}{2}$ " diameter ...	"		"	†12 10 0	
2486	Fishbolt Quality (as specified in Appendix V). In 18' to 20' lengths $\frac{7}{8}$ " or 1" diameter, as ordered	"	100 "	"	†10 10 0	The Broken Hill F. Co. Ltd.
2486A	$\frac{7}{8}$ " or 1" diameter, as ordered ...	"		"	†10 10 0	McPherson's Pty. Ltd.
2487	Mild Steel SQUARE Bars (as specified in Appendix L). In lengths from 10' 0" to 35' 0" as may be ordered $\frac{1}{2}$ " to 3" square ...	Vict.	75 "	"	12 2 0	Melbourne Iron & Steel Mills Pty. Ltd.
2488	Over 3" square ...	"		"	...	Nil
2489	$\frac{1}{16}$ " square ...	N.S.W.		ton	†11 0 0	The Broken Hill F. Co. Ltd.
2489A	$\frac{1}{16}$ " square ...	"		"	†11 0 0	McPherson's Pty. Ltd.
2490	$\frac{3}{8}$ " square ...	"		"	†11 0 0	The Broken Hill F. Co. Ltd.
2490A	$\frac{3}{8}$ " square ...	"		"	†11 0 0	McPherson's Pty. Ltd.
2491	$\frac{5}{16}$ " square ...	"		"	†13 10 0	The Broken Hill F. Co. Ltd.
2491A	$\frac{5}{16}$ " square ...	"		"	†13 10 0	McPherson's Pty. Ltd.
2492	Extra to the above rates (Items 2477-2478 and 2487) for the following Quality Differentials, ROUND or SQUARE. Low Carbon (Ingot Iron) Quality (as specified in Appendix Q)	Vict.	220 "	"	2 10 0	Melbourne Iron & Steel Mills Pty. Ltd.
2493	Rivet Quality (as specified in Appendix L). In sizes $\frac{1}{4}$ " less in diameter than nominal size of rivets	"	1000 "	"	0 17 6	
2493A	Rivet Quality (as specified in Appendix L) (for sizes in contract only, excluding Item 2477)	N.S.W.		"	†10 10 0	McPherson's Pty. Ltd.

† Rates are c.i.f. Melbourne, and less $3\frac{1}{2}\%$ discount.

ROLLED STEEL—continued

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	STEEL, ROLLED AND SQUARE BARS—continued.				£ s. d.	
	Extra to the above rates (Items 2477–2478 and 2487) for the following Quality Differentials, ROUND OR SQUARE—continued					
2494	Boiler Quality (as specified in Appendix P)	Vict.	30 tons	ton	0 15 0	Melbourne Iron & Steel Mills Pty. Ltd.
2494A	Boiler Quality (as specified in Appendix P) (for sizes in contract only, excluding Items 2477 and 2487)	N.S.W.		„	†0 10 0	McPherson's Pty. Ltd.
2495	Bescom Quality (Grade "B") as specified in Appendix R	Vict.	120 „	„	6 15 0	Melbourne Iron & Steel Mills Pty. Ltd.
2496	Carbon Spring Steel Quality (as specified in Appendix N). Rounds $\frac{3}{8}$ " dia. up to 3" dia.	N.S.W.	300 „	„	Full Contract Rate †15 17 6	The Broken Hill Pty. Co. Ltd.
2496A	Carbon Spring Steel Quality (as specified in Appendix N). Rounds $\frac{3}{8}$ " dia. and over	„		„	Full Contract Rate †15 17 6	McPherson's Pty. Ltd.
2496B	Carbon Spring Steel Quality (as specified in Appendix N).	Vict.		„	5 1 6	Melbourne Iron & Steel Mills Pty. Ltd.
2497	to 2506 (inclusive)—Nil.					
	Extra for short lengths					
2507	Extra for cutting to a margin of plus or minus $\frac{1}{8}$ " in addition to preceding extras listed	„		„	0 10 0	
	STEEL FLAT BARS					
	Mild Steel FLAT Bars (as specified in Appendix L). In lengths up to 60' 0" as may be ordered					
2508	1" wide up to 6" wide by $\frac{1}{4}$ " thickness and over, up to 1" thickness	„	1200 tons	„	12 2 0	Melbourne Iron & Steel Mills Pty. Ltd.
2509	1" wide up to 6" wide by $\frac{3}{16}$ " thickness ...	„		„	12 2 0	
2510	1" wide up to 2" wide by $\frac{5}{16}$ " thickness ...	„		„	12 2 0	
2511	1" wide up to 2" wide by $\frac{1}{2}$ " thickness ...	„		„	12 2 0	
2512	$\frac{3}{8}$ " wide by $\frac{5}{8}$ " and $\frac{1}{2}$ " thickness ...	„		„	12 2 0	
2513	$\frac{3}{8}$ " wide by $\frac{7}{16}$ " and $\frac{3}{8}$ " thickness ...	„		„	12 2 0	
2514	$\frac{7}{8}$ " wide by $\frac{5}{16}$ " thickness ...	„		„	12 2 0	
2515	$\frac{7}{8}$ " wide by $\frac{1}{4}$ " thickness ...	„		„	12 2 0	
2516	$\frac{7}{8}$ " wide by $\frac{3}{16}$ " thickness ...	„		„	13 2 0	
2517	$\frac{7}{8}$ " wide by $\frac{1}{8}$ " thickness ...	„		„	14 2 0	
2518	$\frac{3}{4}$ " wide by $\frac{5}{8}$ " and $\frac{1}{2}$ " thickness ...	„		„	12 2 0	
2519	$\frac{3}{4}$ " wide by $\frac{7}{16}$ " and $\frac{3}{8}$ " thickness ...	„		„	12 2 0	
2520	$\frac{3}{4}$ " wide by $\frac{5}{16}$ " thickness ...	„		„	12 2 0	
2521	$\frac{3}{4}$ " wide by $\frac{1}{4}$ " thickness ...	„		„	13 12 0	
2522	$\frac{3}{4}$ " wide by $\frac{3}{16}$ " thickness ...	„		„	14 2 0	
2523	$\frac{3}{4}$ " wide by $\frac{1}{8}$ " thickness ...	„		„	14 12 0	

† Rates are c.i.f. Melbourne, and 3½% discount.

ROLLED STEEL—continued.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate	Name of Contractor
	STEEL FLAT BARS—continued.				£ s. d.	
	Mild Steel FLAT Bars (as specified in Appendix L). In lengths up to 60' 0" as may be ordered—continued.					
2524	$\frac{3}{8}$ " wide by $\frac{7}{16}$ " and $\frac{3}{8}$ " thickness ...	Vict.	1200 tons	ton	13 2 0	Melbourne Iron & Steel Mills Pty. Ltd.
2525	$\frac{3}{8}$ " wide by $\frac{7}{16}$ " thickness ...	"		"	13 2 0	
2526	$\frac{3}{8}$ " wide by $\frac{1}{2}$ " thickness ...	"		"	13 12 0	
2527	Over 6" wide up to 9" wide by $\frac{1}{2}$ " thickness to 1" thickness	"		"	12 2 0	
2528	Over 9" wide up to 12" wide by $\frac{1}{2}$ " thickness to 1" thickness x 10' 0" to 35' 0" lengths	N.S.W.		"	†11 10 0	The Broken Hill Pty. Co. Ltd.
2528A	Over 9" wide up to 12" wide by $\frac{1}{2}$ " thickness to 1" thickness x 10' 0" to 35' 0" lengths	"		"	†11 10 0	McPherson's Pty. Ltd.
2529	Extra to the above rates (Items 2508-2527) for thicknesses over 1"	Vict.		"	no extra charge	Melbourne Iron & Steel Mills Pty. Ltd.
2529A	Extra for thicknesses over 1" (Item 2528A)	N.S.W.		"	† 0 10 0	McPherson's Pty. Ltd.
2530	10" and 12" wide by $\frac{3}{16}$ " thickness ...	...		...	...	Nil
	Extra to the above rates (Items 2508-2527 and 2529) for the following Quality Differentials					
2531	Low Carbon (Ingot Iron) Quality (as specified in Appendix Q)	Vict.	100 "	"	2 10 0	Melbourne Iron & Steel Mills Pty. Ltd.
2532	Bescom Quality (Grade "B") as specified in Appendix R	"	50 "	"	6 15 0	
2533	Carbon Steel Quality for Laminated Springs (as specified in Appendix M), any length ordered x 1" to 8" wide x $\frac{3}{16}$ " thick and over	N.S.W.	150 "	"	Full Contract Rate †15 7 6	The Broken Hill Pty. Co. Ltd.
2533A	Carbon Steel Quality for Laminated Springs (as specified in Appendix M), any length ordered x 1" to 6" wide x $\frac{3}{16}$ " thick and over	"		"	Full Contract Rate †15 7 6	McPherson's Pty. Ltd.
2533B	Carbon Steel Quality for Laminated Springs (as specified in Appendix M), any length ordered	Vict.		"	5 1 6	Melbourne Iron & Steel Mills Pty. Ltd.
2534	Carbon Steel Quality for Volute Springs (as specified in Appendix N), any length ordered x 1" to 8" wide x $\frac{3}{16}$ " thick and over	N.S.W.		"	Full Contract Rate †15 17 6	The Broken Hill Pty. Co. Ltd.
2534A	Carbon Steel Quality for Volute Springs (as specified in Appendix N), any length ordered x 1" to 6" wide x $\frac{3}{16}$ " thick and over	"	220 "	"	Full Contract Rate †15 17 6	McPherson's Pty. Ltd.
2534B	Carbon Steel Quality for Volute Springs (as specified in Appendix N), any length ordered	Vict.		"	5 1 6	Melbourne Iron & Steel Mills Pty. Ltd.
2534C	Silicon Chrome Quality for Volute Springs (as specified in Appendix X), any length ordered, 1" to 6" wide x $\frac{3}{16}$ " thick and over	"	80 "	"	6 16 6	
2535	Boiler Quality (as specified in Appendix P)	"		"	0 15 0	
2536	2539 (inclusive) Nil.	"		"		
2540	Extra for lengths over 60' 0" and up to 70' 0"	"		"	1 0 0	Melbourne Iron & Steel Mills Pty. Ltd.
2541	2544 (inclusive) Nil.	"		"		
2545	Extra for exact lengths—cutting to a margin of plus or minus $\frac{1}{4}$ "	"		"	0 10 0	
2546	5" x 1 $\frac{1}{2}$ " ROUND Edge to V.R. Drawing No. 7645 (as specified in Appendix W). In lengths as ordered, up to 17' 6", for Draft Keys	"	75 tons	"	Full Contract Rate 16 10 0	

† Rates are c.i.f. Melbourne, and less 3 $\frac{1}{2}$ % discount,

ROLLED STEEL—continued.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate	Name of Contractor
	STEEL FLAT BARS—continued.					
	Nut Quality Steel (as specified in Appendix S), or Mild Steel (as specified in Appendix L). In 18' 0" to 20' 0" lengths				£ s. d.	
2547	$\frac{7}{8}$ " x $\frac{9}{16}$ " for $\frac{1}{2}$ " nuts ...	N.S.W.	100 tons	ton	†10 10 0	McPherson's Pty. Ltd.
2547A	$\frac{7}{8}$ " x $\frac{9}{16}$ " for $\frac{1}{2}$ " nuts (Mild Steel) ...	Vict.		"	12 2 0	Melbourne Iron & Steel Mills Pty. Ltd.
2547B	$\frac{7}{8}$ " x $\frac{9}{16}$ " for $\frac{1}{2}$ " nuts (Nut quality) ...	"		"	14 12 0	
2548	$1\frac{1}{2}$ " x $\frac{1}{4}$ " for $\frac{5}{8}$ " nuts ...	N.S.W.		"	†10 10 0	McPherson's Pty. Ltd.
2548A	$1\frac{1}{2}$ " x $\frac{1}{4}$ " for $\frac{5}{8}$ " (Mild Steel) ...	Vict.		"	12 2 0	Melbourne Iron & Steel Mills Pty. Ltd.
2548B	$1\frac{1}{2}$ " x $\frac{1}{4}$ " for $\frac{5}{8}$ " nuts (Nut Quality) ...	"		"	14 12 0	
2549	$1\frac{7}{8}$ " x $\frac{5}{8}$ " for $\frac{3}{4}$ " nuts ...	N.S.W.		"	†10 10 0	McPherson's Pty. Ltd.
2549A	$1\frac{7}{8}$ " x $\frac{5}{8}$ " for $\frac{3}{4}$ " nuts (Mild Steel) ...	Vict.		"	12 2 0	Melbourne Iron & Steel Mills Pty. Ltd.
2549B	$1\frac{7}{8}$ " x $\frac{5}{8}$ " for $\frac{3}{4}$ " nuts (Nut quality) ...	"		"	14 12 0	
2550	$1\frac{3}{4}$ " x $\frac{3}{4}$ " for $\frac{7}{8}$ " nuts ...	N.S.W.		"	†10 10 0	McPherson's Pty. Ltd.
2550A	$1\frac{3}{4}$ " x $\frac{3}{4}$ " for $\frac{7}{8}$ " nuts (Mild Steel) ...	Vict.		"	12 2 0	Melbourne Iron & Steel Mills Pty. Ltd.
2550B	$1\frac{3}{4}$ " x $\frac{3}{4}$ " for $\frac{7}{8}$ " nuts (Nut quality) ...	"		"	14 12 0	
2551	$1\frac{9}{16}$ " x $1\frac{5}{8}$ " for 1" nuts ...	N.S.W.		"	†11 0 0	McPherson's Pty. Ltd.
2551A	$1\frac{9}{16}$ " x $1\frac{5}{8}$ " for 1" nuts (Mild Steel) ...	Vict.		"	12 2 0	Melbourne Iron & Steel Mills Pty. Ltd.
2551B	$1\frac{9}{16}$ " x $1\frac{5}{8}$ " for 1" nuts (Nut quality) ...	"		"	14 12 0	
2551C	Section bars for nuts over 1" as may be ordered	N.S.W.		"	†11 0 0	McPherson's Pty. Ltd.
	Bescom Quality (as specified in Appendix R)—					
2552	$1\frac{9}{16}$ " x $1\frac{5}{8}$ " for 1" Superheater Element Bolt Nuts	"		"	†15 17 6	Melbourne Iron & Steel Mills Pty. Ltd.
2552A	$1\frac{9}{16}$ " x $1\frac{5}{8}$ " for 1" Superheater Element Bolt Nuts	Vict.		"	18 17 0	
	SPECIAL SECTIONS.					
	Mild Steel Tyre Retaining Ring Bars (as specified in Appendix T)—					
2553	To V.R. Drawing No. 40.5 and to V.R. Gauge Drawing No. 48.2, in lengths as ordered	"	75 "	"	25 0 0	Melbourne Iron & Steel Mills Pty. Ltd.
2554	Channel to V.R. Drawing No. 40.6 and to V.R. Drawing No. 48.1, in lengths as ordered	"		"	22 0 0	
2555	To V.R. Drawing No. 6748, amended 10.8.31, in lengths as ordered	"		"	22 0 0	
2556	To V.R. Drawing No. 7761, in lengths as ordered (for Item 47B, 48B and 50B Tyres)	"		"	21 0 0	
2557	To V.R. Drawing No. 7762 in lengths as ordered (for Item 45, 45B, 46 and 46B Tyres)	"		"	21 0 0	
*2558	Mild Steel Interlocking Channel (as specified in Appendix L) in lengths from 12' to 23'	"	2 "	"	17 10 0	Melbourne Iron & Steel Mills Pty. Ltd.
*2559	Mild Steel Fishplate for Interlocking Channel (as specified in Appendix L) in lengths as ordered	"	10 "	"	17 10 0	
2560	Mild Steel Coping (as specified in Appendix L) 1" and $1\frac{1}{2}$ " x $\frac{1}{2}$ "	...	60 "	...	...	Nil

† Rates are c.i.f. Melbourne, and less 3½% discount.

ROLLED STEEL—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	SPECIAL SECTIONS.—continued.				£ s. d.	
	Regular Trapezoidal Carbon Steel Section—					
2561	1½" wide at base tapering to 1⅜" wide at top x 1½" high, (as specified in Appendix N) in any lengths as may be ordered. (For helical springs)	N.S.W.	60 tons	ton	†15 17 6	The Broken Hill Pty. Co. Ltd.
2562	1⅜" wide at base tapering to 1½" wide at top x ⅜" high in 18' to 20' lengths (as specified in Appendix O). (For spring washers for fishbolts)	"		"	†24 10 0	McPherson's Pty. Ltd.
2562A	1½" wide at base tapering to 1⅜" wide at top x ⅜" high in 18' to 20' lengths (as specified in Appendix O). (For spring washers for fishbolts)	Vict.		"	28 0 0	Melbourne Iron & Steel Mills Pty. Ltd.
	STEEL BILLETS, BLOOMS AND SLABS.					
	(See also Items 2563A-2579A.)					
	Billets, Blooms or Slabs, Forging Quality Class J, K, L, M, or P; Axle Quality Class S, T, or U; or Mild Steel (as specified in Appendix U) or Low Carbon (Ingot Iron) (as specified in Appendix Q); with rounded corners. In lengths of 4' 0" or over, as may be ordered					
	BILLETS AND BLOOMS					
2563	1½" square to 12" square ...	N.S.W.	750 "	"	†11 9 6	McPherson's Pty. Ltd.
2564	Over 12" square to 13" square ...	"		"	†11 19 6	
2565	Over 13" square to 14" square ...	"		"	†12 9 6	
2566	Over 14" square to 15" square ...	"		"	†13 9 6	
2567	Rounds up to 8" diameter ...	"		"	†12 9 6	
2568	Over 8" diameter to 9" diameter ...	"		"	†12 9 6	
2569	Over 9" diameter to 10" diameter ...	"		"	†12 9 6	
	SLABS.					
2570	2.25 sq. in. in area to 144 sq. in. ...	"	750 "	"	†11 9 6	McPherson's Pty. Ltd.
2571	Over 144 sq. in. in area to 169 sq. in. ...	"		"	†11 19 6	
2572	Over 169 sq. in. in area to 196 sq. in. ...	"		"	†12 9 6	
2573	Over 196 sq. in. in area to 225 sq. in. ...	"		"	†13 9 6	
	Extra to the above rates (Items 2563-2573) for the following Quality Differentials:—					
2574	Bescom Quality (Grade A or B) (as specified in Appendix R)	"	75 "	"	†1 0 0	
2575	Carbon Spring Steel Quality (as specified in Appendix M)	"	75 "	"	†1 0 0	
	Extra for short lengths					
2576	Under 4' 0" down to 3' 0" ...	"		"	†1 5 0	
2577	Under 3' 0" down to 2' 0" ...	"		"	†1 10 0	
2578	Under 2' 0" down to 1' 6" ...	"		"	†1 15 0	
2579	Under 1' 6" down to 1' 0" ...	"		"	†2 0 0	

† Rates are c.i.f. Melbourne, and less 3½% discount.

ROLLED STEEL.—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	STEEL BILLETS, BLOOMS AND SLABS.				£ s. d.	
	(See also Items 2563-2579)					
	Billets, Blooms or Slabs, Forging Quality Class J, K, L, M or P; Axle Quality Class S, T, or U; or Mild Steel (as specified in Appendix U); with rounded corners. In lengths of 4' 0" or over, as may be ordered.					
	Billets and Blooms.					
2563A	1½" square to 12" square ...	N.S.W.		ton	£11 9 6	The Broken Hill Pty. Co. Ltd.
2564A	Over 12" square to 13" square ...	"		"	£11 19 6	
2565A	Over 13" square to 14" square ...	"		"	£12 9 6	
2566A	Over 14" square to 15" square ...	"		"	£13 9 6	
2567A	Rounds up to 8" diameter ...	"		"	"	Nil. See Items 2567-2569
2568A	Over 8" diameter to 9" diameter ...	"		"	"	
2568A	Over 9" diameter to 9" diameter ...	"	Included in Items 2563-2573	"	"	
2569A	Over 9" diameter to 10" diameter ...	"		"	"	
	Slabs.					
2570A	2.25 sq. in. in area to 144 sq. in. ...	"		"	£11 9 6	The Broken Hill Hill Pty. Co. Ltd.
2571A	Over 144 sq. in. in area to 169 sq. in. ...	"		"	£11 19 6	
2572A	Over 169 sq. in. in area to 196 sq. in. ...	"		"	£12 9 6	
2573A	Over 196 sq. in. in area to 225 sq. in. ...	"		"	£13 9 6	
	Extra to the above rates (Items 2563A to 2566A and 2570A to 2573A) for the following Quality Differentials:—					
2574A	Bescom Quality (Grade A or B) (as specified in Appendix R)	"	Included in Items 2574, 2575	"	£1 0 0	The Broken Hill Hill Pty. Co. Ltd.
2575A	Carbon Spring Steel Quality (as specified in Appendix M)	"		"	£1 0 0	
	Extra for short lengths. ...	"		"		
2576A	Under 4' 0" down to 3' 0" ...	"		"	£1 5 0	
2577A	Under 3' 0" down to 2' 0" ...	"		"	£1 10 0	
2578A	Under 2' 0" down to 1' 6" ...	"		"	£1 15 0	
2579A	Under 1' 6" down to 1' 0" ...	"		"	£2 0 0	
	MILD STEEL PLATES.					
	(See also items 2580A-2612A)					
	Mild Steel Rectangular Plates (as specified in Appendix L) to any size ordered.					
2580	¾" thick and up to 2" thick x any width from 36" up to 84" x any length up to 30' 0"	"	See next page	"	£11 10 0	

† Rates are c.i.f. Melbourne, and less 3½% discount.

