

[3375]



VICTORIA  
GOVERNMENT GAZETTE.

Published by Authority.

[Registered at the General Post Office, Melbourne, for transmission by post as a newspaper.]

No. 105]

FRIDAY, SEPTEMBER 13.

[1929

No.	Number of Tenders.	Particulars of Contract.	Country of Manufacture or Production.	Amount.	Name of Contractor.
1306	..	Railway Stores Suspense Account, Act 2716, Section 105— Supply and delivery of Stores, as ordered from 1st July, 1929, to 30th June, 1930	As per annex ..	Rates as per annex	As per annex

Melbourne, 10th September, 1929.

(No. 1.)

Schedule of Rates Contracts

FOR THE

SUPPLY OF STORES

TO THE

VICTORIAN RAILWAYS,

Period 1.7.1929 to 30.6.1930.

E. C. EYERS,  
By order of The Victorian Railways Commissioners.

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION  
PUBLISHED WEEKLY  
CHICAGO, ILL., MAY 1, 1919  
Vol. 34, No. 19

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION  
PUBLISHED WEEKLY  
CHICAGO, ILL., MAY 1, 1919  
Vol. 34, No. 19

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION  
PUBLISHED WEEKLY  
CHICAGO, ILL., MAY 1, 1919  
Vol. 34, No. 19

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION  
PUBLISHED WEEKLY  
CHICAGO, ILL., MAY 1, 1919  
Vol. 34, No. 19

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION  
PUBLISHED WEEKLY  
CHICAGO, ILL., MAY 1, 1919  
Vol. 34, No. 19

## SUPPLY AND DELIVERY OF STORES.

As ordered, from 1st July, 1929, to 30th June, 1930.

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 Australia are to be wholly or partly manufactured in Australia.

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

## SCHEDULE No. 1.

## NAMES, ADDRESSES, ETC., OF CONTRACTORS.

In cases where no Deposit Security is shown, the amount involved is less than £20, and a contract has not been executed nor Deposit Security lodged.

In cases marked with a (\*) the value is over £20 and less than £100, and although the Deposit Security shown has been lodged, a contract has not been executed.