ROLLED STEEL—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	MILD STEEL PLATES—continued				£ s. d.	
	Mild Steel Rectangular Plates (as specified in Appendix L) to any size ordered—continued					
2581	$\frac{3}{8}$ " thick x any width from 36" to 78" x any length up to 30' 0"	N.S.W.	1100 tons	ton	£11 10 0	The Broken Hill Pty. Co. Ltd.
2582	$\frac{1}{2}$ " thick x any width from 36" to 66" wide x any length up to 30' 0"	"		"	£11 15 0	
2583	$\frac{1}{4}$ " thick x any width from 36" to 60" x any length up to 30' 0"	"		"	£12 0 0	
2584	$\frac{3}{16}$ " thick x any width from 36" to 60" x any length up to 30' 0"	"		"	£12 5 0	
2585	No. 7 B.G. (0.176") x any width or length ordered within the maximum sizes shown below	"		"	£13 0 0	
2586	No. 8 B.G. (0.157") x any width or length ordered within the maximum sizes shown below	"		"	£14 0 0	
2587	No. 9 B.G. (0.140") x any width or length ordered within the maximum sizes shown below	"		"	£14 10 0	
2588	No. 10 B.G. ($\frac{1}{8}$ ") x any width or length ordered within the maximum sizes shown below	"		"	£15 0 0	
	Maximum sizes of Plates 7 to 10 B.G. inclusive 60" wide by 22' 0" long 48" wide x 30' 0" long 36" wide x 36' 0" long					
	Extra to the above rates (Items 2580-2584) for WIDTH					
2589	$\frac{3}{8}$ " THICK Widths over 78" up to 84"	Nil
2590	$\frac{1}{2}$ " THICK Widths over 66" up to 72"	N.S.W.		ton	£ 0 5 0	The Broken Hill Pty. Co. Ltd.
2591	Widths over 72" up to 78"	"		"	£ 0 10 0	
2592	Widths over 78" up to 84"	Nil
2593	$\frac{1}{4}$ " THICK Widths over 60" up to 66"	N.S.W.		ton	£ 0 5 0	The Broken Hill Pty. Co. Ltd.
2594	Widths over 66" up to 72"	"		"	£ 0 10 0	
2595	Widths over 72" up to 78"	"		"	£ 0 15 0	
2596	Widths over 78" up to 84"	Nil
2597	$\frac{3}{16}$ " THICK Widths over 60" up to 66"	N.S.W.		ton	£ 0 15 0	The Broken Hill Pty. Co. Ltd.
2598	Widths over 66" up to 72"	"		"	£ 1 0 0	
2599	Widths over 72" up to 78"	"		"	£ 1 10 0	
2600	Widths over 78" up to 84"	Nil
	Extra to the above rates for NARROW PLATES all thicknesses, up to 30' 0" long					
2601	In widths under 36" down to 24"	N.S.W.		ton	£ 0 7 6	The Broken Hill Pty. Co. Ltd.
2602	In widths under 24" down to 18"	"		"	£ 0 12 6	
2603	In widths under 18" down to but not including 12"	"		"	£ 1 0 0	
	Extra to the above rates (Items 2580-2584 and 2589-2603) for LENGTH					
2604	Over 30' up to 40' ...	"		"	£ 0 12 6	

† Rates are c.i.f. Melbourne, and less 3½% discount.

ROLLED STEEL—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	MILD STEEL PLATES—continued.				£ s. d.	
	Mild Steel Rectangular Plates (as specified in Appendix L) to any size ordered—continued.					
	Extra to the above rates for— Small Rectangular Plates					
2605	$\frac{3}{8}$ " thick and over 8 sq. ft. but not including 12 sq. ft. ...	N.S.W.		ton	† 0 10 0	The Broken Hill Pty. Co. Ltd.
2606	4 sq. ft. but not including 8 sq. ft. ...	"		"	† 0 15 0	
2607	2 sq. ft. but not including 4 sq. ft. ...	"		"	† 1 10 0	
2608	1 sq. ft. but not including 2 sq. ft. ...	"		"	† 2 0 0	
2609	Under $\frac{3}{8}$ " thick 8 sq. ft. but not including 12 sq. ft. ...	"		"	† 0 15 0	
2610	4 sq. ft. but not including 8 sq. ft. ...	"		"	† 1 5 0	
2611	2 sq. ft. but not including 4 sq. ft. ...	"		"	† 2 0 0	
2612	1 sq. ft. but not including 2 sq. ft. ...	"		"	† 2 10 0	
	MILD STEEL PLATES. (See also Items 2580-2612.)					
2580A	Mild Steel Rectangular Plates (as specified in Appendix L) any size ordered. $\frac{7}{16}$ " thick and up to 2" thick x any width from 36" up to 84" x any length up to 30' 0"	"		"	† 11 10 0	McPherson's Pty. Ltd.
2581A	$\frac{3}{8}$ " thick x any width from 36" to 78" x any length up to 30' 0"	"		"	† 11 10 0	
2582A	$\frac{5}{16}$ " thick x any width from 36" to 66" wide x any length up to 30' 0"	"		"	† 11 15 0	
2583A	$\frac{1}{4}$ " thick x any width from 36" to 60" x any length up to 30' 0"	"		"	† 12 0 0	
2584A	$\frac{3}{16}$ " thick x any width from 36" to 60" x any length up to 30' 0"	"		"	† 12 5 0	
2585A	No. 7 B.G. (0.176") x any width or length ordered within the maximum sizes shown below	"	Included in Items 2580-2588	"	† 13 0 0	
2586A	No. 8 B.G. (0.157") x any width or length ordered within the maximum sizes shown below	"		"	† 14 0 0	
2587A	No. 9 B.G. (0.140") x any width or length ordered within the maximum sizes shown below	"		"	† 14 10 0	
2588A	No. 10 B.G. ($\frac{1}{8}$ " thick) x any width or length ordered within the maximum size shown below	"		"	† 15 0 0	
	Maximum sizes of Plates 7 to 10 B.G. inclusive					
	60" wide x 22' 0" long ...					
	48" wide x 30' 0" long ...					
	36" wide x 36' 0" long ...					

† Rates are c.i.f. Melbourne, and less 3½% discount.

ROLLED STEEL—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	MILD STEEL PLATES—continued. Mild Steel Rectangular Plates (as specified in Appendix I.) to any size ordered—continued.					
	Extra to the above rates (Items 2580A-2584A) for Width				£ s. d.	
2589A	$\frac{3}{8}$ " Thick Widths over 78" up to 84"	N.S.W.		ton	10 7 6	McPherson's Pty. Ltd.
2590A	$\frac{5}{16}$ " Thick Widths over 66" up to 72"	"		"	10 5 0	
2591A	Widths over 72" up to 78"	"		"	10 10 0	
2592A	Widths over 78" up to 84"	"		"	10 15 0	
2593A	$\frac{1}{2}$ " Thick Widths over 60" up to 66"	"		"	10 5 0	
2594A	Widths over 66" up to 72"	"		"	10 10 0	
2595A	Widths over 72" up to 78"	"		"	10 15 0	
2596A	Widths over 78" up to 84"	"		"	11 0 0	
2597A	$\frac{3}{16}$ " Thick Widths over 60" up to 66"	"		"	10 15 0	
2598A	Widths over 66" up to 72"	"		"	11 0 0	
2599A	Widths over 72" up to 78"	"		"	11 10 0	
2600A	Widths over 78" up to 84"	"		"	12 10 0	
2601A	Extra to the above rate for Narrow Plates, all thicknesses, up to 30' 0" long In widths under 36" down to 24"	"		"	10 7 6	
2602A	In widths under 24" down to 18"	"		"	10 12 6	
2603A	In widths under 18" down to but not including 12"	"		"	11 0 0	
2604A	Extra to the above rates (Items 2580A-2584A and 2589A-2603A) for Length Over 30' up to 40'	"		"	10 12 6	
2605A	Extra to the above rates for Small Rectangular Plates. $\frac{3}{8}$ " thick and over 8 sq. ft. but not including 12 sq. ft.	"		"	10 10 0	
2606A	4 sq. ft. but not including 8 sq. ft.	"		"	10 15 0	
2607A	2 sq. ft. but not including 4 sq. ft.	"		"	11 10 0	
2608A	1 sq. ft. but not including 2 sq. ft.	"		"	12 0 0	
2609A	Under $\frac{3}{8}$ " thick 8 sq. ft. but not including 12 sq. ft.	"		"	10 15 0	
2610A	4 sq. ft. but not including 8 sq. ft.	"		"	11 5 0	
2611A	2 sq. ft. but not including 4 sq. ft.	"		"	12 0 0	
2612A	1 sq. ft. but not including 2 sq. ft.	"		"	12 10 0	
2613A-2614A	Nil.					

† Rates are c.i.f. Melbourne, and $3\frac{1}{4}\%$ discount.

ROLLED STEEL—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor																																																							
	<p>BLACK STEEL SHEETS</p> <p>(Cold Rolled, Close Annealed)</p> <p>Black Steel Rectangular Sheets (as specified in Appendix L), any lengths or widths as may be ordered within the following maximum sizes :—</p> <table><tr><th rowspan="2">Gauge.</th><th colspan="3">Maximum.</th></tr><tr><th>L'gth</th><th>Width</th><th>Area</th></tr><tr><td></td><td>inches</td><td>inches</td><td>sq. ft.</td></tr><tr><td>8 and 9 B.G.</td><td>96</td><td>48</td><td>24</td></tr><tr><td>10 to 13 B.G. inclusive</td><td>120</td><td>48</td><td>32</td></tr><tr><td>14 and 15 B.G.</td><td>144</td><td>48</td><td>35</td></tr><tr><td>16 B.G.</td><td>192</td><td>48</td><td>48</td></tr><tr><td>17 and 18 B.G.</td><td>168</td><td>48</td><td>40</td></tr><tr><td>19 to 24 B.G.</td><td>144</td><td>48</td><td>42</td></tr><tr><td>25 and 26 B.G.</td><td>144</td><td>48</td><td>36</td></tr><tr><td>27 B.G.</td><td>144</td><td>42</td><td>30</td></tr><tr><td>28 B.G.</td><td>132</td><td>40</td><td>30</td></tr><tr><td>29 B.G.</td><td>120</td><td>38</td><td>30</td></tr><tr><td>30 B.G.</td><td>96</td><td>38</td><td>25</td></tr></table> <p>Note.—The maximum length and width cannot be supplied in the same sheet, only the maximum area. The latter divided by the length will give the maximum width for that length, and <i>vice versa</i>.</p>	Gauge.	Maximum.			L'gth	Width	Area		inches	inches	sq. ft.	8 and 9 B.G.	96	48	24	10 to 13 B.G. inclusive	120	48	32	14 and 15 B.G.	144	48	35	16 B.G.	192	48	48	17 and 18 B.G.	168	48	40	19 to 24 B.G.	144	48	42	25 and 26 B.G.	144	48	36	27 B.G.	144	42	30	28 B.G.	132	40	30	29 B.G.	120	38	30	30 B.G.	96	38	25				£ s. d.	
Gauge.	Maximum.																																																												
	L'gth	Width	Area																																																										
	inches	inches	sq. ft.																																																										
8 and 9 B.G.	96	48	24																																																										
10 to 13 B.G. inclusive	120	48	32																																																										
14 and 15 B.G.	144	48	35																																																										
16 B.G.	192	48	48																																																										
17 and 18 B.G.	168	48	40																																																										
19 to 24 B.G.	144	48	42																																																										
25 and 26 B.G.	144	48	36																																																										
27 B.G.	144	42	30																																																										
28 B.G.	132	40	30																																																										
29 B.G.	120	38	30																																																										
30 B.G.	96	38	25																																																										
					c.i.f. Melb.																																																								
2615	10 BG. (.125") and heavier, up to 8' 0" long, and up to 38" wide	N.S.W.	120 tons	ton	18 10 0	Briscoe & Co. Ltd.																																																							
2616	11 BG. (.111") to 20 BG. (.039"), up to 8' 0" long, and up to 38" wide	"		"	19 0 0																																																								
2617	21 BG. (.035") to 24 BG. (.025"), up to 8' 0" long, and up to 38" wide	"		"	19 15 0																																																								
2618	25 BG. (.022") to 26 BG. (.019"), up to 8' 0" long, and up to 38" wide	"		"	20 12 6																																																								
2619	27 BG. (.017" to 28 BG. (.016"), up to 8' 0" long, and up to 38" wide	"		"	21 2 6																																																								
2720	29 BG. (.014"), up to 8' 0" long, and up to 38" wide	"		"	21 12 6																																																								
2621	30 BG. (.012"), up to 8' 0" long, and up to 38" wide	"		"	22 2 6																																																								
	Extra to the above rates (Items 2615-2621) for the following—																																																												
	Extras for LENGTH																																																												
2622	Over 8' 0" long up to 9' 0"	"		"	0 10 0	Briscoe & Co. Ltd.																																																							
2623	Over 9' 0" long up to 10' 0"	"		"	1 0 0																																																								
2624	Over 10' 0" long up to 11' 0"	"		"	1 10 0																																																								
2625	Over 11' 0" long up to 12' 0"	"		"	2 0 0																																																								
2626	Over 12' 0"	"		"	Nil																																																								
	Extras for WIDTH																																																												
2627	Over 38" wide up to 42"	N.S.W.		ton	0 10 0	Briscoe & Co. Ltd.																																																							
2628	Over 42" wide up to 48"	"		"	0 12 6																																																								

ROLLED STEEL—continued.

Item No.	Description	Country of Manufacture	Estimated Requirements	Rate per	Rate	Name of Contractor
	BLACK STEEL SHEETS—continued.				£ s. d.	
	Extras for the following quality Differentials in addition to preceding extras listed—					
2629	Blue Oxide Annealed finish		} Nil
2630	10 BG. and heavier ... ..			...
2631	Lighter than 10 BG. ... ..			...
2632	Panel Sheets ... ..			...
2633	10 BG. and heavier ... ..			...
2634	Lighter than 10 BG.		} Briscoe & Co. Ltd.
2635	Deduction for Mill Finished Sheets. (Hot roll finished and unannealed)	N.S.W.		ton	{ Minus 1 0 0	
	Process extras, in addition to preceding extras listed					
2636	Reshearing to exact size (plus or minus $\frac{1}{16}$ ")	"		"	2 0 0	
2637	Cropping (cutting off of flattening machine grip marks)	"		"	1 10 0	
2638	Fully reshearing (covers cropping and reshearing)	"		"	3 0 0	
2639	2759—Nil					

MINERAL LUBRICATING OILS

(See Appendix "J" for Specification).

(Period 1/10/34 to 30/6/35.)

The different classes of oil required shall be supplied in containers branded "Super. Cyl. Oil," "Sat. Cyl. Oil," "Sum. Bear," "Win. Bear," "C. & W.," "Car," as the case may be.

Payment.—Payment will be on gallonage calculated on net weight ascertained by approved methods by the Comptroller of Stores or his representative at the place of delivery, and the specific gravity ascertained in the Victorian Railways Laboratory from samples drawn from such delivery.

† With the exception of Items 2762A, 2763A and 2765C, the rates do not include Exchange between Australia and London, and are based on the following rates of conversion between London and the country of production:—London—New York conversion 4.86 $\frac{1}{2}$ dollars to the £1 sterling. Items 2752 and 2753—London—Japan conversion one yen equalling 1/2 $\frac{3}{4}$ sterling.

T.T. Exchange and variation in conversion are to the Corporation's account and the contract rate is to be adjusted by adding or deducting the rate of exchange and/or conversion operating on the date of delivery between Australia and the country of production in the following manner:—

For each item, a factor in pence is shown. This is to be multiplied by the percentage of exchange ruling on the date of delivery between Australia and the country of production shown and the result will determine the amount to be added to or deducted from the contract rate per gallon. As regards Items 2761, 2762 and 2763, it will be noted that the computation is to be made on certain percentages of the factors. In this connection it will be noted that the London—Japan conversion rate included in the contract is 1 yen equalling 1/2 $\frac{3}{4}$ sterling for Items 2762 and 2763.

As regards Items 2762 and 2763, two factors are shown, and they are to be used separately for calculating the Australia—New York and Australia—Japan Exchange respectively.

The rate of exchange and conversion notified by the Commonwealth Bank of Australia as ruling on the date of delivery to the Corporation will in all cases be adopted.

Excepting Items 2764 and 2765, all rates in this Schedule include wharfage, and where time for importation can be allowed, the Contractors should be requested to have the Bill of Lading made out in the name of the Victorian Railways Commissioners so that wharfage may be saved and the amount involved deducted from the Contractor's invoice, in addition to obtaining the benefit of the lower contract rate for delivery ex wharf in the case of Item 2765b.

Item 2764—2765, the rates cover delivery ex store. No deduction is to be made for wharfage.

The contract rates cover delivery direct to the Oil Store, Newport, if so ordered.

MINERAL LUBRICATING OILS—continued.

Item 2760a is provided for the use of the State Rivers and Water Supply Commission.

As regards Items 2762A and 2763A, trial orders are to be placed with Ramsay and Treganowan Ltd., and if results are satisfactory it is expected this Contractor will be allotted up to about 15% of the estimated requirements for these oils.

As regards Items 2765 and 2765C, orders should as far as possible be placed with the Contractors so that the respective estimated quantities may be realised.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Locomotive Cylinder Oil, Specification L.1, Superheater Steam—	U.S.A. and Vict.			£ s. d.	
†2760	"C.796" in 40-44-gallon drums ...		15,000 gals.	gallon	£0 2 7½	} Vacuum Oil Co. Pty. Ltd.
†2760A	Exchange Factor .174d. gallon "600 W." in 40-44-gallon drums ... Exchange Factor .21d. gallon (for use by State Rivers and Water Supply Commission)	"	2000 "	"	£0 3 4	
†2761	Locomotive Cylinder Oil, Specification L.1, Saturated Steam—"Atlantic" In 40-44-gallon black drums ... Exchange Factor 95 per cent. of .178d. gallon	"	12,000 "	"	£0 2 5½	Atlantic Union Oil Co. Ltd.
†2762	Locomotive Bearing Oil, Specification L.2, Summer— "Shell" in 40-44-gallon iron drums ... Exchange Factor 80 per cent. of .028d. gallon U.S.A. and 20 per cent. of .25d. gallon Japan	U.S.A. and Japan	} 7500 "	"	£0 1 10½	The Shell Co. of Aust. Ltd.
†2762A	Summer— "XL" in 40-44-gallon iron drums ...	U.S.A. Japan and Vict.		"	0 1 11½	Ramsay and Treganowan Ltd.
†2763	Winter— "A. Shell" in 40-44-gallon drums ... Exchange Factor 87½ per cent. of .035d. gallon U.S.A. and 12½ per cent. of .25d. gallon Japan	U.S.A. and Japan	} 7500 "	"	£0 1 8½	The Shell Co. of Aust. Ltd.
†2763A	"XL" in 40-44-gallon drums ...	U.S.A., Japan & Vict.		"	0 1 11	Ramsay and Treganowan Ltd.
†2764	Car and Wagon Axle Oil (Black Oil), Specification L.3— "B.817" in 40-44-gallon drums ex store Exchange Factor .072d. gallon	U.S.A.	9000 "	"	£0 1 4½	Vacuum Oil Co. Pty. Ltd.
†2765	Car Oil (Red Oil), Specification L.3A— Winter— "L.9" in drums ex store Exchange Factor .082d. gallon	"	34,000 "	"	£0 1 4½	Vacuum Oil Co. Pty. Ltd. (Socony Division)
†2765A	Summer— "P.982" in 40-44-gallon drums ex store Exchange Factor .115d. gallon	"	} 10,000 "	"	£0 1 8½	} Vacuum Oil Co. Pty. Ltd.
†2765B	Summer— "P.982" in 40-44-gallon drums ex wharf Exchange Factor .115d. gallon	"		"	£0 1 7½	
†2765C	"XL Red Axle" in 40-44-gallon drums	U.S.A. and Vict.	1000 "	"	0 1 4½	Ramsay and Treganowan Ltd.

GREASES

(See Appendix K for Specifications)

(Period—1/10/34—30/6/35)

14. SPECIFICATION FOR PARAFFIN WAX.—Item No. 2788.

The Paraffin Wax shall be a pure petroleum of shale product of the very best quality, free from color, mineral acid or alkali, and mineral matter. The Paraffin Wax shall have a freezing point of not less than 135 degrees Fahrenheit when tested, in accordance with the standard method of the American Society for Testing Materials.