Name of Contractor.	Address.	Contract No.	Deposit Security.	Item Numbers.
			£	
*A. A. Phoenix Co. . . . .	493 Collins-street, Melbourne, C.I	43244	1	127-129, 137-140
Abbott Goodman & Co. . . . .	226 Little Collins-street, Melbourne, C.I.	43153	..	933
*Ajax Cordage Mfg. Co. Pty. Ltd.	489 Albion-street, Brunswick, N.12	43155	2	180, 181, 183-186
*Alcock & Pierce Pty. Ltd. . .	318 Little Collins-street, Melbourne, C.I	43139	1	498
Atlantic Union Oil Co. Ltd. . .	40 Queen-street, Melbourne, C.I	43157	9	2B
Australian Agency, The . . . .	449 Pitt-street, Sydney, N.S.W.	43156	12	205
Australian Gas Retort and Firebrick Mfg. Co.	Toorak-road, South Yarra S.E. 1	43158	6	317, 318, 326
Australian General Electric Co. Ltd.	Cr. Queen and Little Collins streets, Melbourne, C.I	43138	15	980, 987, 1011, 1014, 1015, 1034-1036, 1041-1043, 1057, 1058, 1096, 1097, 1219, 1221-1223, 1232, 1234, 1251, 1261, 1262, 1281-1283, 1352, 1353
Australian Paper Mfrs. Ltd.	Prince's-bridge, Melbourne S.C. 4	43152	145	869-874, 882, 883, 896, 900-906
Australian Porcelain Insulator Co. Pty. Ltd.	422 Little Collins-street, Melbourne, C.I	43154	..	1225
Baldwins & J.C.M. (Aust.) Pty. Ltd.	95 Queen-street, Melbourne, C.I	43162	63	479, 483, 484
*Barnet Glass Rubber Co. Ltd.	289 Swanston-street, Melbourne, C.I	43165	2	60, 61, 99, 101, 112, 115, 148
Bell, J. R. & Co. . . . .	218 Latrobe-street, Melbourne, C.I	43161	41	468, 474-476, 482, 698, 699, 730-745, 758-762
Bell's Asbestos Aust. Agency Ltd.	541 Bourke-street, Melbourne, C.I	43163	9	62, 63, 65, 121, 143, 144
*Bendigo Brick Co. . . . .	Miller-street, Bendigo	43168	4	487
Bevan, E. P. & Son, Pty. Ltd.	117 King-street, Melbourne, C.I	43170	..	438
Black, J. G. Pty. Ltd. . . . .	5 Somerset-place, Melbourne, C.I	43167	..	766
Braithwaite, W. Pty. Ltd. . . .	High-street, Preston, N.18	43169	..	290
Briginshaw, E. P. . . . .	97 Elizabeth-street, Melbourne, C.I	43166	..	805-808
Briscoe & Co. Ltd. . . . .	391 Little Collins-street, Melbourne, C.I	43159	33	362-367, 372, 387-401, 405A, 406A, 456, 458, 460, 469-473, 686-693, 704-706, 709-714
British General Electric Co. Ltd.	590 Bourke-street, Melbourne, C.I	43160	19	988, 991, 992, 994-999, 1029, 1030, 1032, 1033, 1037, 1059, 1060, 1077-1080, 1084-1086, 1089, 1093-1095, 1098, 1099, 1139, 1166, 1167, 1178, 1180, 1181, 1193, 1195, 1224, 1226, 1228, 1230, 1231, 1235, 1247, 1248, 1255
British Insulated Cables Ltd.	499 Little Collins-street, Melbourne, C.I	43164	635	1049-1058, 1066, 1069-1076, 1081-1083
Campbell, A. L. & Co. Pty. Ltd.	278 Queen-street, Melbourne, C.I	43176	..	1300
Carrigan, J. . . . .	395 Collins-street, Melbourne, C.I	43178	75	12-17, 25, 26
Chief Mechanical Engineer . .	Newport	43179	..	229-231

SCHEDULE NO. 1.—NAMES, ADDRESSES, ETC., OF CONTRACTORS—*continued*.