The Paraffin Wax shall be packed in cotton wrappers inside single gunny bags and delivered at the Newport Workshops.

Orders for Paraffin Wax are to be placed in minimum lots of 1 ton., and sufficient time allowed for importation. The contract rates 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. Six weeks are to be allowed for delivery.

††The rates for Paraffin Wax are firm for deliveries up to 1/1/35 and thereafter will be subject to market fluctuations in accordance with the selling rate in force for Paraffin Wax 135/40° when each delivery arrives in Melbourne.

15. † With the exception of Items 2779, 2786, 2788 and 2788A the rates do not include Exchange between Australia and London, and are based on the par rate of conversion between London and the countries of production. London—New York conversion to be based on 4/86½ dollars to the £1 sterling.

As regards Item 2777, T.T. Exchange between Australia and London only will apply.

The Contract rates will be adjusted to cover the rates of Exchange and/or conversion operating on the date of delivery between Australia and the country of production in the following manner.

For each item a factor in pence is shown. This will be multiplied by the percentage of exchange ruling on the date of delivery between Australia and the country of production shown in tender. The result will determine the amount by which the Contract rate, per gallon, lb. or cwt., as the case may be, is to be increased or decreased.

The rate of Exchange and conversion notified by the Commonwealth Bank of Australia as ruling on the date of delivery to the Corporation will in all cases be adopted.

More than one tender has been accepted for each of the following items and provided satisfactory service is rendered the business should be allotted as follows:—

Items 2772 and 2772A	} 50% to each Contractor.
„ 2773 and 2773A	
„ 2774 and 2774A	} Atlantic Coy. 80%
„ 2775 and 2775A	
„ 2776 and 2776A	} H. C. Sleigh 20%
„ 2788 and 2788A	
„ 2788 and 2788A	} Shell Coy. 60%
„ 2788 and 2788A	
„ 2788 and 2788A	} Vacuum Coy. 40%
„ 2788 and 2788A	

Estimated quantities have been amended accordingly.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
†2771	Specification M1; Grease suitable for lubrication of Gears, Conveyors, Compression Cups, in barrels "Voco Dark Gear" Exchange Factor '007d. lb. Specification M2; Grease, suitable for use in lubrication of road and rail motor chassis parts, gears, and of such parts of Motor Equipment and other machinery as are lubricated by means of compression cups. (Items Nos. 2772-2773A may also be used for Ball Bearings, grease packed or lubricated with grease gun. Items Nos. 2774 to 2776A may also be used for Ball Bearings lubricated with compression cups)—	U.S.A. & Vict.	100 cwt.	cwt.	£ s. d. †1 1 3	Vacuum Oil Co. Pty. Ltd.
†2772	Grease, Cup, No. 2, in 5lb tins "Atlantic" Exchange Factor '0225d. lb.	U.S.A. & Vict.	2½ "	lb.	†0 0 5½	Atlantic Union Oil Co. Ltd.
†2772A	Grease, Cup, No. 2, in 5lb tins, "Summit" Exchange Factor '01d. lb.	„	2½ "	„	*†0 0 4½	H. C. Sleigh

GREASES—continued.

Item No.	Description	Country of Manuf're	Estimated Requirements	Rate per	Rate	Name of Contractor
	Specification M2, etc.—continued				£ s. d.	
†2773	Grease, Cup, No. 2, in barrels "Atlantic" Exchange Factor '0225d. lb.	U.S.A. & Vict.	15 cwt.	cwt.	†1 12 8	Atlantic Union Oil Co. Ltd.
†2773A	Grease, Cup, No. 2, in barrels, "Summit" Exchange Factor '01d. lb.	"	15 "	"	†1 7 0.	H. C. Sleight
†2774	Grease, Cup, No. 3, in 5lb. tins "Atlantic" Exchange Factor '0225d. lb.	"	24 "	lb.	†0 0 5½	Atlantic Union Oil Co. Ltd.
†2774A	Grease, Cup, No. 3, in 5lb. tins, "Summit" Exchange Factor '013d. lb.	"	6 "	"	†0 0 4½	H. C. Sleight
†2775	Grease, Cup, No. 3, in 36 lb. containers "Atlantic" Exchange Factor '0225d. lb.	"	32 "	"	†0 0 4	Atlantic Union Oil Co. Ltd.
†2775A	Grease Cup, No. 3, in 36 lb. containers "Summit" Exchange Factor '013d. lb.	"	8 "	"	†0 0 3½	H. C. Sleight
†2776	Grease, Cup, No. 3, in barrels "Atlantic" Exchange Factor '0225d. lb.	"	4 "	cwt.	†1 12 8	Atlantic Union Oil Co. Ltd.
†2776A	Grease Cup, No. 3, in barrels, "Summitt" Exchange Factor '013d. lb.	"	1 "	"	†1 7 3	H. C. Sleight
†2777	Grease, Cup, No. 4 (Pantograph Collector), in barrels, "Voco" Exchange Factor '024d. lb.	U.K.	60 "	"	†1 19 3	Vacuum Oil Co. Pty. Ltd.
†2778	Grease, Cup, No. 5, in 5lb. tins, "Atlantic" Exchange Factor '034d. lb.	U.S.A. & Vict.	50 lb.	lb.	†0 0 6½	Atlantic Union Oil Co. Ltd.
†2779	Specification M3: Grease, Antifriction, for lubrication of Rough Machinery, Rails, Switches, Curves and other purposes, in 40 lb. tins "XL," Dark	Vict.	20 cwt.	cwt.	0 13 9	Ramsay & Treganowan Ltd.
†2780	Grease, Lubricating, "TN Brake Cylinder," for lubrication of Westinghouse Brake Cylinders and Triple Valves, to specification, in drums Exchange Factor '187d. gal.	U.S.A.	650 gals.	gal.	†0 2 5½	Vacuum Oil Co. Pty. Ltd. (Socony Div.)
†2781	Grease, Compound, for Locomotive Journals, to specification, in 100 lb. cases "Texaco Driving Journal Compound M" Exchange Factor '018d. lb.	"	1800 lb.	lb.	†0 0 6½	Texas Co. (Australasia) Ltd.
†2782	Grease, Compound, for Locomotive Crank and Coupling Rod Pins, to specification, in barrels, "Shell" Exchange Factor '018d. lb.	U.S.A. & Vict.	4000 lb.	"	†0 0 6½	The Shell Co. of Australia Ltd.
†2782A	Grease, Compound, for Locomotive Crank and Coupling Rod Pins, to specification, in barrels, "Texaco Rod Cup Grease" Exchange Factor '018d. lb.	U.S.A.	"	"	†0 0 6½	Texas Co. (Australasia) Ltd.
†2783	Compound, Lubricating, for use in the open gears of wheel lathes and other heavy machines, in 36 lb. tins "Crater Compound No. 2" Exchange Factor '013d. lb.	"	400 "	"	†0 0 2½	
†2784	Petroleum Jelly, to Specification for Tarpaulin dressing and for use by Country Roads Board, in barrels approx. 5 cwt. each, "Shell Crude" Exchange Factor '013d. lb.	"	25,000 "	"	†0 0 1½	The Shell Co. of Australia Ltd.
†2785	Petroleum Jelly, to Specification in 36 lb. tins, "Shell Crude" Exchange Factor '013d. lb.	"	144 "	"	†0 0 2½	
†2786	Petroleum Jelly (Amber), for use on Accumulators and Dynamo Bearings, in 5 lb. tins, "XL Light Amber"	U.K.	300 "	"	0 0 4	Ramsay & Treganowan Ltd.
†2787	Petroleum Jelly (Vaseline), for use of Ambulance, in 5 lb. tins, "Shell Pale Yellow" Exchange Factor '017d. lb.	U.S.A.	15 "	"	†0 0 5½	Shell Co. of Australia Ltd.
†2788	Wax, Paraffin, for Tarpaulin Dressing, to Specification	D.E. Indies	48,000 "	"	†10 0 4½	
†2788A	Wax, Paraffin, for Tarpaulin Dressing, to Specification, "NKPM Co."	Sumatra	32,000 "	"	†10 0 4½	Vacuum Oil Co. Pty. Ltd.

APPENDIX "A".

OILS, VARIOUS.

7. MOTOR ENGINE OILS.—SPECIFICATION L4—Items 1 to 13.

Scope.—This Specification covers the grade of petroleum oil required for the lubrication of Internal Combustion Engine Cylinders and Refrigerating Machinery.

Seven grades are specified known as extra light, light, medium, heavy medium, heavy, extra heavy and extra heavy special, and the order or Contract shall state the grade of oil required and the purpose for which it is to be used.

Manufacture.—The oil shall be a thoroughly refined, filtered petroleum oil, without the admixture of fatty oils, resins, soaps and other compounds.

Properties and Tests.—The oil shall be free from mineral acids and alkali, and asphaltic, tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder:—

	Viscosity at 140° Dynes per sq. c.m.		Fire Point Degrees F.	Pour Point Degrees F.	Carbon Residue Per Cent.
	Maximum	Minimum	Minimum	Maximum	Maximum
Extra Light	15	12	370	0	0.05
Light	25	18	400	10	10
Medium	35	25	430	15	40
Heavy Medium	50	35	470	20	50
Heavy	65	50	500	25	70
Extra Heavy	85	65	530	30	90
Extra Heavy Special	120	95	570	35	100

Special Tests.—The oils submitted under this Specification will be submitted to tests to determine the following properties:—

Specific Gravity, 15.5° C./15.0° C.,
Viscosity at 70° F., dynes per sq. cm.,
Viscosity at 100° F., dynes per sq. cm.,
Viscosity at 140° F., dynes per sq. cm.,
Fire Point,

Pour Point,
Volatility,
Carbon Residue,
Ash,
Organic Acidity,

and consideration will be given to the results obtained in deciding the oil to be accepted.

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.

Information to be supplied by Tenderer.—Items Nos. 1 to 16.—The tenderer shall supply the following information regarding the Oil he tenders to supply:—

Specific Gravity, 15.5° C./15.0° C.

Viscosity at 70° F., dynes per square cm.

" 100° F., " " " "

" 140° F., " " " "

" 200° F., " " " "

Fire Point, degrees F.

Pour Point, degrees F.

Volatility, 2 hours at 250° F., per cent.

Carbon Residue, per cent.

Ash, per cent.

Organic Acidity, per cent.

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such samples shall be accepted as accurately representing the quality of each delivery.

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, etc."

8. KEROSENE ENGINE OILS.—SPECIFICATION L4A—Item 17.

Scope.—This Specification covers the grade of petroleum oil required for the lubrication of Kerosene Engine Cylinders.

Manufacture.—The oil shall be a thoroughly refined, filtered petroleum oil with the addition of acidless animal oil.

APPENDIX "A"—continued.

OILS VARIOUS—continued.

Properties and Tests.—The oil shall be free from mineral acids and alkali, and asphaltic, tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder :—

Grade	Viscosity at 140°.		Fire Point	Sapon Matter	Pour Point	Carbon Residue
	Maximum	Minimum	Minimum	Maximum	Maximum	Maximum
Medium ...	0.35	0.28	390	8		

Special Tests.—The oils submitted under this Specification will be submitted to tests to determine the following properties :—

Specific Gravity, 15.5° C./15.0° C.,
 Viscosity at 70° F., dynes per sq. cm.,
 Viscosity at 100° F., dynes per sq. cm.,
 Viscosity at 140° F., dynes per sq. cm.,
 Fire Point,
 Pour Point,
 Volatility,
 Carbon Residue,
 Ash,
 Organic Acidity,
 Saponifiable Matter,

and consideration will be given to the results obtained in deciding the oil to be accepted.

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.

Information to be supplied by Tenderer.—Item No. 17.—The tenderer shall supply the following information regarding the Oil he tenders to supply :—

Specific Gravity, 15.5° C./15.0° C. ...
 Viscosity at 70° F., dynes per square cm. ...
 " 100° F., " " " " ...
 " 140° F., " " " " ...
 " 200° F., " " " " ...
 Fire Point, degrees F. ...
 Pour Point, degrees F. ...
 Volatility, 2 hours at 200° F., per cent. ...
 Carbon Residue, per cent. ...
 Ash, per cent. ...
 Organic Acidity, per cent. ...
 Saponifiable Matter, per cent. ...

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of each delivery.

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, etc."

9. MACHINERY OILS.—SPECIFICATION L5—Items 18 to 24.

Scope.—This Specification covers the grade of petroleum oil required for the lubrication of Bearings of Machinery. This oil is not to be used for steam cylinder lubrication.

Six grades are specified, known as extra light, light, medium, heavy, extra heavy and extra heavy special.

Manufacture.—The oil shall be a refined petroleum oil, without the admixture of fatty oils, resins, soaps or other compounds not derived from crude petroleum, and must be entirely free from fillers.

Properties and Tests.—The oil shall be free from mineral acid and alkali, and asphaltic, tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder :—

	Viscosity at 140° F., dynes per sq. cm.		Fire Point, degrees Fahr.	Pour Point, degrees Fahr.
	Maximum	Minimum	Minimum	Maximum
Extra Light ...	0.15	0.12	370	30
Light ...	0.25	0.18	380	30
Medium ...	0.35	0.28	390	30
Heavy ...	0.50	0.38	400	30
Extra Heavy ...	0.80	0.55	410	40
Extra Heavy Special ...	1.50	0.85	450	40

APPENDIX "A"—continued.

OILS, VARIOUS—continued.

Special Tests.—The oils submitted under this Specification will be subjected to tests to determine the following properties :—

Specific Gravity at 15.5° C./15.0° C.,	Fire Point,
Viscosity at 70° F., dynes per sq. cm.,	Pour Point,
Viscosity at 100° F., dynes per sq. cm.,	
Viscosity at 140° F., dynes per sq. cm.,	

and consideration will be given to the results obtained in deciding the oil to be accepted.

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.

Information to be supplied by Tenderer.—Items Nos. 18 to 24.—The tenderer shall supply the following information regarding the Oil he tenders to supply :—

Specific Gravity, 15.5° C./15.0° C.	...	...	...
Viscosity at 70° F., dynes per square cm.	...	...	...
" 100° F., " " " "	...	...	...
" 140° F., " " " "	...	...	...
" 200° F., " " " "	...	...	...
Fire Point, degrees F.	...	...	...
Pour Point, degrees F.	...	...	...

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such samples shall be accepted as accurately representing the quality of each delivery.

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, etc."

10. SPECIFICATION L5A.—Items Nos. 25 and 26.

Scope.—This Oil covers the grade of petroleum oil required for the lubrication of bearings of marine steam engines.

One grade known as light is specified.

Manufacture.—The Oil shall be a refined petroleum product. The tenderer shall state the amount of saponifiable matter which it contains.

Properties and Tests.—The Oil shall be free from mineral acids and alkali and asphaltic, tarry or suspended matter, and in other respects shall comply with the conditions mentioned hereunder :—

Viscosity in dynes per sq. cm. at 140 deg. Fah.
Minimum 24.
Maximum 33.

Special Tests.—The Oils submitted under this specification will be subjected to tests to determine the following properties :—

Specific Gravity 15.5 deg. Cent./15 deg. Cent.
Viscosity at 70 deg. Fah. dynes per sq. cm.
100 deg. Fah. " "
140 deg. Fah. " "
210 deg. Fah. " "

Fire Point,
Pour Point,
Saponifiable matter,
Emulsification,

and consideration will be given to the results obtained in deciding the oil to be accepted.

Information to be supplied by Tenderer.—The tenderer shall supply the values of the above mentioned properties of the Oil he tenders to supply.

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of each delivery.

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

11. TURBINE AND COMPRESSOR OILS.—SPECIFICATION L6—Items 27 to 30A.

Scope.—This Specification covers the grade of petroleum oil required for the lubrication of Turbines, Air Compressors and Machinery on which the circulating system of lubricating is employed.

Manufacture.—The oil shall be a thoroughly refined filtered petroleum oil, without the admixture of fatty oils, resins, soaps and other compounds.

The Tenderer shall state what compounding matter has been used.

APPENDIX "A"—continued.

OILS, VARIOUS—continued.

Special Tests.—Oils submitted under this Specification will be subjected to tests to determine the following properties :—

Specific Gravity, 15.5° C./15.0° C.,	Pour Point,	Saponification Value
Viscosity-at 70° F., dynes per sq. cm.,	Volatility,	Ageing and Sludging,
Viscosity at 100° F., dynes per sq. cm.,	Carbon Residue,	Corrosion
Viscosity at 140° F., dynes per sq. cm.,	Ash,	Dielectric Strength,
Fire Point,	Organic Acidity,	

and consideration will be given to the results obtained in deciding the oil to be accepted.

Corrosion.—A copper strip shall not appear discoloured when heated in the oil to 150° F.

Ageing and Sludging.—The oil when heated to and maintained at 300° F. in the presence of air and copper for 45 hours shall not show more than 0.1 per cent. of sludge in Transformer Oil.

Dielectric Strength.—When tested between spherical electrodes 0.5 in. diameter, 0.15 in. apart, the oil must withstand a pressure of 30,000 volts without breakdown.

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.

Information to be supplied by Tenderer.—Item No. 31.—The tenderer shall supply the following information regarding the Oil he tenders to supply :—

Specific Gravity, 15.5° C./15.0° C.	.....
Viscosity at 70° F., dynes per square cm.	.....
" 100° F., " " "	.....
" 140° F., " " "	.....
" 200° F., " " "	.....
Fire Point, degrees F.	.....
Pour Point, degrees F.	.....
Volatility, 8 hours 212 F., per cent.	.....
Carbon Residue, per cent.	.....
Ash, per cent.	.....
Organic Acidity, per cent.	.....
Saponification Value, per cent.	.....
Ageing and Sludging, per cent.	.....
Corrosion	.....
Dielectric Strength, volts	.....

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

When sampling, scrupulous care must be taken to use only clean containers, etc., and to avoid any contamination of the sample.

Method of Testing.—With the exception of the volatility test, the sample shall be tested according to the methods described in "Circular of the Australian Railways: Testing of Lubricating, Illuminating and Fuel Oils, etc."

13. CASTOR OIL.—SPECIFICATION L8—Items 32 and 32A.

Scope.—This Specification covers Castor Oil required for use as a lubricant.

Manufacture.—The oil shall be a pure oil extracted from castor seed, refined and clarified by an approved process.

Properties and Tests.—The oil shall be clear and free from sediment and flocs, and in other respects shall comply with the condition mentioned hereunder :—

Acidity, per cent. Oleic Acid, maximum ... 3.0

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

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, etc."

APPENDIX "B".

WIRE (IRON AND STEEL).

BLACK STEEL WIRE.—Item No. 470.

7. The Mild Steel Wire under Item 470 shall be of the best quality mild steel, and shall be free from rust and injurious defects of any kind.

A test piece of the Wire must withstand, without fracture, being doubled over, cold, until the internal radius is not greater than $1\frac{1}{4}$ times the thickness of the test piece and the sides are parallel.

The Wire shall be supplied in coils.

The Wire shall be not more than 0.003 inches under, nor more than 0.003 inches over the specified diameter.

SPECIFICATION FOR GALVANIZED STEEL STRANDED WIRE.—Item No. 471.

8. **General Particulars.**—The stranded Wire shall be made up of (7) seven steel wires each of 0.144 inch diameter. Each length of wire shall be free from splices, and should it be necessary to weld joints in individual wires, the welded joints shall be as strong as the rest of the wire, each wire shall be free from scale, inequalities, spills, splits and other defects. Each wire shall be smoothly galvanized and the mechanical properties of the steel shall not be adversely affected by this process. The outer layer shall be wound in the direction as shown on Drawing No. F. 1586.

9. **Tests after Delivery.**—A sample piece of wire may be taken from each drum at the option of the receiving Officer and subjected to the undermentioned tests (a), (b), (c) and (d). In the event of a sample of the wire from any drum not passing these tests, a second and a third sample shall be taken from the same drum, and if one of these also fail under test the drum from which it is taken shall be rejected:—

- (a) **Tensile.**—The wires shall have a tensile breaking strength of not less than 45 tons per square inch and not more than 55 tons per square inch with an elongation of not less than 3 per cent. in a length of 10 inches.
- (b) **Galvanizing.**—The quality of the galvanizing after stranding will be tested by immersing sample pieces of the wire in a freshly made neutral solution of sulphate of copper saturated at 60 degrees F., and allowing them to remain in the solution for one minute, after which they will be withdrawn, plunged into clean water, and wiped clean. The galvanizing shall admit to this process being performed with each sample not less than three times without there being any signs of a reddish deposit of metallic copper on the wires. Not more than three pieces of wire are to be immersed in the solution at one and the same time.
- (c) Sample pieces of the galvanized wire shall bear winding round a bar $1\frac{1}{4}$ inches in diameter without the galvanized surface showing signs of cracking.
- (d) Any individual wire of the galvanized steel strand shall bear winding round a rod of $\frac{1}{2}$ inch diameter without the steel wire showing signs of fracture.

10. **Contractor to be Given Notice of Tests.**—Any tests necessary to ascertain whether the wire supplied complies with this specification, will be carried out by the Receiving Officer. The Contractor will be notified at his Melbourne address of the intention to carry out such tests, and at what place they will be carried out, 24 hours previously, but should the Contractor or his representative fail to be present, the tests may be carried out in his absence at his risk.

11. **How Delivered.**—The stranded Wire shall be delivered on drums. The dimensions of the drums shall not exceed the figures given on Drawing No. "F." 678. An iron plate $15" \times 15" \times \frac{1}{4}"$ thick is required to reinforce each side of the drum, and to which it must be bolted. A 3-inch clearance hole is to be made in both the drum and the plate to take a 3-inch square spindle. The gross and nett weights also number of feet on drum, are to be stencilled on the drum in figures which should not be less than $1\frac{1}{4}"$ high.

12. **Delivery.**—The delivery of the galvanized steel stranded Wire shall be given as directed, at the Corporation's Overhead Construction Storehouse, Batman Avenue.

13. **Information to be Supplied by Tenderer.**—The Tenderer shall state, where provided for below, the quality of galvanizing he will guarantee on the wire after stranding when subjected to the tests as detailed in clause 9 (b) of this specification.

- (a). Number of 1 (one) minute dips guaranteed isNo.

SPECIFICATION FOR GALVANIZED PLAIN FENCING WIRE.—Item No. 472.

14. The wire used in the manufacture of the whole of the above shall be of high grade steel, uniformly galvanized, free from inequalities, flaws, splints and other defects, uniformly true to gauge.

15. **How Delivered.**—The galvanized steel fencing wire shall be delivered in coils. Each coil of wire shall be provided with a suitable label on which shall be clearly stamped the nett weight of wire in the coil.

16. **Delivery.**—The galvanized plain steel fencing wire shall be delivered where and as directed at either the General Storehouse, Spotswood, or the Metropolitan Receiving Depot, Spencer-street, Melbourne.

APPENDIX "B"—continued.
WIRE (IRON AND STEEL)—continued.

17. **Information to be supplied by Tenderer.**—The Tenderer shall furnish with his tender the following information:—

- (a) The British Imperial Standard Wire Gauge (I.S.W.G.) of each wire tendered.

- (b) The tensile breaking strength in pounds of each wire tendered.

SPECIFICATION FOR GALVANIZED BARBED WIRE.—Item No. 473.

18. **General Particulars.**—The wire used in the manufacture of the above Item shall be of high grade steel, uniformly galvanized, free from flaws, splits and other defects, and uniformly true to gauge. The Barbs shall be of equal length, well shaped, with sharp points, and shall be securely fixed at regular pitches of $3\frac{1}{2}$ inches.

A tolerance of $\frac{1}{4}$ in. under and $\frac{1}{4}$ in. over in $3\frac{1}{2}$ inches is permissible.

19. **How Delivered.**—The galvanized barbed wire shall be delivered in reels. Each reel of wire shall be provided with a suitable label on which shall be clearly stamped the nett weight of wire on the reel.

20. **Delivery.**—The galvanized Barbed Wire shall be delivered where and as directed at either the General Storehouse, Spotswood, or the Metropolitan Receiving Depot, Spencer-street, Melbourne.

21. **Specification—**

- (a) The British Imperial Standard Wire Gauge (I.S.W.G.) of each wire tendered is—
12 Gauge

- (b) The British Imperial Standard Wire Gauge (I.S.W.G.) of the wire used for the Barbs on each of the various Barbed Wires tendered is—
14 Gauge

- (c) The tensile breaking strength in pounds of each single wire used in the manufacture of each Barbed Wire tendered is—
Approx. 660 lbs.

- (d) The tensile breaking strength in pounds of each grade of Barbed Wire after the Barbs are fixed in position is—
Approx. 1140 lbs.

- (e) The number of Barb points in each set of Barbs on each of the Barbed Wire tendered is—
4

- (f) The number of wires around which each set of Barbs are secured on each of the Barbed Wires tendered is—
2

APPENDIX "C"

ELECTRIC CABLES AND WIRES.

7. SPECIFICATION FOR COPPER TAPES AND BINDERS.—*Items Nos. 1070 and 1071.*

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. 1070.*

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 $\frac{1}{2}$	inch 0.026	25	53

TABLE 2.

BINDERS.—*Item No. 1071.*

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 in.	Approximate Number to the pound (lb.)
Binder, Copper, No. 3	inches 20 $\frac{1}{4}$	inches 7	inch 0.112	inch $\frac{3}{16}$	inch 0.056	20	17

8. SPECIFICATION FOR STRANDED COPPER CABLE, DROPPER WIRE, AND CONTACT WIRE.—*Items Nos. 1051 to 1064.*

A. **Dropper Wire and Stranded Cables.**—Specifications of British Engineering Standards Association and Australian Commonwealth Engineering Standards Association apply, except in regard to the dimensions of 7/036 (Item 1051) and 19/072 (Item 1057), and except in such other details as are definitely stated to the contrary. The A.C.E.S.A. Specification No. C. 41, 1927, shall apply to the copper dropper wire and stranded copper cables in this Contract as detailed in Items 1051 to 1062 and 1064, and the B.E.S.A. Specification No. 125, 1930, shall apply to Item 1063.

B. **Inspecting, Testing and Weighing at Works.**—All Cables and Wires will be weighed and lengths checked as set out in clauses K and L and the Contact Wire shall also be inspected for defects as per clause D (2) by the Comptroller of Stores or his representative at the works of the Contractor.

The Stranded Copper Cable shall be tested before stranding in accordance with clause A by the Comptroller of Stores or his representative at the Works of the Contractor. In the case of 37/093 (Item 1060) and 37/116 (Item 1061), the outer layer of the Wires of the Stranded Cable shall have a right-hand lay.

For these purposes the Contractor shall give appropriate notice in writing of the readiness of the Cables or Wires for inspection, measurement, weighing or tests at the works.

C. **Testing after Delivery.**—The Wire under Item No. 1063 shall be tested in accordance with clause A and the Contact Wire in accordance with clauses E, G, H, and I, by the Comptroller of Stores or his representative on delivery of the wire. The Contractor will be notified at his Melbourne address of the intention to carry out such tests and at what place they will be carried out, 24 hours previously, but should he or his representative fail to be present the tests may be carried out at his risk in his absence.

APPENDIX "C"—continued.

ELECTRIC CABLES AND WIRES—continued.

D. Contact Wire General.—(1) The Hard Drawn Copper Contact Wire shall have a resistance of not more than 1570 ohm. per metregram at 20 deg. C. (2) The Wire shall be clean and smooth from the die, without roughness, seams, spills, scales, or scabs, and shall be delivered tightly wound on drums. (3) The section of the Wire shall be in accordance with Drawing F. 1460.

E. Contact Wire Joints.—The joints in the Wire shall be carefully made with silver before the wire is drawn.

F. Contact Wire Tensile Test.—Minimum Breaking Stress.—20 tons per square inch:

Elongation.—The elongation at breaking load shall not be less than 4 per cent. on a test length of 10 inches.

Elastic Limit.—The Elastic limit, as determined by stress and strain diagram, shall not be less than 60 per cent. of the breaking load.

G. Contact Wire Bending Test.—The wire shall be fixed in a vice between clamps bellmouthed to a radius equal to the thickness of the wire where gripped, in such a way that the side touched by the pantograph and the side opposite are held in the clamps—90 degrees will be considered as a single bend. The first bend will be from a vertical position to the right, the second back to the original position, the third from the vertical to the left, and the fourth back into the original position. The Wire shall be capable of standing as a minimum four bends without showing signs of fracture.

H. Contact Wire Torsion Test.—The Wire shall be capable of standing a single twist in a length of 10 inches without showing signs of fracture. One complete turn of 360 degrees from the axis shall be considered a single twist.

I. Samples for Test.—A sample from each drum or coil may be taken of Contact, Dropper or Stranded Wire for testing in accordance with clauses C and D.

In the event of a sample of any drum or coil not passing these tests, a second or third sample from the same drum or coil shall be tested, and the average of these tests shall determine the acceptance or rejection of the drum or coil.

J. Weights.—The method of weighing by the Comptroller of Stores or his representative at the works of the Contractor will be as follows:—The empty drum will be weighed and the result noted. The cable or wire will then be wound on the drum for the specified length, the full drum will then be weighed and the result noted. The weight of the cable or wire to be supplied under this Contract will then be ascertained by subtracting the weight of the empty drum from the weight of the drum when filled. Each drum when packed and totally enclosed shall be stencilled with the gross, tare and net weights in the presence of the Comptroller of Stores or his representative.

All such weights so ascertained by the Comptroller of Stores or his Representative will for all purposes be accepted by the parties to this Contract as correct and final and binding.

K. Measurements.—The Comptroller of Stores or his representative shall measure the length of Wire or Cable on each drum at the works of the Contractor and the Contractor shall have such lengths stencilled on the respective drums. These lengths will for all purposes be accepted by the parties to this Contract as final and binding.

L. How Delivered.—The Cable and Wire shall be delivered on drums (the number which may be specified in the order). The dimensions of the drums shall not exceed the figures given on Drawing No. 4051—F. 678. An iron plate 15 in. x 15 in. x $\frac{1}{4}$ in. thick is required to reinforce each side of the drum, to which it shall be bolted. A 3 in. clearance square hole shall be made in both the drum and the plate to take a 3 in. square spindle. The gross, tare and net weight, also number of feet on the drum, shall be stencilled on the drum in figures which should not be less than 1 $\frac{1}{2}$ in. high.

M. Delivery.—The Cable and Wire shall be provisionally delivered, deposited where and as directed at the Corporation's Overhead Maintenance Storehouse (Bulk Store), Batman-avenue, Melbourne, or at the Electric Light Storehouse at Spencer-street, as may be ordered, and delivery shall be deemed to be provisional until such time as the Comptroller of Stores shall certify that the whole of the service complies with this Specification and is in every respect to his satisfaction, and no such provisional acceptance shall prevent the operation of the "Rejection" clause of the annexed conditions of Contract.

9. SPECIFICATION FOR COPPER CABLE.—Item No. 1065.

Method of Stranding.—Concentric lay cables shall be formed as follows:—

All wires in the cable must be stranded in the same direction, i.e., the lay of all strands must be the same throughout each cable.

Electrical Resistance.—Pure electrolytic copper shall be used; resistance shall not exceed 10.565 ohms per mil. foot at 20 deg. C.

Actual capacity of the cable shall not vary from nominal capacity by more than plus or minus 2 per cent.

The length of the lay shall not exceed ten times the diameter of the cable.

Elongation shall not be less than 25 per cent., nor the tensile strength more than 38,500 lb. per sq. in.

APPENDIX "C"—continued.

ELECTRIC CABLES AND WIRES—continued.

10. SPECIFICATION FOR HARD DRAWN COPPER WIRE FOR TELEGRAPH AND TELEPHONE PURPOSES.—*Items Nos. 1066 and 1067.*

The Wire shall be Hard-drawn Copper Wire—weight, 150 and 200 lb. per mile respectively. The Wire shall be in accordance with the Australian Commonwealth Engineering Standards Association Specification No. C. 3, and the Wire shall be packed in coils of 75 to 140 lb.

11. SPECIFICATION FOR COPPER JOINTING SLEEVES.—*Items Nos. 1068 and 1069.*

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 joining clamps $\frac{3}{8}$ 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) 150 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 desire.

SPECIFICATIONS FOR RESISTANCE WIRES.

12. Nickel Copper Alloys.—*Items Nos. 1072 to 1077.*

- (1) Trade name of product.....
- (2) Specific Resistance.....microhms per Cm3.
- (3) Temperature Co-efficient.....

13. Nickel Chromium Alloys.—*Items Nos. 1078 to 1094.*

All Nickel Chromium Wire shall be suitable for continuous service at 1100 degrees C.

- (1) Trade name of product..... 1078-1087 1088-1094
"Brightray" "Néchrome IV."
- (2) Specific Resistance.....microhms per Cm3 103 114
- (3) Temperature Co-efficient 20° to 500° C. .000098 .000179 per degree Cent. between 20° and 100°

APPENDIX "D"

VARNISHES.

7. CARRIAGE VARNISH.—SPECIFICATION D. 1.—*Items Nos. 1358 to 1359A.*

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.

8. COPAL VARNISH.—SPECIFICATION D. 2.—*Item No. 1360.*

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

9. OAK VARNISH.—SPECIFICATION D. 3.—*Item No. 1361.*

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

10. LIQUID JAPAN DRIER.—SPECIFICATION D. 6.—*Item No. 1364 and 1364A.*

I.—SCOPE.

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

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:—

Color.—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 cc. 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 deg. F. in dust-free atmosphere.

Baking.—When flowed on metal and baked for two hours at 100 deg. C. (212 deg. 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."

11. PAPER VARNISH.—SPECIFICATION D. 7.—*Item No. 1365.*

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 resin mineral matter or other adulterants.

It shall conform to the following requirements:—

Color.—Water white.

Drying.—Shall set to touch in not more than 30 minutes, and shall dry hard and elastic when maintained at 70 deg. 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."

APPENDIX "D"—continued.

VARNISHES—continued.

12. SPIRIT VARNISH.—SPECIFICATION D. 8.—*Item No. 1366.*

I.—SCOPE.

This Specification covers varnishes known as Spirit Varnishes, both brown and white.

II.—MANUFACTURE.

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 color. It shall be free from suspended matter or sediment, and shall contain no resin 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 deg. F. in a dust-free atmosphere.

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."

13. KNOTTING VARNISH.—SPECIFICATION D. 9.—*Item No. 1367 and 1367A.*

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 resin 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 deg. 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."

14. FRENCH POLISH.—*Item No. 1368.*

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

15. FRENCH POLISH, WHITE.—*Item No. 1369.*

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

16. SPECIFICATION FOR BLACK AIRDRYING VARNISH.—*Item No. 1370.*

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 3 to 6 hours at a temperature of 20 deg. 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 1000 vols. 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 degrees C.

APPENDIX "D"—continued.

VARNISHES—continued.

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 $\frac{1}{2}$ -gallon of the varnish which he proposes to supply. The Corporation may test sample selected at random to ascertain to what extent the material supplied complies with this Specification or with the Tenderer's Specification.

17. VARNISH, INSULATING, QUICK AIR DRYING CLEAR.—Item No. 1371.

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 4 to 8 hours at a temperature of 20 deg. 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 1000 volts per mil.

Resistivity.—The varnish shall have a high resistance to the effects of water, oil, acids, and alkalies 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 deg. 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 degrees C.

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

Samples.—The Tenderer shall submit a sample not less than $\frac{1}{2}$ -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.

18. INSULATING STOVING BLACK.—(In 4 gal. tins).—Item No. 1372.

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 1500 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 deg. C. and shall exhibit no sign of softening at temperatures under 110 deg. C.

Drying Time.—A film of varnish on Japanese Paper of 1 mil. thickness shall set to the touch in from 6 to 15 hours when stoved at a temperature of 90 to 95 deg. 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 1000 volts per mil.

Resistivity.—The varnish supplied shall have a high resistance to the effects of water, oils, acid and alkalies, 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 degrees C. _____
Life when baked continuously, at 90 degrees C. _____

APPENDIX "D"—continued.

VARNISHES—continued.

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

Samples.—The Tenderer shall submit a sample of not less than $\frac{1}{2}$ -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 Tenderer's Specification.

19. VARNISH, CORE-PLATE, QUICK DRYING IN AIR.—Item No. 1374.
SPECIFICATION.

(A) **General Particulars.**—The Varnish will be used for treatment of core-plates prior to assembly of same in Transformers, the cores of which may be oil-immersed.

(B) **Quality.**—The quality of the Varnish shall be of the best, and suitable for use under the conditions of clause A.

(C) **Drying Time and Flexibility.**—A film of Varnish on Japanese paper 1 mil in thickness, shall set to the touch within 30 minutes of application at a temp. of 20°C. When applied to the core-plate the film, when dry, shall be flexible enough to permit of the bending common to the general handling received during treatment and assembly of the Plates. The film shall not crack or flake during this bending.

(D) **The Properties.**—The Varnish shall be suitable for application with a Brush and shall dry with a good film and surface.

(E) **Tests.**—Tests shall be made on samples from each delivery to ascertain whether the Varnish complies with this Specification.

INFORMATION TO BE SUPPLIED BY THE TENDERER.

Specific gravity.....

Recommended thinning medium

Percentage of thinning medium

Drying time in Air at 20°C.....

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

20. **Samples.**—The Tenderer shall submit a sample of not less than $\frac{1}{2}$ -gallon of the varnish which he proposes to supply.

21. 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 "E"

COPPER PRODUCTS.

SPECIFICATION FOR COPPER TUBING—*Items Nos. 1459–1486.*

7. **Particulars.**—The Copper Tubing as set opposite Items 1459 to 1486 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. 1487.*

8. **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 color.

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 otherwise legibly and durably marked 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 1488–1493; and COPPER SHEET—Items 1502 and 1503.*

9. **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.

Limits of Tolerance.—No Copper Rod shall be more than 0.005" under nor more than 0.010" over the ordered diameter.

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

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. 1494–1501.*

10. **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 Rod 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.

APPENDIX "E"—continued.

COPPER PRODUCTS—continued.

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—(Items Nos. 1505 and 1506).

11. 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.

The copper strip shall withstand bending through an angle of 180 degrees over a bar $\frac{3}{8}$ " diameter without showing signs of cracks or flaws of any description.

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.

HARD DRAWN COPPER STRIP (HALF MOON SECTION).—Item No. 1507.

12. Particulars.—The copper strip shall be made from best quality commercial copper to Drawing No. F. 1131, and to be to the satisfaction of the Comptroller of Stores. It shall be hard drawn, clean and smooth from the die, without roughness, seams or scales.

Tests.—The copper strip shall withstand bending through an angle of 180 degrees over a bar $\frac{5}{8}$ in. diameter, without showing any signs of cracks or flaws of any description.

The successful Tenderer will be notified at his Melbourne address of the intention to carry out tests as laid down in this Specification 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.

13. SEAMLESS COPPER TUBE.—Item No. 1509.

General.—The tubes shall be of seamless copper, and in all respects shall be to the A.C.E.S.A. No. E12-1925T Specification.

Dimensions.—The tubes shall have an internal diameter of 1.143 inch and a thickness of wall of No. 13 S.W.G. Tubes shall be supplied in 15 ft. lengths.

Standard Specifications.—The S.A.A. Specification No. E12-1925T shall apply to all tubing supplied. (Note.—Clause 9, of S.A.A. No. E12-1925T, "Hydraulic Test," will not be applied).

Tests.—Any tests to ascertain whether the delivered tubing agrees with this Specification may be applied by the Corporation on delivery.

Delivery.—The delivery shall be made at the Corporation's Electrical Depot Storehouse, Spencer-street, Melbourne.

COPPER STRIP FOR PANTOGRAPHS.—Items Nos. 1508 and 1508A.

14. Particulars.—The strip shall be of hard drawn or hard rolled electrolytic copper, of straight, smooth finished and free from any defects such as flaws, cracks, etc. It shall be cut true to the length and angle, and bent as shown in Drawing No. F. 690D, and shall be free from burrs.

Hardness.—The copper strip shall have a hardness of between 90 and 100 as measured by the Brinell Hardness Test.

Tests.—The Corporation will carry out any tests necessary to ascertain whether the copper strips delivered comply with this Specification. Should more than 10 per cent. of any lot or package fail to comply with the Specification, the whole of the copper strip in such lot or package will be liable to rejection.

Weights.—All weights shall be ascertained by weighing the copper strip on the weighing machines of the Corporation, at the Jolimont Workshops, and all such weights so ascertained by the Comptroller of Stores shall for all purposes be accepted by the parties as correct and final and binding.

APPENDIX "F"

METALS—ALUMINIUM, ANTIMONY, BRASS, LEAD AND ZINC.

SPECIFICATION FOR ALUMINIUM INGOTS (*Item No. 1513*), ANTIMONY INGOTS (*Item No. 1514*).

7. **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, stamped or otherwise durably and legibly marked 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 from 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 his Specification it shall be liable to rejection.

SPECIFICATION FOR BRASS ROD—*Items Nos. 1515-1568*.

8. **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 following limits of tolerance:—

(a) Round or Square Rods (*Items 1539 to 1568*).