Name of Contractor.	Address.	Contract No.	Deposit Security.	Item Numbers.
*Clark, N. G. . . . .	100 King-street, Melbourne, C.1	43171	1	504, 506, 520, 527
*Coates & Co. Pty. Ltd. . .	99 Queen-street, Melbourne, C.1	43177	5	149, 1191
Collie, R. & Co. Pty. Ltd. . .	194 Little Lonsdale-street, Melbourne, C.1	43174	7	940, 943, 947, 948, 954, 955, 964, 967, 970
Cooke, S. Pty. Ltd. . . . .	225 Queen-street, Melbourne, C.1	43175	8	939, 942, 950-953, 956-960, 965
Cooper, E. H. Pty. Ltd. . . .	59 William-street, Melbourne, C.1	43173	5	894, 895, 897
Cranbourne Sand Pty. Ltd. . .	14 Queen-street, Melbourne, C.1	43172	6	162A, 163A, 167C
Dalgety & Co. Ltd. . . . .	461 Bourke-street, Melbourne, C.1	43182	84	212, 213, 218, 495, 496
Dane, Taylor & Co. Pty. Ltd.	501 Latrobe-street, Melbourne, C.1	43188	5	126, 130-136
Danks, John & Son Pty. Ltd.	391 Bourke-street, Melbourne, C.1	43185	43	348, 349, 350, 353, 381, 625, 635
Dean, W. & G. Pty. Ltd. . . .	Equitable-place, Melbourne, C.1	43180	5	36, 799, 800
Don, R. S. . . . .	10 Minnie-street, Brunswick, N.10	43190	10	1311
Dowie Bros . . . . .	Carisbrook . . . . .	43183	1	167D
*Downs & Son Pty. Ltd. . . .	Tinning-street, Brunswick, N.10	43189	2	182, 204
Drake, Henry . . . . .	Royal-crescent, Brunswick, N.12	43186	..	971-973
Duckett, E. & Sons . . . . .	374 Lonsdale-street, Melbourne, C.1	43181	61	405, 410, 412, 413, 462, 467, 643-649, 700-703, 707, 708, 720-725, 746-757, 767-776
Duff, Thos. & Bros. Pty. Ltd.	William and Dudley streets, West Melbourne, C.1	43184	10	1371
Dunlop Perdriau Rubber Co. Ltd.	108 Flinders-street, Melbourne, C.1	43187 43245	80 17	58, 59, 66-96, 100, 102-111, 116-118, 122-125, 141, 142, 146, 147, 150-154, 278, 279, 1146-1161, 1168-1170
Eagle & Globe Steel Co. Ltd.	342 Swanston-street, Melbourne, C.1	43197	13	434-437, 439, 442, 454
Edison Swan Electric Co. Ltd.	368 Little Collins-street, Melbourne, C.1	43192	17	979, 981, 984, 1000, 1001, 1003-1005, 1007-1010, 1019-1028, 1031, 1038, 1039, 1134-1136, 1138, 1220, 1253, 1284-1286, 1288, 1301
Edmondson, John & Co. Pty. Ltd.	92 Flinders-street, Melbourne, C.1	43194	37	214-216, 221
Edna Firebrick Co. Pty. Ltd.	443 Little Collins-street, Melbourne, C.1	43196	19	315A, 316A
Elder, Smith & Co. Ltd. . . .	95 William-street, Melbourne, C.1	43193	172	617, 617A, 619, 619A, 621, 621A, 623, 623A, 627-632
Engineering Products Pty. Ltd.	428 Burnley-street, Burnley, E.1	43191	15	172, 310, 311
Evans, Thos. Pty. Ltd. . . . .	371 Bourke-street, Melbourne, C.1	43195	8	225
Fahle & Whiting . . . . .	215 Esplanade West, Port Melbourne, S.C.7	43199	..	880
Falk, Stadelmann & Co. Ltd.	380 Lonsdale-street, Melbourne, C.1	43201	..	1131, 1302
*Felton, Grimwade & Co. Pty. Ltd.	342 Flinders-lane, Melbourne, C.1	43198	3	502, 505, 507, 509, 510, 513, 516, 517, 519, 521, 523, 524, 526, 528, 530, 531, 534-538, 557-559
Firdaw Engineering Supply Co. Pty. Ltd.	510 Latrobe-street, Melbourne, C.1	43203	..	351, 352
Foy & Gibson Pty. Ltd. . . .	Smith-street, Collingwood, N.5	43204	50	1374
Frank & Bryce Ltd. . . . .	109 Flinders-lane, Melbourne, C.1	43202	6	202
Fry, G. B. & Co. . . . .	113 Lonsdale-street, Melbourne, C.1	43200	..	923

SCHEDULE NO. 1.—NAMES, ADDRESSES, ETC., OF CONTRACTORS—*continued*.