Diameter or Width Across Flats	Rolled Rod		Extruded or Drawn Rod	
	Plus	Minus	Plus	Minus
Under $\frac{1}{4}$ inch ...	—	—	0.002"	0.002"
$\frac{1}{4}$ " to $\frac{7}{16}$ " ...	Nil	0.010"	0.002"	0.002"
$\frac{7}{16}$ " to $\frac{1}{2}$ " ...	"	0.010"	0.003"	0.003"
$\frac{1}{2}$ " to $1\frac{1}{8}$ " ...	"	0.015"	0.004"	0.004"
$1\frac{1}{8}$ " to $1\frac{3}{4}$ " ...	"	0.020"	0.004"	0.004"
$1\frac{3}{4}$ " to $1\frac{1}{2}$ " ...	"	0.020"	0.005"	0.005"
$1\frac{1}{2}$ " to 3" ...	"	0.025"	0.006"	0.006"

(b) **Hexagon Rod** (*Items 1515 to 1538*), shall be within the limits of tolerance shown opposite the various items in the schedule.

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 1569 to 1603*.

9. **Particulars.**—The Brass Sheet shall be in accordance with British Standard Specification No. 266-1928, for 65/35 Brass Sheet, 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.

APPENDIX "F"—continued.

METALS—ALUMINIUM, ANTIMONY, BRASS, LEAD AND ZINC—continued.

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 BRASS TUBING—*Items Nos. 1604-1617.*

10. **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.

The working margins shall be as follows:—

On Length—

Tubes 10 feet in length and under, plus or minus 1/16 in.

Tubes over 10 feet in length, plus or minus 1/8 in.

On External Diameter—

Tubes 2 in. diameter and under, plus or minus .008 in.

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 in. 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. 1618 and 1619, and LEAD SHEET—Item No. 1620.*11. **Particulars.**—(a) **Pig Lead (remelted)**—*Item 1618.*

The Pig Lead as set opposite *Item No. 1618* 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 1619.*

The Pig Lead as set opposite *Item 1619*, 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 1620.*

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 from such sample.

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

APPENDIX "F"—continued.

METALS—ALUMINIUM, ANTIMONY, BRASS, LEAD AND ZINC—continued.

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.

12. SPECIFICATION FOR ANTIMONIAL LEAD STRIP.—Items Nos. 1621–1623.

Particulars.—The antimonial lead strip shall be extruded, and shall be clean and smooth from the die, without roughness, seams or scales.

Chemical Analysis.—The material used in the manufacture of the strip shall consist of 98·9 to 99 per cent. commercially pure lead, and 1 to 1·1 per cent. antimony.

Tests.—A sample of the strip may be analysed by the Corporation after delivery. Failure to comply with the Specification will render the strip liable to rejection.

How Delivered.—The strip shall be delivered in rolls of about 56 lb. weight.

SPECIFICATION FOR ELECTROLYTIC ZINC INGOTS—*Item No. 1624, and ZINC SHEET—Items Nos. 1625 and 1626.*

13. **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 otherwise durably and legibly marked 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.

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.

14. **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.

APPENDIX "G"

SERGE AND TWILL, ETC.

7. SPECIFICATION FOR TASMANIAN BLUEY CLOTH.—*Item No. 1953.*

The material required under this specification is the woollen cloth known as "Tasmanian Bluey," and is to be used for the manufacture of overalls supplied to employees who handle battery (Sulphuric) acid.

The cloth shall weigh not less than 27 oz. per lineal yard and shall be supplied in rolls not less than 56 inches wide and containing not less than 50 yards.

Not less than six (6) test pieces shall be cut in each direction from the cloth, and these test pieces when tested in a Goodbrand cloth testing machine shall have an average tensile strength of not less than 36 lb. per inch width, the test pieces being two inches wide and exposed nine inches between the grips.

Samples of the cloth shall be completely immersed at room temperature for 24 hours in sulphuric acid of 1.3 sp. gr., then washed in running water until free from acid, and after wringing out surplus water shall be hung up for 24 hours to dry.

The cloth so treated shall not be visibly affected by the acid, and test pieces cut from it, when subjected to the tensile test described above, shall give results not less than 10% lower than those obtained on the untreated cloth.

SPECIFICATION FOR SERGE AND TWILL.—*Items Nos. 1954 to 1957.*

8. **Quality.**—Only new, good, sound wool shall be used.

9. **Finish.**—All materials shall be of good appearance, durable and free from faults, and shall correspond to the contract sample in thickness, color, weight, nature and closeness of the texture of the fabric, raising and shearing on both sides. All material shall be delivered thoroughly dried and clean, scoured free from grease, soap, or other admixture which may be used to give fictitious weight or substance to the goods, and thoroughly shrunk. It shall be free from grass seeds, burrs, and all other imperfections.

10. **Dyeing and Color.**—All material shall be dyed dark blue with indigo dye. The color shall correspond with that of the contract sample, and shall be thoroughly fast and not liable to rub off freely. A portion of the material may be tested by lengthened exposure to the weather or otherwise to determine whether the color is fast.

11. The material shall be all Wool, Dark Blue, 58 inches wide, exclusive of selvages.

12. **Selvages and Identification Threads.**—Every piece of material shall have two selvages of not less than three-eighths of an inch in width. There shall be woven into the selvages and also in the full width of the heading and end of each piece of material one thread of pale blue.

13. **Threads per Inch.**—The number of warp and weft threads per square inch shall not be less than that set out under clause 22 of this specification.

14. **Width and Folding.**—All material shall be 58 in. wide without selvages, and shall be correctly folded down the middle with the selvages straight and even. For the purpose of this specification the width shall be measured exclusive of selvages; a variation of one quarter of an inch either way will be accepted.

15. **Weight.**—The weight per yard shall not be less than specified in the schedule. The weight shall be determined by dividing the total weight of each or any piece by the full length of the piece.

16. **Marking.**—Each and every piece of material shall bear the mill number stencilled or marked into the end, and in addition shall have a ticket attached showing the class of cloth, weight, length and piece number.

17. **Inspection during Manufacture.**—The Comptroller of Stores or the Receiving Officer, shall have free access to the works of the manufacturer at all reasonable times. He shall be at liberty to inspect the manufacture at any stage, and to reject any material that does not conform to the terms of this Specification.

18. **Tests.**—The material shall be subjected to such tests as may be deemed necessary to ascertain whether it complies with this Specification. For the purpose of such tests the Comptroller of Stores shall be entitled to cut off and destroy a portion not exceeding eighteen inches in length from the end of as many pieces as may be considered necessary, and shall be further entitled to wash and dry any piece of material supplied under this Specification. In the event of rejection as the results of such tests, the manufacturer shall not be entitled to any payment or compensation for material destroyed or damaged in making the tests. Tensile tests shall be carried out as described in clause 19.

19. **Tensile Strength and Stretch.**—Four specimens shall be cut from each portion of material reserved for test as described in clause 18. Two specimens shall be cut in the direction of the warp, and two in the direction of the weft, in such a manner that no two specimens cut in the same direction shall contain the same longitudinal threads.

The test specimens shall be $6\frac{1}{2}$ inches wide and the threads shall be frayed out from each side so as to reduce the test width to 6 inches. They shall then be placed evenly in the jaws of a suitable testing machine so that the unstretched length of the fabric between the jaws is 7 inches, and shall be broken without delay. The load shall be applied at the rate of 150 lbs. per inch width per minute. If a specimen breaks in the jaws at a load much lower than that required, a duplicate test shall be made on another test piece, including the same threads.

APPENDIX "G"—continued.

SERGE AND TWILL, ETC.—continued.

20. **Flaws and Deductions.**—All damage or flaws must be clearly marked on each piece of material, and for each and every damage or flaw a deduction of not less than one quarter yard shall be made by the Comptroller of Stores, and the ticket attached in accordance with clause 16 shall be clearly marked with the total amount deducted and the yardage to be paid for. The number of faults in any one piece of material shall not exceed one in every ten yards.

21. **Rejection.**—Should any portion of a delivery fail to satisfy the requirements of this Specification, the whole or portion of the delivery may be rejected. Each and every piece of material so rejected shall have the heading removed, and no piece of material from which the heading has been removed will be accepted.

22. The tenderer shall insert hereunder the following additional particulars of the Cloth tendered :—

	Item No. 1953	Item No. 1954	Item No. 1955	Item No. 1956	Item No. 1957
Strength, lb. per inch width, warp ... lbs.....	225	.....	.....	.....	390
Strength, lb. per inch width, weft ... lbs.....	205	.....	.....	.....	370
Stretch, inches, warp inches.....	2	.....	.....	.....	3½
Stretch, inches, weft inches.....	2	.....	.....	.....	2½
Warp threads, per square inch ... No.....	34	.....	.....	.....	76
Weft, threads, per square inch ... No.....	34	.....	.....	.....	72

23. **Samples.**—Samples are exhibited at the Office of the Comptroller of Stores, which will indicate generally the quality of Cloth required. The tenderer shall submit a sample of at least one yard of each of the materials which he tenders to supply, and in the event of the tender being accepted, such sample shall become the Contract sample, and all deliveries shall conform thereto in every respect.

The samples submitted will be tested to confirm the information inserted above, and if the tender be accepted, all deliveries shall be in accordance therewith..

APPENDIX "H"

ACCUMULATOR CELLS AND SPARE PARTS.

7. Manufacturer's specification and drawings or illustrations of the Accumulator Cells and Spare Parts shall accompany the tender.

SPECIFICATION FOR ACCUMULATOR CELLS AND SPARE PARTS.

8. **Materials and Workmanship.**—All the materials and workmanship required in this contract shall be of the very best quality of their respective kinds.

9. **Particulars.**—The Accumulator Cells and Spare Parts are for use in connection with J. Stone & Co., Train Lighting Sets for electric lighting of railway cars and vans.

The Accumulator Cells and Spare Parts shall be interchangeable with and suitable for use with Standard Tonum, or Demi-plante Cells.

10. **Capacity.**—The capacity of all Accumulator Cells, Positive Sections and Positive Plates shall be such that when discharged at the rate of three amperes per positive plate for eight (8) hours the potential difference at the terminals of the cells shall not be less than 1·8 volts, the pressure being taken whilst the current is still flowing. They shall respond to small charging rates and shall not be injured by overcharging usually met with in Train Lighting.

11. **Accumulator Cells.**—The Accumulator Cells referred to in Items 1960 and 1961 of this schedule shall comprise the following :—

- (a) Cell Box and Lid.
- (b) Positive and Negative Plate Sections.
- (c) Bottom Block.
- (d) Plate Separators.
- (e) Side and Bottom Sheets.
- (f) Cell Connector.
- (g) Float Indicator.
- (h) Cell Testing Tube.

They shall be supplied without electrolyte and shall have approximately the following overall dimensions :—

Item 1960	...	19" high	...	7 $\frac{3}{8}$ " wide	...	9 $\frac{1}{2}$ " long.
Item 1961	...	19" high	...	7 $\frac{1}{8}$ " wide	...	7 $\frac{1}{8}$ " long.

12. **Cell Box.**—The cell box shall be constructed from well-seasoned Tasmanian Oak or other approved timber. The box shall be specially treated in paraffin wax and insulating compound, in order to resist action by the electrolyte. The box shall be marked on the outside at one end with a heavy line showing the normal acid level, and the normal specific gravity of the electrolyte shall also be marked in $\frac{1}{8}$ " figures. The top edges of the cell box shall be chamfered off and the top immersed in boiling compound to a depth of at least 2 inches, in order to preserve it and to enable the lead lining to be sealed off at the top to prevent liquid getting between the box and the lining.

The cell box shall be lined with sheet lead of high-grade quality and approved thickness and provided with ample lap at the joints, which shall be burnt together. The lead lining shall be specially treated externally with paraffin wax of a high melting point, and when fitted in the box the bottom of the lining shall be securely bedded in compound at the bottom of the box. At the top the lead lining shall be bevelled over and neatly finished, then heated with a suitable flame and sealed to the compound in the box.

The cell lid shall be of the block type without bolts or securing metal clips of any kind, so as to prevent short circuits between adjacent cells. The lid shall be constructed from well-seasoned Tasmanian Oak, or other approved timber not less than 1 $\frac{1}{2}$ " in depth and fitting the lead lining neatly; and shall be provided with anti-splashing channels. The lid shall be treated with boiling paraffin wax and have a second dipping at a lower temperature, so as to have a heavy coating of wax. The cell lid shall be insulated from the positive and negative lugs by means of approved split porcelain gaskets. The lid shall be provided with suitable porcelain bushed holes for venting the cell, for testing the cell and for taking a float electrolyte level indicator.

13. **Plate Sections.**—The Plates shall be cast from chemically pure lead each in one piece, and shall be provided with suitable strengthening ribs. To form sections they shall be burnt to the busbars, and shall be fully formed and ready for immediate use when delivered.

The positive plates shall be of the demi-plante type and so constructed that there is sufficient lead at both top corners to enable new lugs to be burnt on when required. The grid shall be so sectioned as to enable strengthening ribs of ample section to be provided. The positive plates shall rest on a bottom block quite separate from the negative plates.

The negative plates shall be of the pasted type of modern design and high conductivity, and the grid so constructed that the active material is dovetailed inwards, so as to minimize the possibilities of the active material falling away from the grid. The grid shall be divided into small areas, so that any active material which may break away from the grid will not be large enough to reach the positive plates. The grid shall be provided with strengthening ribs, and sufficient lead shall be provided at the top corners to enable new lugs to be burnt on when required.

APPENDIX "H"—continued.

ACCUMULATOR CELLS AND SPARE PARTS—continued.

The connecting lugs shall be of rectangular section, shall be burnt to the busbars, and each lug shall be reinforced in an approved manner at its joint with the busbars. The busbars shall be of heavy section. The positive busbars shall be provided with ebonite wedges to securely locate the section.

14. **Bottom Blocks.**—The bottom blocks shall consist of thick glass strips set on edge and supported by approved supports. They shall be constructed to enable the positive and negative plates to rest on separate strips. The bottom block shall be a neat fit in the cell box, and so arranged that the outside negative plates do not overhang the edges. The underside corners of the block shall be rounded so as to prevent the weight of the plate sections from resting on the corners of the lead lining. Ample clearance shall be provided between the bottom of the cell and plates.

15. **Separators.**—The separators shall be interchangeable and of uniform dimensions, S.T. Tonum $\frac{1}{4}$ ", and nibs shall be cast on the plates in suitable positions to keep the separators in position. The D.P. Tonum $\frac{3}{8}$ " spacing between the plates shall be not less than $\frac{1}{8}$ ".

16. **Side and Bottom Sheets.**—Ebonite side sheets shall prevent the plates from coming into contact with the lead lining. They shall extend from the top of the plates to the bottom of the box and from end to end of the box. The bottom ebonite sheet shall cover the whole of the area of the bottom of the cell box.

17. The Ebonite Separators and the Side and Bottom Sheets shall comply with the British Standard Specification for Train Lighting Accumulators.

18. **Cell Connectors.**—The Cell Connectors shall consist of flexible copper of approved length, with lead terminals and two lead-covered bolts of sufficient length and sectional area for the efficient connection of adjacent cells.

19. **Float Indicator.**—The float indicator shall work through a hole in the cell lid and shall be suitable for indicating the height of the electrolyte. It shall have a red band showing the minimum height painted on the stem.

20. **Cell-testing Tube.**—The cell-testing tube shall be suitable for drawing electrolyte for gravity testing. It shall be suitably bent and fitted in a hole in the cell lid. The tube shall be of sufficient length to reach the electrolyte when at its minimum height in the cell.

21. **Spare Parts.**—The Cell Boxes referred to in Items 1962, 1963, 1964 and 1965 of this schedule shall comply with clause 12 hereof.

The Positive Sections referred to in Items 1974, 1974a and 1974c of this Schedule shall be suitable for use with Stones Standard 21 Plate, 15 plate, and 11 plate negative sections of Tonum Cells respectively.

The Positive Sections referred to in Items 1974 to 1974c of this Schedule shall comply with clause 10 hereof and with that part of clause 13 hereof relating to Positive Sections.

The Bottom Blocks referred to in Items 1970 and 1971 of this Schedule shall comply with clause 14 hereof.

The Cell Lids referred to in Items 1966 to 1969 of this Schedule shall be supplied without porcelain gaskets and shall comply with that part of clause 12 hereof relating to Cell Lids.

The Positive Plates referred to in Item 1972 of this schedule shall comply with clause 10 hereof and with that part of clause 13 hereof relating to Positive Plates.

22. **Tests.**—Any tests necessary to determine if the Accumulator Cells and Spare Parts are in accordance with the specification will be carried out after provisional delivery.

The Accumulator Cells and Spare Parts shall be in accordance with the following information :—

(a) Nett weight of Accumulator Cell with electrolyte—

Item 1960—110 lbs.

Item 1961—78 lbs.

(b) Dimensions of Accumulator Cell :—

Item 1960—19" high x $7\frac{3}{8}$ " wide x $9\frac{11}{16}$ " long

Item 1961—19" high x $7\frac{3}{8}$ " wide x $7\frac{1}{4}$ " long

(c) Dimensions and weight of positive plate— $8\frac{1}{8}$ x $5\frac{1}{2}$ x $\frac{3}{16}$ 5 lbs. 13 oz.

(d) Manufacturer's Specification No.—See original Contract

(e) Manufacturer's Drawing No.—See original Contract.

23. **Specification for Ebonite Accumulator Accessories.**—Items Nos. 1975 to 1982a.

The Ebonite Accumulator Accessories shall be in accordance with British Standard Specification, No. 454-1932, for train lighting Accumulators.

This Specification shall apply to the Ebonite portion of the Accumulator Floats—Item No. 1978.

APPENDIX "I"

KEROSENE, MOTOR SPIRIT AND FUEL OILS.

7. KEROSENE—ILLUMINATING AND POWER FUEL.—SPECIFICATION N.1.—*Items 2349 and 2353.*

Scope.—This Specification covers the grade of kerosene required for ordinary Illuminating Purposes and also as a Fuel for Kerosene Engines.

Manufacture.—The kerosene shall be a pure petroleum product.

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

Flash Point (Closed Test).—Shall not be less than 105 deg. F.

Color.—Shall be water white.

Fractional Distillations.—The residue at 300 deg. C. shall not be more than 6 per cent. by vol.

Cloud Test.—The kerosene shall not show a cloud at 5 deg. F.

Flock Test.—The kerosene shall show no sediment when heated at 250 deg. F. for six hours.

Specific Gravity.—The Tenderer shall submit with his tender a statement showing the Specific Gravity (at 15.5 deg. C./15.5 deg. C.) of the oil offered, and the sample and future deliveries (in the event of the tender being accepted) shall agree therewith within the limits of ± 0.5 per cent.

Burning Test.—The kerosene shall burn freely and steadily in a lamp for a period of eighteen hours without marked diminution of intensity, and without smoking or forming "ears" or "toadstools" on the wick. The chimney must be only slightly clouded or stained at the end of the test.

Special Test.—The kerosene submitted under this Specification will be subjected to tests to determine its Sulphur Content, and consideration will be given to the results obtained in deciding the oil to be accepted.

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than one (1) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

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

8. KEROSENE 300 deg. HIGH TEST.—SPECIFICATION N.3.—*Item 2350.*

Scope.—This Specification covers the grade of kerosene required for Illuminating Purposes, where a high-flash illuminant is required.

Manufacture.—The kerosene shall be a pure petroleum product.

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

Flash Point (Closed Test).—Shall not be less than 250 deg. F.

Color.—Shall be water white.

Cloud Test.—The kerosene shall show no cloud at 32 deg. F.

Flock Test.—The kerosene shall show no sediment when heated at 450 deg. F. for fifteen minutes.

Specific Gravity.—The Tenderer shall submit with his tender a statement showing the Specific Gravity (at 15.5 deg. C./15.5 deg. C.) of the oil offered, and the sample and future deliveries (in the event of the tender being accepted) must agree therewith within the limits of ± 0.5 per cent.

Burning Test.—The kerosene shall burn continuously, without readjustment of the wick, till all the oil is consumed. The flame shall remain symmetrical and free from smoke throughout, and there shall be no appreciable hard incrustation on the wick, nor any marked diminution of intensity.

Special Test.—The kerosene submitted under this Specification will be subjected to tests to determine the Sulphur Content, and consideration will be given to the results obtained in deciding the oil to be accepted.

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery drawn from at least five (5) containers, and in no case from less than one (1) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

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, etc."

9. MOTOR SPIRIT.—SPECIFICATION N.4.—*Items 2354 to 2363.*

Scope.—This Specification covers the grade of motor spirit required for use in Internal Combustion Engines.

Manufacture.—The motor spirit shall be a pure petroleum or other approved product.

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

Color.—Shall be water white.

APPENDIX "I"—continued.

KEROSENE, MOTOR SPIRIT AND FUEL OILS—continued.

Detonation.—The Motor Spirit shall be tested to determine its tendency to detonate, and its non-detonating value will be considered the most important factor in deciding its suitability.

Fractional Distillation—	Not less than per cent.
Up to 75 deg. Cent. ...	5.0
Up to 115 deg. Cent. ...	50.0
Not higher than 200 deg. Cent. ...	End point
Residue.—Shall not show acid reaction.	

Doctor Test.—The Doctor test shall be negative.

Corrosion.—A copper strip shall not appear discolored when heated in the spirit to 150 deg. F.

Gumming Residue.—When evaporated to dryness in a porcelain dish there shall be no weighable amount of gummy matter.

Acid Heat Test.—The motor spirit will be tested for rise of temperature when mixed with sulphuric acid.

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery drawn from at least five (5) containers, and in no case from less than one (1) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

Methods 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, etc."

10. FUEL OIL.—SPECIFICATION O.I.—Items 2366 to 2369.

Scope.—This Specification covers the grade of petroleum product used for Fuel Purposes and also coal tar oil and mixtures of coal tar oil and coal tar.

Properties and Tests.—The oil shall be free from grit, acid, fibrous or other matter, and in other respects shall comply with the conditions mentioned hereunder:—

Flash Point (Closed Test).—Shall not be less than 150 deg. F.

Calorific Value, Gross B.T.U. per lb.

Petroleum Oil.—Not less than 18,000.

Coal Tar Oil or Mixtures.—Not less than 16,000.

Water and Sediment.—Not greater than 1 per cent.

Sulphur.—When tested in the bomb calorimeter the oil must be reasonably low in sulphur.

The oil must flow freely from the containers or receptacles at 60 deg. F.

Other things being satisfactory, the choice of oil will be largely determined by low sulphur content and high calorific value.

Excess of water and sediment over the 1.0 per cent. specified may either be subtracted from the gross volume of oil to be paid for, or may be regarded as a contributory reason for rejection.

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least ten (10) per cent. of the containers.

If Fuel Oil be delivered to the Corporation in bulk each delivery will be sampled on the following basis:—A composite sample made up of samples drawn from every 1,000 gallons or part thereof of each delivery shall be accepted as accurately representing the quality of the delivery.

A second sample shall be taken from the bottom of the container or containers with a "thief" having a valve in the lower end. The thief, with valve open, shall be lowered gradually into the container, and the valve closed at the instant of touching the bottom. The sample thus obtained shall be tested for water and sediment.

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

11. OIL FOR THE MANUFACTURE OF PINTSCH GAS.—SPECIFICATION O.I.—Item 2370.

Scope.—This Specification covers the grade of petroleum product used for the manufacture of Pintsch Gas.

Properties and Tests.—This oil shall be free from grit, acid, water, and fibrous or other deleterious matter and in other respects shall comply with the conditions mentioned hereunder:—

	Maximum	Minimum
Specific Gravity at 60 deg. Fahr. ...	895	910
Flash, open, deg. Fahr. ...	174.0	220.0
Flash, Fire, deg. Fahr. ...	230.0	250.0
Boiling Point, deg. Fahr. ...	400.0	450.0
Sulphur, per cent. ...	—	1.200
Viscosity.—Dynes per Sq. Cm. at—		
70 deg. Fahr. ...	580	725
100 deg. Fahr. ...	210	300
140 deg. Fahr. ...	103	120
Carbon ...	As low as possible	
Distillation ...	60 per cent. shall distil over below 720 deg. Fahr.	

APPENDIX "J"

MINERAL LUBRICATING OILS.

7. As regards Items Nos. 2760 to 2763, delivery may be made in—A Steel Drums, with side bungs (approx. 45 gals.) or—B Wooden Barrels (45 gals.), and it shall be indicated in the Schedule the type of containers to be used.

8. LOCOMOTIVE CYLINDER OIL.—Specification L1.—Items 2760 and 2761.

Scope.—This Specification covers the grade of petroleum oil required for the lubrication of the Cylinders and Valves of Superheater and Saturated Locomotive Steam-engines, using either mechanical lubricators or those operating in the hydrostatic principle.

Manufacture.—The oil shall be a refined petroleum product, with the addition of acidless animal oil.

Properties and Tests.—The oil shall be free from mineral acids and alkali, and asphaltic, tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder :—

Constants.	Superheated Steam.		Saturated Steam.	
	Maximum.	Minimum.	Maximum.	Minimum.
Viscosity at 212° F., dynes per sq. cm. ...	0.40	0.25	0.32	0.24
Fire Point, degrees Fahr. ...	...	580	...	580
Pour Point, degrees Fahr. ...	50	...	50	...
Saponifiable Matter, per cent. ...	6	...	8	...
Carbon Residue ...	3	...	3	...

Oils submitted under this Specification will be subjected to tests to determine the following properties :—

Specific Gravity, 15.5° C./15.0° C.
Viscosity at 70° F., dynes per sq. cm.
Viscosity at 100° F., dynes per sq. cm.
Viscosity at 140° F., dynes per sq. cm.
Viscosity at 212° F., dynes per sq. cm.
Fire Point.
Four Point.

Volatility* at 400° F.
Volatility* at 500° F.
Volatility* at 600° F.
Precipitation Number or Gasolene Test
after heating one hour at 600° F.
Carbon Residue.

and consideration will be given to the results obtained in deciding the oil to be accepted. It is desirable that the volatility loss and precipitation number shall be as low as possible.

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 reasonably agree therewith.

Information to be Supplied by Tenderer.—The tenderer shall supply the following information regarding the oils he tenders to supply :—

Specific Gravity 15.5° C./15.0° C.	...	...	.....
Viscosity at 70° F., dynes per square cm.	...	...	.....
Viscosity at 100° F., dynes per square cm.	...	...	.....
Viscosity at 140° F., dynes per square cm.	...	...	.....
Viscosity at 212° F., dynes per square cm.	...	...	.....
Fire Point, degrees Fahr.	...	...	.....
Pour Point, degrees Fahr.	...	...	.....
Saponifiable Matter, per cent.	...	...	.....
Carbon residue	...	...	.....

Sampling and Testing.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of each delivery.

Testing.—With the exception of the Volatility Tests, the sample shall be tested according to methods set out in "Circular of the Australian Railways: Testing of Lubricating, Illuminating, and Fuel Oils, etc."

* The volatility loss, after heating the oil for one hour at the temperature given, will be determined in the V.R. Laboratory Apparatus, designed generally on the lines of Conradson's Apparatus. See *I. Ind. Eng. Chem.* 4 (1912); also Hamor and Pagett, *The Examination of Petroleum* (1922).

9. LOCOMOTIVE BEARING OIL.—Specification L2.—Items 2762 and 2763.

Scope.—This Specification covers the grade of Petroleum Oil required for use on the Bearings and Motions of Steam Locomotives. Two grades are specified—the one for summer, the other for winter use.

Manufacture.—The oil shall be a refined petroleum product. The Tenderer shall state whether a straight Mineral or Compounded Oil is offered; if the latter, he shall indicate the nature and percentage of the compound used in the manufacture of the Bearing Oil.

APPENDIX "J"—continued.
MINERAL LUBRICATING OILS—continued.

Properties and Tests.—The oil shall be free from mineral acid or alkali, and from asphaltic, or tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder :—

	Summer.		Winter.	
	Maximum.	Minimum.	Maximum.	Minimum.
Viscosity at 140° F., dynes per sq. cm. ...	1·0	0·80	0·80	0·65
Fire Point, degrees Fahr. ...	...	400	...	375
Pour Point, degrees Fahr. ...	40	...	25	...
Syphon Test, cubic centimetres at 140° F. ...	...	3·0	...	4·0
Saponifiable Matter, per cent. ...	20	...	20	...

Oils submitted under this Specification will be subjected to tests to determine the following properties :—

Specific Gravity, 15·5° C./15·0° C.	Fire Point.
Viscosity at 70° F., dynes per sq. cm.	Pour Point.
Viscosity at 100° F., dynes per sq. cm.	Syphon Test.
Viscosity at 140° F., dynes per sq. cm.	Saponifiable Matter.
Viscosity at 212° F., dynes per sq. cm.	

and consideration will be given to the results obtained in deciding the oil 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 reasonably agree therewith.

Information to be Supplied by Tenderer.—The tenderer shall supply the following information regarding the oils he tenders to supply :—

Specific Gravity 15·5° C./15·0° C.	...	...
Viscosity at 70° F., dynes per square cm.	...	...
Viscosity at 100° F., dynes per square cm.	...	...
Viscosity at 140° F., dynes per square cm.	...	...
Viscosity at 212° F., dynes per square cm.	...	...
Fire Point, degrees Fahr.	...	...
Pour Point, degrees Fahr.	...	...
Syphon Test	...	...
Saponifiable Matter, per cent.	...	...

Sampling.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

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

10. CAR AND WAGON OIL (BLACK OIL).—Specification L3—Item 2764.

Scope.—This Specification covers the grade of Petroleum Oil required for the lubrication of the Axle Journals of Railway Carriages and Wagons.

Manufacture.—The oil shall be a refined petroleum product, free from admixture with any compounding material whatsoever.

Properties and Tests.—The oil shall be free from mineral acid and alkali, and asphaltic, tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder :—

	Maximum.	Minimum.
Viscosity at 70° F. ...	10·5	8·3
Viscosity at 140° F., dynes per sq. cm. ...	0·52	0·48
Fire Point, degrees Fahr. ...	...	400
Pour Point, degrees Fahr. ...	25	...
Syphon Test, cubic centimetres at 140° F. ...	...	5·0

Oils submitted under this Specification will be subjected to tests to determine the following properties :—

Specific Gravity, 15·5° C./15·0° C.	Fire Point.
Viscosity at 70° F., dynes per sq. cm.	Pour Point.
Viscosity at 100° F., dynes per sq. cm.	Syphon Test.
Viscosity at 140° F., dynes per sq. cm.	Saponifiable Matter.

and consideration will be given to the results obtained in deciding the oil to be accepted

APPENDIX "J"—continued.

MINERAL LUBRICATING OILS—continued.

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 reasonably agree therewith.

Information to be Supplied by Tenderer.—The tenderer shall supply the following information regarding the oils he tenders to supply :—

Specific Gravity 15.5° C./15.0° C.	...	...	.....
Viscosity at 70° F., dynes per square cm.	...	...	.....
Viscosity at 100° F., dynes per square cm.	...	...	.....
Viscosity at 140° F., dynes per square cm.	...	...	.....
Fire Point, degrees Fah.	...	...	.....
Pour Point, degrees Fah.	...	...	.....
Syphon Test	...	...	.....

Sampling.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

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

11. CAR OIL (RED OIL).—Specification L3a—Item 2765.

Scope.—This Specification covers the grade of petroleum oil required for the lubrication of the Axle Journals of Railway Carriages.

Manufacture.—The oil shall be a refined filtered petroleum oil, free from admixture with any compounding material whatsoever.

Properties and Tests.—The oil shall be free from mineral acid and alkali, and asphaltic, tarry, or suspended matter, and in other respects shall comply with the conditions mentioned hereunder :—

	Maximum.	Minimum.
Viscosity at 70° F.	3.50	2.90
Viscosity at 140° F., dynes per square cm.	0.35	0.25
Fire point, degrees Fahr.	...	370
Pour Point, degrees Fahr.	5	—
Syphon Test, cubic centimetres at 140° F.	...	7.0

Oils submitted under this Specification will be subjected to tests to determine the following properties :—

Specific Gravity, 15.5° C./15.0° C.	Fire Point
Viscosity at 70° F., dynes per sq. cm.	Pour Point
Viscosity at 100° F., dynes per sq. cm.	Syphon Test.
Viscosity at 140° F., dynes per sq. cm.	Saponifiable Matter.
	Carbon Residue.

and consideration will be given to the results obtained in deciding the oil 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 reasonably agree therewith.

Information to be Supplied by Tenderer.—The tenderer shall supply the following information regarding the oils he tenders to supply :—

Specific Gravity 15.5° C./15.0° C.	...	...	.....
Viscosity at 70° F., dynes per square cm.	...	...	.....
Viscosity at 100° F., dynes per square cm.	...	...	.....
Viscosity at 140° F., dynes per square cm.	...	...	.....
Fire Point, degrees Fah.	...	...	.....
Pour Point, degrees Fah.	...	...	.....
Syphon Test	...	...	.....

Sampling.—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least five (5) containers, and in no case from less than ten (10) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

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

APPENDIX "K"

GREASE AND PARAFFIN WAX.

7. GEAR GREASE.—SPECIFICATION M1—Item No. 2771.

Scope.—This Specification covers the grade of grease required for the lubrication of Gears and Conveyors.

Manufacture.—The grease shall be a well-manufactured product, composed of a lime-soap made from high-grade animal or vegetable oils, or fatty acids, and a highly-refined mineral oil, or a mineral oil compounded with high-grade animal fat.

Properties and Tests.—The grease shall comply with the conditions mentioned hereunder:—

	Soap Content, per cent. approximate	Ash, per cent.	Melting Point	
			Soft	Drop
		Maximum	Minimum	Minimum
Dark Gear Grease	18	7.0	148°	163°

Mineral Oil.—When mineral oil alone is used for dissolving the soap, it shall be a well-refined mineral oil.

Saponifiable Matter.—When a compounded oil is used for dissolving the soap, it shall contain about 20 per cent. Saponifiable Matter.

Free Alkali.—The grease shall contain not more than 10 per cent. of free alkali.

Moisture.—The moisture present shall not be greater in quantity than one-half the dry soap content.

Corrosion.—A clean copper plate shall not be discoloured when submerged in the grease for 24 hours at room temperature.

Special Tests.—Greases submitted under this Specification will be subjected to tests to determine the following properties:—

Consistency,
Melting and Dropping Points.

Sampling and Testing.—A composite sample shall be taken from each delivery. It shall be at least one (1) lb. in weight, and shall be drawn from at least five (5) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

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, etc."

8. GREASE.—Specification M2—Items Nos. 2772 to 2778.

Scope.—This Specification covers the grade of grease required for the lubrication of Road and Rail Motor Chassis Parts, Gears, and of such parts of Motor Equipment and other Machinery as are lubricated by means of compression Cups. Grease, Cup, No. 2, is suitable for Ball Bearings, grease packed or lubricated with Grease Gun. Grease, Cup, No. 3, is suitable for Ball Bearings lubricated with compression Cups. Grade No 4 to be used for Pantograph Collectors.

Four grades are specified, and the order shall state which grade is required and the purpose for which it is to be used.

Manufacture.—The grease shall be a well-manufactured product, composed of a calcium soap made from high-grade animal or vegetable oils, or fatty acids, and a highly-refined mineral oil.

Properties and Tests.—The grease shall be smooth and uniform, and, in other respects, shall comply with the conditions mentioned hereunder:—

	Soap Content, per cent. approximate.	Ash, per cent.	Melting Point.	
			Soft.	Drop.
		Maximum.	Minimum.	Minimum.
No. 2 Cup Grease ...	15	2.5	—	—
No. 3 Cup Grease ...	18	3.0	146°	165°
No. 4 Cup Grease ...	23	3.5	170°	188°
No. 5 Cup Grease ...	30	3.5	—	195° F.

Mineral Oil.—The mineral oil used in reducing the soaps shall be a straight, well-refined mineral oil.

Consistency.—The greases shall be similar in consistency to the approved trade standards for Nos. 2, 3, 4 and 5 grease.

Moisture.—The grease shall be a boiled grease, and shall contain a minimum of water when finished.

Corrosion.—A clean copper plate shall not be discoloured when submerged in the grease for 24 hours at room temperature.

APPENDIX "K"—continued.

GREASE AND PARAFFIN WAX—continued.

Fillers.—The grease shall contain no fillers, such as resin, resinous oils, soapstone, wax, talc, powdered mica or graphite, sulphur, clay, asbestos or the like.

Special Tests.—Greases submitted under this Specification will be subjected to tests to determine the Melting and Dropping Points.

Sampling and Testing.—A composite sample shall be taken from each delivery. It shall be at least one (1) lb. in weight, and shall be drawn from at least five (5) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

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, etc."

9. ANTI-FRICTION GREASE.—Specification M3—Item No. 2779.

Scope.—This Specification covers the grade of grease required for the lubrication of Rough Machinery, of Rails at Switches and Curves, and for other similar purposes.

Manufacture.—The grease shall be a well-manufactured product, composed of a calcium soap made from rosin oil, and mineral oil, or other oils.

Properties and Tests.—The grease shall be smooth and uniform, and, in other respects, shall comply with the conditions mentioned hereunder:—

	Maximum.
Water	6.5 per cent.
Ash	8.0 per cent.

Consistency.—The grease shall be of such a consistency as to be suitable for the purpose for which it is required.

Sampling and Testing.—A composite sample shall be taken from each delivery. It shall be at least one (1) lb. in weight, and shall be drawn from at least five (5) per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

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, etc."

10. SPECIFICATION FOR ITEM No. 2780.

Specification.—The Grease shall be suitable for the lubrication of Westinghouse Brake Cylinders and Triple Valves.

The Grease shall be a refined petroleum cylinder oil free from admixture with any compounding material whatever.

The Grease shall be free from mineral acid, alkali, and asphaltic tarry or suspended matter, and in other respects shall comply with the conditions mentioned hereunder:—

		Min.	Max.
Viscosity at 212° F.	= Dynes per sq. cm.	20	28
Flash Point (open test)	= Dgrs. Fahr.	470° F.	
Fire Point	= " "	536° F.	
Melting Point (soft)	= " "	60° F.	
Melting Point (drop)	= " "	—	88° F.
Ash		Nil.	

The Tenderer shall supply with his tender a sample of the lubricating grease he offers to supply. The sample shall be subject to tests to determine the following properties:—Volatility, Ash, cold pour point, Organic Acidity, Saponifiable matter. Consideration will be given to the results obtained in deciding the grease to be accepted.

A composite sample shall be taken from each delivery and shall be drawn from at least 5 per cent. of the containers. Such sample shall be accepted as accurately representing the quality of the delivery.

The sample shall be tested according to the methods described in "Circular of Australian Railways—Testing of Lubricating, fuel, oils, etc."

The grease shall be supplied in Drums with the contents plainly marked on the outside.

Payment will be made on the Specific gravity as disclosed by the Engineer of Tests.

11. SPECIFICATION FOR Items Nos. 2781 and 2782.

The Grease tendered shall be suitable for the lubrication of—

Item No. 2781—Journals on locomotives provided with grease cellars.

Item No. 2782—Crank and Coupling Pins provided with High Pressure Grease Gun attachment.

It shall be of such a nature that it shall lubricate effectively at all loads and speeds, and shall be suitable for use throughout the year.

The Grease shall be a well manufactured product, and it shall be composed of a soda soap made of tallow, combined with a well refined cylinder stock from crude petroleum oil. It shall be smooth and uniform, shall not crumble under pressure, and shall be free from grit.

APPENDIX "K"—continued.

GREASE AND PARAFFIN WAX—continued.

The soap content shall be—

Item No. 2781.—Not less than 45 per cent.

Item No. 2782.—Not less than 30 per cent.

The Tenderer shall submit with his tender a sample of not less than one (1) lb., also as many possible of the following particulars of the Grease Compound he tenders to supply:—

- (a) Soft temperature.
- (b) Drop temperature.
- (c) Consistency.
- (d) Moisture content.
- (e) Free Alkali content.
- (f) Soap Content.
- (g) Oil content.
- (h) Ash content.
- (i) Grit content.

The sample will be further tested by and at the cost of the Corporation, and all deliveries of Grease under this service shall show no appreciable variation from such sample.

The Grease shall be put up in moisture proof barrels, drums or other approved containers with the nett weight plainly marked on each.

12. SPECIFICATION FOR PETROLEUM JELLY.—*Items Nos. 2784 and 2785.*

The Petroleum Jelly shall be a purified mixture of semi-solid hydrocarbons of the very best quality obtained from petroleum, free from odour, mineral acid, or alkali, fixed oils, fats, resin and other additions. It shall be completely soluble in Heavy Benzine.

The Petroleum Jelly shall have a melting point of not less than 100° F.

On incineration in a porcelain crucible, not more than 0.05 per cent. of mineral matter shall remain in the crucible.

The Tenderer shall indicate the specific gravity at 15.5° C.

13. The Tenderer shall supply a complete chemical and physical analysis of the Grease or Greases tendered for each item.

APPENDIX "L"

ROLLED STEEL.

SPECIFICATION FOR

MILD STEEL ANGLES, CHANNELS, JOISTS, BARS, FLATS, TYRE RETAINING RINGS, PLATES, SHEETS AND RIVET BARS.

ITEMS 2421, 2442, 2442A-2443A, 2442B-2443B, 2457-2465, 2457A-2465A, 2477-2485, 2487-2491A, 2493, 2493A, 2508-2529A, 2547-2551C, 2558-2560, 2580-2588, 2580A-2588A and 2615-2621.

1. Particulars.

The Angles, Channels, Joists, Bars, Flats, Tyre Retaining Rings, Plates, Sheets and Rivet Bars except where shown otherwise in this Specification shall be in accordance with A.S.S. No. A1—1931 for "A" Class Steel.

2. Limits of Tolerance.

The Steel shall be true to the ordered dimensions within the following limits of tolerance—

ANGLES, CHANNELS AND JOISTS.

Section Dimensions and Weight:—As specified in A.S.S. No. A1—1931.

Length:—Plus 2 in. minus Nil.

ROUND, SQUARE, RIVET AND FLAT BARS.