Name of Contractor.	Address.	Contract No.	Deposit Security.	Item Numbers.
Gair Manufacturing Co. Pty. Ltd.	480 Elizabeth-street, Melbourne, C.1	43205	12	217, 232-235
Gardner, Waern & Co. Pty. Ltd.	481 Flinders-street, Melbourne, C.1	43207	12	269-276
Geelong R.S. & S. Woollen and Worsted Co-op. Manufacturing Co. Ltd.	Pakington-street, Chilwell, Geelong	43390	17	1374A
Green, C. S. & Sons	368 Post Office-place, Melbourne, C.1	43206	44	376, 408, 478, 481
*Harding and Halden Sensitizing Co. (Overseas) Ltd.	c/o Commercial Copying Co., 422 Collins-street, Melbourne, C.1	43213	3	1344
Hardware Co. of Aust. Pty. Ltd.	71 Queensbridge-street, South Melbourne, S.C.4	43208	8	357, 358, 369, 371, 422, 423, 425
*Hely Bros. Ltd.	48 Hudson-street, Hamilton, N.S.W.	43210	5	356, 378, 379
*Horton, H. C.	1 Khartoum-street, Caulfield, S.E.7	43209	2	817-820
*Hunter, W. H. & Co. Pty. Ltd.	543 Elizabeth-street, Melbourne, C.1	43211	3	294, 303-305
Johnson & Phillips Ltd.	400 Lonsdale-street, Melbourne, C.1	43213	..	1090, 1091
Joseph, J.	335 Flinders-lane, Melbourne, C.1	43214	..	1233, 1236
Justins, H. T.	63 Kent-street, Richmond, E.1	43215	..	447, 449, 453
Kendall, Knight & Co. Ltd.	114 King-street, Melbourne, C.1	43218	25	277
Kinnear, George & Sons Pty. Ltd.	cr. King and Little Collins streets, Melbourne, C.1	43217	173	173-179, 187-198
Kodak (A/sia) Pty. Ltd.	284 Collins-street, Melbourne, C.1	43216	23	501, 525, 532, 533, 539-554, 560-586, 589-609
*Lascellés, Parrington Ltd.	101 King-street, Melbourne, C.1	43220	1	1269, 1270
Lawrence & Hanson Electric Co. Ltd.	173 William-street, Melbourne, C.1	43221	..	1200, 1272
*Lendrum Ltd.	Equitable Building, Collins-street, Melbourne, C.1	43222	1	1352A, 1353A
Lodge, Gilbert & Co. Ltd.	188 King-street, Melbourne, C.1	43219	23	210, 211, 219, 220, 222, 223
Lycett Pty. Ltd.	Normanby-road, Montague, S.C.7	43223	10	28
McCulloch, R. W. & Co.	90 Queen-street, Melbourne, C.1	43233	7	162, 163, 167
*McIlroy & Plowman Pty. Ltd.	163 Sackville-street, Collingwood, N.5	43235	2	301
McMicking & Co.	362 Little Collins-street, Melbourne, C.1	43232	21	494, 497
McNish, J.	Pyalong	43234	10	164
McPherson's Pty. Ltd.	582 Collins-street, Melbourne, C.1	43231	35	119, 120, 361, 368, 375, 377, 418, 426-429, 443, 633, 634, 636-638, 650-658, 662, 675, 1367
Melbourne Steamship Co. Ltd.	27 King-street, Melbourne, C.1	43230	60	347, 347A
Metropolitan Switchgear Pty. Ltd.	369 Post Office-place, Melbourne, C.1	43225	5	1142, 1188-1190, 1271
*Mica and Insulating Supplies Co.	562 Bourke-street, Melbourne, C.1	43224	4	1179, 1250
Michaelis, Hallenstein & Co. Pty. Ltd.	441 Lonsdale-street, Melbourne, C.1	43229	20	284-288, 291, 292, 295-297
Miller, James & Co. Pty. Ltd.	357 Little Collins-street, Melbourne, C.1	43227	12	199-201, 203
Mitchell, T. & Co. Pty. Ltd.	360 Lonsdale-street, Melbourne, C.1	43228	..	729

SCHEDULE No. 1.—NAMES, ADDRESSES, ETC., OF CONTRACTORS—*continued*.