		Minus	Plus
Up to $\frac{1}{2}$ " dia.	thickness or width	0·007"	0·007"
Over $\frac{1}{2}$ " to 1" dia.	" "	0·010"	0·010"
Over 1" to 2" dia.	" "	$\frac{1}{64}$ "	$\frac{1}{32}$ "
Over 2" to 3" dia.	" "	$\frac{1}{32}$ "	$\frac{3}{64}$ "
Over 3" to 5" dia.	" "	$\frac{1}{32}$ "	$\frac{3}{32}$ "
Over 5" to 8" dia.	" "	$\frac{1}{16}$ "	$\frac{1}{8}$ "
Over 8"	" "	$\frac{1}{8}$ "	$\frac{1}{8}$ "
Length:—Plus 2" minus Nil.			

RECTANGULAR BARS FOR NUTS.

(a) Melbourne Iron and Steel Mills.

	Minus	Plus
Over $\frac{1}{2}$ " up to 1" thickness or width	0·010"	0·010"
Over 1" up to 2" " "	0·0156"	0·0156"

(b) McPherson's Pty. Ltd.

	WIDTH.		THICKNESS.			
			Over $\frac{1}{2}$ " up to 1".		Over 1" up to 2".	
	Plus	Minus	Plus	Minus	Plus	Minus
Up to and including 1" ...	$\frac{1}{32}$ "	$\frac{1}{64}$ "	0·010"	0·010"	—	—
Over 1" up to and including 2"	$\frac{3}{64}$ "	$\frac{1}{32}$ "	0·015"	0·015"	$\frac{1}{32}$ "	$\frac{1}{32}$ "

PLATES.

THICKNESS	Up to 48 in. Wide		Over 48 in. Up to 60 in. Wide		Over 60 in. Up to 72 in. Wide	
	Over	Under	Over	Under	Over	Under
Under $\frac{3}{16}$ in. ...	9·0	0·010"	10·0	0·010"	—	—
$\frac{3}{16}$ in. ...	9·0	3·0%	10·0	3·0%	11·0	3·0
$\frac{1}{4}$ in. ...	7·5	2·5%	8·5	2·5%	9·0	3·0
$\frac{1}{8}$ in. ...	6·0	2·5%	7·0	2·5%	8·0	2·5
$\frac{3}{8}$ in. ...	5·0	2·5%	5·5	2·5%	6·5	2·5
$\frac{1}{2}$ in. ...	4·0	2·5%	4·5	2·5%	5·0	2·5
$\frac{3}{4}$ in. ...	3·0	2·5%	3·5	2·5%	4·0	2·5
$\frac{7}{8}$ in. ...	2·5	2·5%	2·5	2·5%	3·0	2·5
1 in. ...	2·5	2·5%	2·5	2·5%	2·5	2·5
Over 1 in. ...	2·5	2·5%	2·5	2·5%	2·5	2·5

ROLLED STEEL—continued.

APPENDIX "L"—continued.

PLATES.

Thickness	Over 72 in. Up to 84 in. Wide		Over 84 in. Up to 96 in. Wide		Over 96 in. Up to 108 in. Wide	
	Over	Under	Over	Under	Over	Under
$\frac{3}{16}$ in.	% 12.0	% 3.0	% 14.0	% 3.0	% —	% —
$\frac{1}{4}$ in.	10.0	3.0	11.0	3.0	13.0	3.0
$\frac{5}{16}$ in.	9.0	2.5	10.0	2.5	11.0	2.5
$\frac{3}{8}$ in.	7.5	2.5	8.5	2.5	9.5	2.5
$\frac{7}{16}$ in.	6.0	2.5	7.0	2.5	8.0	2.5
$\frac{1}{2}$ in. and $\frac{9}{16}$ in.	4.5	2.5	5.5	2.5	6.5	2.5
$\frac{5}{8}$ in. and $\frac{11}{16}$ in.	3.5	2.5	4.0	2.5	5.0	2.5
$\frac{3}{4}$ in. and $\frac{13}{16}$ in.	3.0	2.5	3.5	2.5	4.0	2.5
$\frac{7}{8}$ in.	2.5	2.5	3.0	2.5	3.5	2.5
1 in.	2.5	2.5	2.5	2.5	3.0	2.5
Over 1 in.	2.5	2.5	2.5	2.5	2.5	2.5

Thickness	Over 108 in. Up to 120 in. Wide	
	Over	Under
$\frac{3}{16}$ in.	% —	% —
$\frac{1}{4}$ in.	15.0	3.0
$\frac{5}{16}$ in.	13.0	3.0
$\frac{3}{8}$ in.	10.5	2.5
$\frac{7}{16}$ in.	9.0	2.5
$\frac{1}{2}$ in. and $\frac{9}{16}$ in.	7.5	2.5
$\frac{5}{8}$ in. and $\frac{11}{16}$ in.	6.0	2.5
$\frac{3}{4}$ in. and $\frac{13}{16}$ in.	5.0	2.5
$\frac{7}{8}$ in.	4.5	2.5
1 in.	3.5	2.5
Over 1 in.	2.5	2.5

PLATES SHEARED TO SIZE shall not be under nor more than $\frac{3}{4}$ " over the ordered length or width.

Notwithstanding that plates within the limits of tolerance shown above will be accepted, if otherwise in accordance with this Specification, THE WEIGHT TO BE PAID FOR shall not exceed 5 per cent. over the calculated weight of the ordered dimensions of each size in each delivery, for plates $\frac{3}{16}$ inch thick and under or $2\frac{1}{2}$ per cent. over the calculated weight of the ordered dimensions of each size in each delivery for plates in excess of $\frac{3}{16}$ inch thick. (The calculated weight shall be on the basis that 1 cubic inch of Rolled Steel weighs 0.2833 lb.)

SHEETS.

Thickness	Plus	Minus
$\frac{3}{16}$ " to 13 B.G. (inclusive)	0.008"	0.008"
14 and 15 B.G. (inclusive)	0.006"	0.006"
16 and 18 B.G. (inclusive)	0.004"	0.004"
19 to 22 B.G. (inclusive)	0.003"	0.003"
23 B.G. and lighter	0.002"	0.002"
Length	$\frac{1}{2}$ "	Nil
Width	$\frac{3}{8}$ "	Nil
Cut to exact dimensions	$\frac{1}{16}$ "	$\frac{1}{16}$ "

3. Painting.

Each Mild Steel Angle, Flat, Round and Square Bar shall be painted on each end with blue paint, and rivet bars shall be painted with green paint, by and at the cost of the Contractor.

4. Inspection and Tests.

The Contractor shall supply a certificate stating the process of manufacture, and a test sheet signed by the Manufacturer, giving the results of each of the specified mechanical tests and the chemical analysis of each cast in each delivery of Steel.

In the event of any material being found after delivery, with injurious defects or not true to the specified dimensions within the specified limits of tolerance, it shall be rejected and shall be replaced by and at the cost of the Contractor, c.i.f., Melbourne, or if of Victorian manufacture, in trucks at place of delivery.

ROLLED STEEL—continued.

APPENDIX "L"—continued.

5. Defects Showing During Fabrication.

Should any portion of the material show injurious defects during course of fabrication by the Corporation the Contractor will be notified and, provided it 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 material.

6. Weights.

All weights will be ascertained by weighing the material on the weighbridge scales or other weighing machines of the Corporation at Newport, Victoria, and all such weights so ascertained by the Comptroller of Stores shall for all purposes be accepted by the parties to this Contract as correct, final and binding, always provided that the weight of Mild Steel Plates to be paid for shall not exceed 5 per cent. of the calculated weight as set out in clause 2 above.

APPENDIX "M"

SPECIFICATION FOR

CARBON STEEL BARS, OR BILLETS FOR LAMINATED SPRINGS, ETC.

ITEMS 2533 to 2533B, 2575 and 2575A

1. Particulars.

The Carbon Steel for Laminated Springs, etc., shall be in accordance with Australian Standard Specification No. E3-1930, except where shown otherwise in this Specification.

The Carbon Steel shall be commercially straight.

2. Chemical Analysis.

The Carbon Steel shall show on analysis—

Carbon	...	0.5 to 0.6%
Manganese	...	0.55 to 0.7%
Sulphur	...	0.05% maximum.
Phosphorus	...	

NOTE.—All analyses shall be carried out in accordance with the requirements of A.S.S. No. K1-1926.

3. Freedom from Defects.

For Bars as specified in A.S.S. No. E3-1930.

The Carbon Steel 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 shall be cut square on the ends and finished in a workmanlike manner and shall be commercially straight, and shall have rounded corners.

The Billets may be chipped to remove surface defects provided that the depths of chipping does not exceed $\frac{1}{16}$ inch per inch of dimensions concerned up to a maximum depth of $\frac{3}{4}$ inch, and provided also that the width of the chipping is at least four times its greatest depth. Where two chipping grooves run approximately parallel and near together, the narrow tongue between them may be removed at the discretion of the Comptroller of Stores.

4. Limits of Tolerance.

The Carbon Steel Bars or Billets shall be true to the ordered dimensions within the following limits of tolerance:—

SECTION DIMENSIONS.

Bars as specified in A.S.S. No. E3-1930:

Billets: Under 4"	Plus $\frac{1}{16}$ "	Minus $\frac{1}{16}$ "
Over 4" and under 6"	„ $\frac{3}{16}$ "	„ $\frac{1}{16}$ "

LENGTHS.

Bars Plus 1". Minus Nil.

Billets „ 2". „ Nil.

5. Brinell Test.

The Steel Bars Items 2533—2533B shall as delivered show a Brinell Hardness number of not more than 228.

6. Branding.

Each Bar or Billet shall be branded on one end with the cast number and the Manufacturer's name or trade mark, or if delivered in bundles a metal tag shall be securely attached to each bundle durably and legibly marked with the specified information.

7. Painting.

Each Bar or Billet shall be painted on each end with Yellow paint by and at the cost of the Contractor.

8. Inspection and Tests.

The Contractor shall supply a certificate stating the process of Manufacture, and a test sheet signed by the Manufacturer, giving the results of each of the specified mechanical tests and the chemical analysis of each cast in each delivery of Bars or Billets.

ROLLED STEEL—continued.

APPENDIX "M"—continued.

In the event of any Bar or Billet being found, after delivery, with injurious defects, or not true to the specified dimensions within the specified limits of tolerance, it shall be rejected and shall be replaced, by and at the cost of the Contractor, c.i.f., Melbourne, or if of Victorian manufacture, in trucks at place of delivery.

The Corporation shall have the right to make a check analysis and mechanical tests if it so desires, and if the results of the check analysis and mechanical tests do not conform to that specified the material will be liable to rejection.

9. Weights.

All weights shall be ascertained by weighing the Bars or Billets on the weighbridge scales or other weighing machines of the Corporation at Newport, Victoria, and all such weights so ascertained by the Comptroller of Stores shall, for all purposes, be accepted as correct and final and binding.

10. Defects Showing During Fabrication.

Should any Bar or Billet show injurious defects in course of fabrication by the Corporation the Contractor shall be notified, and provided the 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 Bar or Billet, c.i.f., Melbourne, or if of Victorian manufacture, in trucks at place of delivery.

APPENDIX "N."

SPECIFICATION FOR

CARBON STEEL FOR VOLUTE AND HELICAL SPRINGS, ETC.

ITEMS 2496-2496B, 2534-2534B AND 2561.

1. Particulars.

The Carbon Steel for Volute and Helical Springs, etc., shall be in accordance with Australian Specification No. E5-1930, except where shown otherwise in this Specification.

The Carbon Steel Bars shall be commercially straight.

2. Chemical Analysis.

The Carbon Steel Bars shall show on analysis :—

Carbon	...	0.85 to 0.95%
Manganese	...	0.55 to 0.70%
Sulphur	...	0.05% maximum.
Phosphorus	...	

3. Limits of Tolerance.

The Carbon Steel Bars shall be true to the ordered dimensions within the following limits of tolerance :—

SECTION DIMENSIONS.

As specified in A.S.S. No. E5-1930.

LENGTH.

Plus 1". Minus Nil.

4. Painting.

Each Bar shall be painted on each end with Purple paint by and at the cost of the Contractor.

5. Inspection and Tests.

The Contractor shall supply a certificate stating the process of Manufacture, and a test sheet signed by the Manufacturer, giving the chemical analysis of each cast in each delivery of Bars.

In the event of any Bar being found, after delivery, with injurious defects, or not true to the specified dimensions within the specified limits of tolerance, it shall be rejected and shall be replaced, by and at the cost of the Contractor, c.i.f., Melbourne.

The Corporation shall have the right to make a check analysis if it so desires, and if the result of the check analysis does not conform to that specified the material will be liable to rejection.

6. Weight.

All weights shall be ascertained by weighing the Bars on the weighbridge scales or other weighing machines of the Corporation at Newport, Victoria, and all such weights so ascertained by the Comptroller of Stores shall, for all purposes, be accepted as correct and final and binding.

7. Defects Showing During Fabrication.

Should any Bar show injurious defects in course of fabrication by the Corporation the Contractor shall be notified, and provided the 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 Bar, c.i.f., Melbourne, or if of Victorian manufacture, in trucks at place of delivery.

ROLLED STEEL—continued.

APPENDIX "O."

SPECIFICATION FOR
CARBON STEEL FOR SPRING WASHERS.

ITEM 2562 and 2562A.

The Carbon Steel Bars shall have a carbon content of from .70% to .80% and shall be suitable for the manufacture of Spring Washers in accordance with Australian Standard Specification No. 27-1928.

No Carbon Steel Bar shall be more than $\frac{1}{64}$ " over or $\frac{1}{64}$ " under the ordered sectional dimensions.

In all other respects Specification Appendix "N" shall apply to these Carbon Steel Bars.

APPENDIX "P."

SPECIFICATION FOR
BOILER QUALITY ANGLES OR BARS.

ITEMS 2428, 2444, 2444A, 2444B, 2494-2494A, 2535.

1. Quality.

The Boiler Quality Angles or Bars shall be manufactured from Steel made from selected material by the Open Hearth process.

2. Particulars.

The Angles and Bars shall be in accordance with Australian Standard Specification No. E6-1925 T, except where shown otherwise in this Specification. The Angles and Bars shall be commercially straight.

3. Limits of Tolerance.

The Steel Angles and Bars shall be true to the ordered dimensions within the following limits of tolerance:—

SECTION DIMENSIONS AND WEIGHT.

ANGLES as specified in A.S.S. No. A1-1931.

BARS.		Minus.	Plus.
Up to $\frac{1}{2}$ " dia.	thickness or width	0.007"	0.007"
Over $\frac{1}{2}$ " to 1" dia.	" "	0.010"	0.010"
Over 1" to 2" dia.	" "	$\frac{1}{64}$ "	$\frac{3}{32}$ "
Over 2" to 3" dia.	" "	$\frac{1}{32}$ "	$\frac{3}{16}$ "
Over 3" to 5" dia.	" "	$\frac{1}{16}$ "	$\frac{3}{8}$ "
Over 5" to 8" dia.	" "	$\frac{1}{8}$ "	$\frac{1}{4}$ "
Over 8"	" "	$\frac{1}{4}$ "	$\frac{1}{2}$ "

4. Painting.

Each Angle and Bar shall be painted on each end with GREY paint by and at the cost of the Contractor.

5. Inspection and Tests.

The Contractor shall supply a certificate stating the process of manufacture, and a test sheet signed by the Manufacturer, giving the results of each of the specified mechanical tests and the chemical analysis of each cast in each delivery of Steel.

In the event of any material being found after delivery, with injurious defects or not true to the specified dimensions within the specified limits of tolerance, it shall be rejected and shall be replaced by and at the cost of the Contractor, c.i.f., Melbourne, or if of Victorian manufacture, in trucks at place of delivery.

6. Defects Showing During Fabrication.

Should any portion of the material show injurious defects during course of fabrication by the Corporation the Contractor will be notified and, provided it 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 material.

7. Weights.

All weights will be ascertained by weighing the material on the weighbridge scales or other weighing machines of the Corporation at Newport, Victoria, and all such weights so ascertained by the Comptroller of Stores shall for all purposes be accepted by the parties to this Contract as correct, final and binding.

ROLLED STEEL—continued.

APPENDIX "Q."

SPECIFICATION FOR

INGOT IRON (LOW CARBON STEEL) BARS, FLATS, BILLETS, BLOOMS AND SLABS.

ITEMS 2492, 2531, 2563-2573.—

1. Chemical Analysis.

The Ingot Iron Bars, Flats, Billets, Blooms or Slabs shall show on analysis :—

	Minimum.	Maximum.
	%	%
Carbon	—	0.10
Manganese	0.40	0.60
Silicon	0.12	0.30
Sulphur	—	0.07
Phosphorus	—	0.07

All analyses shall be carried out in accordance with the requirements of Australian Standard Specification No. K1-1926.

2. Freedom from Defects.

The Ingots shall be free from cracks, surface flaws, laminations or any other injurious defects. Sufficient discard shall be cropped to remove all pipe or contraction cavities. The Billets, Blooms or Slabs may be chipped to remove surface defects provided that the depth of chipping does not exceed $\frac{1}{16}$ " per inch of dimensions concerned up to a maximum depth of $\frac{3}{4}$ ", and provided also that the width of the chipping is at least four times its greatest depth. Where two chipping grooves run approximately parallel and near together, the narrow tongue between them may be removed at the discretion of the Comptroller of Stores.

The Bars, Flats and Billets shall be cut square on the ends, finished in a workmanlike manner and shall be commercially straight. The Billets, Blooms and Slabs shall have rounded corners.

3. Limits of Tolerance.

The Ingot Iron Bars, Flats, Blooms, Billets and Slabs shall be true to the ordered dimensions within the following limits of tolerance :—

BARS OR FLATS.		Minus.	Plus.
Up to $\frac{1}{2}$ " dia.	thickness or width	0.007"	0.007"
Over $\frac{1}{2}$ " to 1" dia.	" "	0.010"	0.010"
Over 1" to 2" "	" "	$\frac{1}{64}$ "	$\frac{1}{32}$ "
Over 2" to 3" "	" "	$\frac{1}{32}$ "	$\frac{3}{64}$ "
Over 3" to 5" "	" "	$\frac{1}{32}$ "	$\frac{3}{32}$ "
Over 5" to 8" "	" "	$\frac{1}{16}$ "	$\frac{1}{8}$ "
Over 8" dia.	" "	$\frac{1}{8}$ "	$\frac{1}{8}$ "

Length.—Plus 2". Minus Nil.

BILLETS, BLOOM AND SLABS.

Section Dimensions :—

Under 4" Plus $\frac{1}{16}$ ". Minus $\frac{1}{16}$ "Over 4" to 6" Plus $\frac{3}{16}$ ". Minus $\frac{1}{16}$ "Over 6" Plus $\frac{1}{4}$ ". Minus $\frac{1}{8}$ "

Length.—Plus 2". Minus Nil.

4. Impact Test.

A Standard three notch impact test piece machined cold from the material in the case of Bars and Flats as received, and in the case of Billets, Blooms and Slabs after normalising by heating to 920°C. and cooling freely in the air, and to the form and dimensions shown in British Standard Specification No. 131-1933, shall, on being tested, average not less than 60 ft. lb. At the time of testing the "IZOD" test bar shall be at a temperature of between 65°F. and 75°F.

5. Number of Tests.

One impact test shall be taken from each cast in each delivery of Bars and Flats and from each batch of Billets, Blooms and Slabs heat treated together, or if there is more than one cast represented in such batch then one impact test shall be taken from each cast in the batch. If any test piece shows defective machining or discloses flaws, it may be discarded, in which case another specimen from the same cast shall be substituted.

6. Additional Tests before Rejection.

Should a test piece first selected by the Receiving Officer not fulfil the test requirements two additional tests shall be taken from the same batch or cast. Should one of the additional test pieces fail to fulfil the specified test requirements, the lot represented by such test pieces shall be rejected.

7. Brinell Tests.

The Ingot Iron shall show a hardness number of not less than 100 when measured by the Brinell Test.

ROLLED STEEL—continued.

APPENDIX "Q"—continued.

8. **Branding.**

Each Bar, Flat, Billet, Bloom or Slab shall be branded on the end with the cast number and the manufacturer's name or trade mark, and a brand indicating that it is Ingot Iron. Small section bars delivered in bundles shall have a metal tag securely attached durably and legibly marked with the specified information.

9. **Painting.**

The ends of each Bar, Flat, Billet, Bloom and Slab shall be painted White with a Black band by and at the cost of the Contractor.

10. **Inspection and Tests.**

All mechanical tests will be conducted by and at the cost of the Corporation on its premises.

The Contractor shall supply a certificate stating the process of Manufacture, and a test sheet signed by the Manufacture, giving the results of the chemical analysis of each cast in each delivery of Ingot Iron.

In the event of any Ingot Iron material being found, after delivery, with injurious defects, or not true to the specified dimensions within the specified limits of tolerance, it shall be rejected and shall be replaced, by and at the cost of the Contractor, c.i.f., Melbourne, or if of Victorian manufacture, in trucks at place of delivery.

11. **Weights.**

All weights shall be ascertained by weighing the Ingot Iron on the weighbridge scales or other weighing machines of the Corporation at Newport, Victoria, and all such weights so ascertained by the Comptroller of Stores shall, for all purposes, be accepted as correct and final and binding.

12. **Defects Showing During Fabrication.**

Should any portion of the Ingot Iron show injurious defects in course of fabrication by the Corporation the Contractor shall be notified, and provided the material 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 material, c.i.f., Melbourne; or if of Victorian manufacture, in trucks at place of delivery.

APPENDIX "R"

SPECIFICATION FOR

**BESCOM STEEL GRADE "A" (LOW CARBON) AND GRADE "B" (HIGH CARBON)
BARS, FLATS, BILLETS, BLOOMS AND SLABS.**

ITEMS 2495, 2532, 2552, 2552A, 2574 AND 2574A.

1. **Chemical Analysis.**

The Bescom Steel Bars, Flats, Billets, Blooms and Slabs shall show on analysis :—

			Grade "A" Low Carbon		Grade "B" High Carbon	
			Min.	Max.	Min.	Max.
			%	%	%	%
Carbon	...	...	0.25	0.30	0.35	0.40
Manganese	...	...	1.40	1.70	1.40	1.7
Silicon	...	...	0.10	0.30	0.10	0.30
Sulphur	...	...	—	0.05	—	0.05
Phosphorus	...	...	—	0.05	—	0.05

All analyses shall be carried out in accordance with requirements of Australian Standard Specification No. K. 1-1926.

2. **Check Analysis.**

A check analysis may be made by the Corporation from a Bar, Flat, Billet, Bloom or Slab representing each cast. The Chemical composition thus determined shall conform to the requirements specified in clause 1.

Drillings for check analysis shall be taken with a drill from the end at any point midway between the centre and the surface of the Bloom.

3. **Freedom from Defects.**

The Bescom Steel shall be free from cracks, surface flaws, laminations or any other injurious defects. Sufficient discard shall be cropped to remove all pipe or contraction cavities. The Billets, Blooms or Slabs may be chipped to remove surface defects provided that the depth of chipping does not exceed $\frac{1}{16}$ inch per inch of dimensions concerned up to a maximum depth of $\frac{3}{4}$ inch, and provided also that the width of the chipping is at least four times its greatest depth. Where two chipping grooves run approximately parallel and near together, the narrow tongue between them may be removed at the discretion of the Comptroller of Stores. The Bars, Flats and Billets shall be cut square on the ends, finished in a workmanlike manner and shall be commercially straight. The Billets, Blooms and Slabs shall have rounded corners.

ROLLED STEEL—continued.

APPENDIX "R"—continued.

4. Limits of Tolerance.

The Bescom Steel Bars, Flats, Blooms, Billets and Slabs shall be true to the ordered dimensions within the following limits of tolerance :—

BARS OR FLATS.		Minus	Plus
Up to $\frac{1}{2}$ "	diameter, thickness or width	0.007"	0.007"
Over $\frac{1}{2}$ " to 1"	" " "	0.010"	0.010"
Over 1" to 2"	" " "	$\frac{1}{64}$ "	$\frac{1}{32}$ "
Over 2" to 3"	" " "	$\frac{1}{32}$ "	$\frac{3}{64}$ "
Over 3" to 5"	" " "	$\frac{1}{16}$ "	$\frac{3}{32}$ "
Over 5" to 8"	" " "	$\frac{1}{8}$ "	$\frac{1}{8}$ "
Over 8"	" " "	$\frac{1}{4}$ "	$\frac{1}{4}$ "
Length.	Plus 2" minus Nil.		

Item No. 2552 Flats for 1" Superheater Element Nuts :—

(a) Melbourne Iron and Steel Mills—

Width and Thickness ... Plus or Minus $\frac{1}{64}$ "

(b) McPherson's Pty. Ltd.

Width ... Plus $\frac{3}{64}$ " Minus $\frac{1}{32}$ "

Thickness ... " $\frac{1}{32}$ " " $\frac{1}{32}$ "

BILLETS, BLOOMS AND SLABS.

Section Dimensions :

Under 4" ...	plus $\frac{1}{16}$ "	minus $\frac{1}{16}$ "
Over 4" to 6" ...	" $\frac{3}{16}$ "	" $\frac{1}{16}$ "
Over 6" ...	" $\frac{1}{4}$ "	" $\frac{1}{8}$ "
Length.	Plus 2" minus Nil.	

5. Branding.

Each Bar, Flat, Billet, Bloom or Slab shall be branded on the end with the cast number and the Manufacturer's name or trade mark, and a brand indicating that it is Bescom Steel. Small section bars delivered in bundles shall have a metal tag securely attached durably and legibly marked with the specified information.

6. Painting.

The ends of each Bar, Flat and Billet of Grade "B" (High Carbon) Bescom Steel shall be painted with Orange paint by and at the cost of the Contractor.

Grade "A" not to be painted.

7. Inspection and Tests.

The Contractor shall supply a certificate stating the process of manufacture, and a test sheet signed by the manufacturer, giving the results of the chemical analysis of each cast in each delivery of Bars, Flats, Billets, Blooms or Slabs, under the Contract.

In the event of any Bar, Flat, Billet, Bloom or Slab being found after delivery, with injurious defects or not true to the specified dimensions within the specified limits of tolerance, it shall be rejected and shall be replaced by and at the cost of the Contractor, c.i.f., Melbourne, or if of Victorian manufacture, in trucks at place of delivery.

8. Weights.

All weights shall be ascertained by weighing the Bescom Steel on the weighbridge scales or other weighing machines of the Corporation at Newport, Victoria, and all such weights so ascertained by the Comptroller of Stores shall, for all purposes, be accepted as correct and final and binding.

9. Defects Showing During Fabrication.

Should any portion of the Bescom Steel show injurious defects in course of fabrication by the Corporation the Contractor shall be notified, and provided the material 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 material, c.i.f., Melbourne, or if of Victorian manufacture, in trucks at place of delivery.

APPENDIX "S."
SPECIFICATION FOR
NUT STEEL BARS.

ITEMS 2547-2551C.

1. Particulars.

The Nut Steel Bars shall be suitable for the manufacture of Nuts and shall possess good screwing qualities.

Limits of Tolerance.

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

(a) Melbourne Iron and Steel Mills—

For $\frac{1}{2}$ " to 1" Thickness or Width Plus or Minus 0.010"

Over 1" to 2" " " Minus $\frac{1}{64}$ ", Plus $\frac{1}{32}$ "

ROLLED STEEL—continued.

APPENDIX "S"—continued.

(b) McPherson's Pty. Ltd.—

	WIDTH.		THICKNESS.			
			Over $\frac{1}{2}$ " up to 1"		Over 1" up to 2"	
	Plus.	Minus.	Plus.	Minus.	Plus.	Minus.
Up to and including 1" ...	$\frac{1}{32}$ "	$\frac{1}{64}$ "	0·010"	0·010"	—	—
Over 1" up to and including 2"	$\frac{3}{84}$ "	$\frac{1}{32}$ "	0·015"	0·015"	$\frac{1}{32}$ "	$\frac{1}{32}$ "

3. Branding.

The Nut Steel Bars shall be bundled and securely tagged with a metal tag, stamped with the cast number and Manufacturer's name or trade mark and the words "Nut Steel."

4. Inspection and Tests.

The Contractor shall supply a test sheet signed by the Manufacturer giving the results of each of the specified mechanical tests and chemical analysis of each cast in each delivery. In the event of any Nut Steel Bar being found after delivery with injurious defects or not true to the specified dimensions within the specified limits of tolerance it shall be rejected and shall be replaced by and at the cost of the Contractor.

5. Weights.

All weights shall be ascertained by weighing the Nut Steel Bars on the weighbridge scales or other weighing machines of the Corporation at Newport, Victoria, and all such weights so ascertained by the Comptroller of Stores shall, for all purposes, be accepted as correct and final and binding.

6. Defects Showing During Fabrication.

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

The Nut Steel shall show on analysis:—

(a) *Melbourne Iron and Steel Mills.*

Carbon	·1% maximum
Manganese	·5% to ·7%
Phosphorus	·08% maximum
Sulphur	·12% "
Silicon	—

(b) *McPherson's Pty. Ltd.*

Carbon	·1% to ·15%
Manganese	·5% to ·7%
Phosphorus	·09% maximum
Sulphur	·1% to ·15%
Silicon	·1% maximum

The physical properties of the Nut Steel shall be:—

Melbourne Iron and Steel Mills.

Ultimate Tensile Strength
about 28-32 tons

McPherson's Pty. Ltd.

Ultimate Tensile Strength 27 tons
Elongation 25%

APPENDIX "T."

SPECIFICATION FOR

MILD STEEL TYRE RETAINING RING SECTION.

ITEMS 2553-2557.

1. Particulars.

The Mild Steel Section shall be in accordance with Australian Standard Specification No. A1-1931 as applied to Mild Steel Bars for "A" class steel, and with the particulars shown on V.R. Drawings shown opposite the particular item in the Schedule.

The Mild Steel Sections shall be cut square on the ends and shall be commercially straight.

2. Limits of Tolerance.

The Section shall be rolled within the limits of tolerance shown on the specified V.R. Drawings. No length shall be under, nor more than 1" over that ordered.

ROLLED STEEL—continued.

APPENDIX "T"—continued.

3. Inspection and Tests.

All inspection and tests will be conducted by and at the cost of the Department at the Newport Rolling Stock Workshops.

4. Weights.

All weights shall be ascertained by weighing the Mild Steel Sections on the weighbridge scales or other weighing machines of the Department at Newport, Victoria, and all such weights so ascertained by the Comptroller of Stores shall, for all purposes, be accepted as correct, and final and binding.

5. Defects Showing During Fabrication.

Should any portion of a Mild Steel Section show injurious defects in course of fabrication by the Department, the Contractor shall be notified, and provided the Mild Steel Section has been properly treated by the Department, the Contractor shall, at his own expense, and at the discretion of the Comptroller of Stores, replace or make good the defective section.

APPENDIX "U."

SPECIFICATION FOR

STEEL BILLETS, BLOOMS AND SLABS FOR FORGINGS AND AXLES.

ITEMS 2563-2573, 2563A-2573A.

1. Particulars.

Class J, K, L, M, P and Mild Steel, Billets, Blooms and Slabs for Forgings shall, except where shown otherwise in this Specification, be in accordance with Australian Standard Specification No. E16-1927T.

Class S, T and U Billets, Blooms and Slabs for Axles, etc., shall, except where shown otherwise in this Specification, be in accordance with Australian Standard Specification No. E18-1927T.

All Billets, Blooms and Slabs shall be cut square on the ends and shall be commercially straight.

All Billets, Blooms and Slabs, other than Round Blooms, shall have rounded corners.

Particulars of the various classes of Steel for Billets, Blooms and Slabs are as follows:—

Class	Description of Forgings	Process of Manufacture	Percentage of Sulphur or of Phosphorus	Tensile Breaking Strength Tons per sq. in.	Minimum Elongation. Per cent.
J.	Special Forgings which will be case hardened	Acid or Basic Open Hearth or Electric	0.05	Up to 27	25
K.	Ordinary Forgings ...	Acid or Basic Open Hearth or Electric	0.06	25 with 27 to 32 with 20	
L	Special Forgings without wearing surfaces	Acid Open Hearth Basic Open Hearth Electric ...	0.05 0.04 0.04	32 with 25 to 38 with 20	
M	Special Forgings with wearing surfaces	Acid Open Hearth Basic Open Hearth Electric ...	0.05 0.04 0.04	40 with 20 to 45 with 15	
P	Boiler Forgings ...	Acid Open Hearth Basic Open Hearth Electric ...	0.05 0.04 0.04	26 with 28 to 32 with 22	
Mild Steel	Ordinary Forgings ...	Acid or Basic Open Hearth or Electric	0.06	28 } with 20% Min. { to } 33 }	Test Piece "B"

ROLLED STEEL—continued.

APPENDIX "U"—continued.

Particulars of the various classes of Steel for Billets, Blooms and Slabs—continued.

Class	Description of Forgings	Process of Manufacture	PERCENTAGE		Tensile Breaking Strength Tons per sq. in.	Minimum Elongation Per cent.
			Sulphur	Phosphorus		
S	Crank Axle	Acid Open Hearth	·04	·05	min. 32	22
		Basic Open Hearth	·04	·04		
		Electric	·04	·04		
T	Straight Loco. Axles	Acid Open Hearth	·05	·05	35 with 25 to 40 with 20	
		Basic Open Hearth	·04	·04		
		Electric	·04	·04		
U	Tender, Car and Wagon Axles	Acid Open Hearth	·05	·05	35 with 25 to 40 with 20	
		Basic Open Hearth				
		Electric				

2. Test Pieces.

The test pieces from other than Round Blooms shall be taken from a section drawn down to not less than 80% of the original section of the Billet, Bloom or Slab. The section drawn down for test shall receive the same treatment as is to be applied to the finished forgings and may be normalised before the test pieces are cut therefrom. The test pieces from ROUND BLOOMS shall be cut from pieces of the Round Bloom as rolled. The Round Bloom selected for test may be normalised (at the option of the Manufacturer) before the test pieces are cut from it.

The Bend test piece from all Billets, Blooms or Slabs shall be bent until the sides are parallel only, without fracture.

3. Chipping for Surface Defects.

BILLETS, BLOOMS AND SLABS (ROUND EXCEPTED).

As specified in A.S.S. No. E16 and 18-1927T.

ROUND BLOOMS.

The maximum depth of chippings shall be as stated on each order.

4. Rolling Margin.

The Billets, Blooms and Slabs shall be true to the ordered dimensions within the following limits of tolerance:—

BILLETS, BLOOMS AND SLABS (ROUND EXCEPTED).

Section Dimensions:—

Under 4"	Plus $\frac{1}{16}$ "	Minus $\frac{1}{16}$ "
Over 4" up to 6"	Plus $\frac{3}{16}$ "	Minus $\frac{1}{8}$ "
Over 6"	Plus $\frac{1}{4}$ "	Minus $\frac{3}{8}$ "

WEIGHT.—No Billet, Bloom or Slab shall be under nor more than 5% over the ordered weight. When ordered to length—Plus 2". Minus Nil.

ROUND BLOOMS.

Diameter	Plus $\frac{3}{16}$ "	Minus Nil.
Length	Plus $\frac{1}{2}$ "	Minus Nil.

The Round Blooms shall be not more than $\frac{1}{4}$ " out of straight in eight feet of length.

5. Branding.

Each Billet, Bloom and Slab shall be branded on each end with the cast number, the Manufacturer's name or trade mark, and the class letter. The letters "M.S." shall be taken as the class letter for Mild Steel Billets, Blooms or Slabs.

6. Painting.

The ends of each M.S. Bloom shall be painted with blue paint by and at the cost of the Contractor.

7. Inspection and Tests.

The Contractor shall supply a certificate stating the process of manufacture, and a test sheet signed by the Manufacturer, giving the results of each of the specified mechanical tests and the chemical analysis of each cast in each delivery of Billets, Blooms and Slabs under the Contract.

In the event of any Billet, Bloom or Slab being found after delivery, with injurious defects or not true to the specified dimensions and weights within the specified limits of tolerance, it shall be rejected and shall be replaced by and at the cost of the Contractor, c.i.f., Melbourne, or if of Victorian manufacture, in trucks at place of delivery.

8. Weights.

All weights shall be ascertained by weighing the Steel Billets, Blooms and Slabs on the weighbridge scales or other weighing machines of the Corporation, and all such weights so ascertained by the Comptroller of Stores shall for all purposes be accepted by the parties to this Contract as correct and final and binding.

ROLLED STEEL—continued.

APPENDIX "U"—continued.

9. Defects Showing During Fabrication.

Should any Billet, Bloom or Slab show injurious defects in course of fabrication by the Corporation the Contractor shall be notified and provided the Billet, Bloom or Slab has been properly treated by the Corporation, shall at his own expense and at the discretion of the Comptroller of Stores replace or make good the defective Billet, Bloom or Slab.

APPENDIX "V".

SPECIFICATION FOR
FISHBOLT STEEL BARS.

ITEM 2486, 2486A

1. Particulars.

The Fishbolt Steel Bars shall be in accordance with Australian Standard Specification No. E. 25-1928 (except where shown otherwise in this Specification). The Bars shall be commercially straight.

2. Limits of Tolerance.

The Bars shall be true to the ordered dimensions within the following limits of tolerance:—

Over $\frac{1}{2}$ " dia. up to 1" dia. ... Plus 0.010" Minus 0.010"
Length. Plus 2" Minus Nil.

3. Painting.

The ends of each bar shall be painted Blue with a White band by and at the cost of the Contractor.

4. Inspection and Tests.

The Contractor shall supply a certificate stating the process of manufacture, and test sheet signed by the Manufacturer, giving the results of each of the specified mechanical tests and the chemical analysis of each cast in each delivery of Steel.

In the event of any material being found after delivery, with injurious defects or not true to the specified dimensions within the specified limits of tolerance, it shall be rejected and shall be replaced by and at the cost of the Contractor, c.i.f., Melbourne, or if of Victorian manufacture, in trucks at place of delivery.

5. Weights.

All weights will be ascertained by weighing the material on the weighbridge scales or other weighing machines of the Corporation at Newport, Victoria, and all such weights so ascertained by Comptroller of Stores shall for all purposes be accepted by the parties to this Contract as correct, final and binding.

6. Defects Showing During Fabrication.

Should any portion of the material show injurious defects during course of fabrication by the Corporation the Contractor will be notified and, provided it 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 material.

APPENDIX "W".

SPECIFICATION FOR
ROUND EDGE STEEL FLAT FOR DRAFT KEYS.

ITEM 2546.

1. 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 Australian Standard Specification No. A1-1931.

The Bars shall be commercially straight.

2. Inspection and Tests.

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

3. Weights.

All weights will be ascertained by weighing the material on the weighbridge scales or other weighing machines of the Corporation at Newport, Victoria, and all such weights so ascertained by the Comptroller of Stores shall, for all purposes, be accepted by the parties to this Contract as correct, final and binding.

4. Defects Showing During Fabrication.

Should any portion of the material show injurious defects during course of fabrication by the Corporation the Contractor will be notified, and provided it 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 material.

ROLLED STEEL—continued.

APPENDIX "X."

SPECIFICATION FOR

SILICON CHROME STEEL FOR VOLUTE SPRINGS.

ITEM 2534C.

1. **Quality of Material.**

The Steel Bars shall be manufactured from the highest quality steel made from selected material by an approved process.

2. **Chemical Analysis.**

The Steel Bars shall show on analysis :—

	Minimum.	Maximum.
Carbon ...	0·47%	0·56%
Manganese ...	0·55	0·70
Chrome ...	0·60	0·80
Silicon ...	1·20	1·60
Phosphorus } ...	—	0·05
Sulphur }		

All analyses shall be carried out in accordance with Australian Standard Specification No. K. 1-1926.

3. **Check Analysis.**

A check analysis may be made by the Corporation from a Bar representing each cast. The chemical composition thus determined shall conform to the requirements specified in Clause 2.

4. **Freedom from Defects.**

The Steel Bars shall be smooth on their surfaces and free from all defects of any kind. They shall be commercially straight and cut square on the ends.

5. **Limits of Tolerance.**

The Steel Bars shall be true to ordered dimensions within the following limits of tolerance :—

				Permissible Variation	
				Inches	
				Over	Under
Thickness—Up to $\frac{3}{8}$ " inclusive	...	...	...	0·015	0·005
" Over $\frac{3}{8}$ " to $\frac{1}{2}$ " inclusive	...	...	...	0·015	0·010
Width—1" to 2" inclusive	...	...	...	0·015	0·015
" Over 2" to 4" inclusive	...	...	...	0·025	0·025
" Over 4" to 6" inclusive	...	...	...	0·035	0·025

Length Plus 1", Minus Nil.

6. **Branding.**

Each Steel Bar shall be marked in a durable and legible manner with the Manufacturer's name or trade mark, cast number and a brand indicating that it is Silicon Chrome quality Spring Steel.

7. **Painting.**

Each Steel Bar shall be painted on each end, Purple with Red band.

8. **Inspection and Tests.**

The Contractor shall supply a certificate stating the process of manufacture, and a test sheet signed by the Manufacturer giving the chemical analysis of each cast in each delivery of Bars.

In the event of any Steel Bar being found, after delivery, with injurious defects, or not true to the specified dimensions within the specified limits of tolerance, it shall be rejected and shall be replaced by and at the cost of the Contractor, c.i.f., Melbourne, or if of Victorian manufacture, in trucks at place of delivery.

9. **Weight.**

All weights shall be ascertained by weighing the Steel Bars on the weighbridge scales or other weighing machines of the Corporation of Newport, Victoria, and all such weights so ascertained by the Comptroller of Stores shall for all purposes be accepted as correct, final and binding.

10. **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 Proper Chief Officer replace or make good the defective Steel Bar.