Name of Contractor.	Address.	Contract No.	Deposit Security.	Item Numbers.
Morton, E. L. Pty. Ltd.	415 Little Bourke-street, Melbourne, C.1	43226	£ 5	809-812, 815, 816
*Neptune Oil Co. Ltd.	River-street, Richmond, E.1	43237	4	29, 32A, 44, 45
Noyes Bros. (Melb.) Pty. Ltd.	495 Bourke-street, Melbourne, C.1	43236	24	982, 983, 985, 986, 989, 990, 993, 1002, 1006, 1012, 1013, 1016-1018, 1040, 1100-1105, 1107-1119, 1194, 1196-1199, 1201, 1227, 1229, 1237, 1256-1259, 1267, 1268, 1274-1276, 1278, 1279, 1287, 1289-1293
O'Brien, O. H.	664 Bourke-street, Melbourne, C.1	43238	6	1173-1177, 1182-1187, 1238-1246, 1260
Ordish Firebrick Co. Pty. Ltd.	Box 16, Dandenong	43239	70	312-316, 319-325
Parker, A. P.	Lal Lal	43242	10	162B, 163B
Paul & Gray Ltd.	529 Flinders-street, Melbourne, C.1	43243	8	224
Permewan Wright Ltd.	185 William-street, Melbourne, C.1	43240	7	167B
*Perry, John Pty. Ltd.	97 Market-street, South Melbourne, S.C.5	43246	5	370
Pitt, Joshua Pty. Ltd.	Gadd-street, Northcote, N.16	43247	18	262-268
Pizzey, George & Son Ltd.	131 Johnston-street, Fitzroy, N.6	43248	33	281, 283, 289, 293, 298-300
Ramsay & Hall Pty. Ltd.	383 Johnston-street, Abbotsford, N.9	43251	9	922, 924, 925, 928A
Ramsay & Treganowan Ltd.	475 Latrobe-street, Melbourne, C.1	43254	15	1A, 31
Redmond, Inglis & Co. Pty. Ltd.	Therry-street, Melbourne, C.1	43250	10	844, 853-855, 862
Remington's Pty. Ltd.	330 Little Collins-street, Melbourne, C.1	43253	6	1294, 1295
Robertson, S. Pty. Ltd.	23 Niagara-lane, Melbourne, C.1	43255	..	450-452
Rowe, H. & Co. Pty. Ltd.	Flinders Court off 15 Elizabeth-street, Melbourne, C.1	43252	8	1141, 1218, 1252, 1263-1266
Russell, George Ltd.	454 Flinders-street, Melbourne, C.1	43249	21	240-259
Sands & McDougall Pty. Ltd.	365 Collins-street, Melbourne, C.1	43258	26	813, 814, 831-843, 851, 852, 858-860, 863, 881, 907-911, 920
Selby, H. B. & Co.	393 Swanston-street, Melbourne, C.1	43257	..	503, 508, 511, 512, 515, 522, 529
Selkirk, J.	Howitt-street, Ballarat	43264	41	488, 489
Sewell, G. F. Pty. Ltd.	64 Cross-street, West Footscray, W.12	43256	6	659-661
Shell Co. of Aust. Ltd.	153 William-street, Melbourne, C.1	43266	53	2A, 3A, 4A, 30, 34
*Siemens (Aust.) Pty. Ltd.	20 Queen-street, Melbourne, C.1	43261	5	1120, 1162-1165, 1192, 1206, 1207, 1280
Sleigh, H. C.	582 Little Collins-street, Melbourne, C.1	43267	12	21, 24, 32, 35
*Sleightholm, W. G.	Kirks-lane, Melbourne, C.1	43263	3	1137, 1249, 1296-1298
Socony Pty. Ltd.	462 Collins-street, Melbourne, C.1	43265	97	6, 6A, 22, 42, 43
Spicers & Detmold Ltd.	377 Lonsdale-street, Melbourne, C.1	43259	13	845-850, 856, 857, 861, 864, 865, 875-879, 926, 930-932
Stewarts & Lloyds (Aust.) Ltd.	Grant-street, South Melbourne, S.C.4	42736	155	618, 620, 622, 624, 1313-1336
Stott & Hoare Pty. Ltd.	91 William-street, Melbourne, C.1	43260	23	921, 927, 928, 929, 934
*Sunshine Porcelain Potteries Pty. Ltd.	314 Collins-street, Melbourne, C.1	43262	2	1277

SCHEDULE NO. 1.—NAMES, ADDRESSES, ETC., OF CONTRACTORS—*continued*.

Name of Contractor.	Address.	Contract No.	Deposit Security.	Item Numbers.
Tame, A. E. & F.	Alexandra-parade, Clifton Hill, N.8	43268	£ 12	676-679, 695-697, 715-718
*Texas Co. (Aust.) Ltd.	343 Little Collins-street, Melbourne, C.1	43272	5	20, 23, 33
Titan Manufacturing Co. Pty. Ltd.	224 Normanby-road, South Melbourne, S.C.5	43270	22	416, 417, 419, 420, 430
*Titan Nail & Wire Pty. Ltd.	224 Normanby-road, South Melbourne, S.C.5	43269	1	726-728
Tulloch's Phoenix Iron Works Ltd.	Rhodes-street, Sydney, N.S.W.	43271	6	424A
Vacuum Oil Co. Pty. Ltd.	90 William-street, Melbourne, C.1	43273	264	1-5, 5A, 11, 18, 19, 27, 27A, 41, 52-52c
Vial, Frank & Sons Pty. Ltd.	369 Queen-street, Melbourne, C.1	43274	7	407
Wakefield, C. C. & Co. Ltd.	485 Bourke-street, Melbourne, C.1	43279	26	14A-17A
Walker, James	378 Little Collins-street, Melbourne, C.1	43280	9	97-98, 380, 406, 409, 411, 421, 719, 763-765
Wallace, A. J.	382 Lonsdale-street, Melbourne, C.1	43287	8	917, 918
Waller, George	112 Talbot-street, Ballarat	43276	2	167A
Warburton, Franki (Melb.) Ltd.	382 Bourke-street, Melbourne, C.1	43283	..	1254
Wells, Frank Pty. Ltd.	562 Bourke-street, Melbourne, C.1	43284	..	446
*White, H. O. & Co.	515 Collins-street, Melbourne, C.1	43281	1	448, 455
Widdis Diamond Dry Cells Pty. Ltd.	119 Hawke-street, West Melbourne, C.3	43285	10	1132, 1133
Wiggins, Teape & Alex. Pirie (Export) Ltd.	206 Queen-street, Melbourne, C.1	43278	20	888-893, 898, 899, 1345, 1346
Wildridge, J. & Sinclair Ltd.	590 Elizabeth-street, Melbourne, C.1	43289	6	424
Wimble, F. T. & Co. Ltd.	459 Little Bourke-street, Melbourne, C.1	43282	12	941, 944-946, 949, 961-963, 966, 968
Withers, J. & Son Pty. Ltd.	214 Queen-street, Melbourne, C.1	43286	..	824, 825
Woolcott & Mackie Pty. Ltd.	408 Latrobe-street, Melbourne, C.1	43277	5	884-887
Workshops Manager	Spotswood	43288	..	359, 360
Wurcker, Max. Ltd.	376 Flinders-street, Melbourne, C.1	43275	15	783-798, 801, 1341-1343, 1347-1351
Yencken, E. L. & Co. Pty. Ltd.	384 Little Collins-street, Melbourne, C.1	43290	21	51, 53, 53A



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

## MINERAL LUBRICATING OILS.

(See Appendix "A" for Specification.)

(1.7.1929 to 30.6.1930.)

The different classes of oil required shall be supplied in barrels or drums branded "Super. Cyl. Oil," "Sat. Cyl. Oil," "Sum. Bear," "Win. Bear," "C. & W.," "Car," as the case may be.

**Payment.**—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.

As regards Items Nos. 1 to 4A, orders should as far as possible be divided as under:—

Item No. 1 .. .. .	85%	Item No. 3 .. .. .	80% (less 4,000 gallons)
" 1A .. .. .	15%	" 3A .. .. .	20%
" 2 .. .. .	60%	" 4 .. .. .	80%
" 2A .. .. .	30%	" 4A .. .. .	20%
" 2B .. .. .	10%		

provided/satisfactory service is rendered. Quantities have been amended accordingly.

†1	Locomotive Cylinder Oil, Specification L1, Superheater Steam, "Gargoyle Valve," delivered in drums with bilge bungs	U.S.A. and Vict.	13,600 gals.	gallon	0 3 4	Vacuum Oil Co. Pty. Ltd.
†1A	Locomotive Cylinder Oil, Specification L1, "X.L. Superheater Cylinder Oil C," delivered in barrels	"	2,400 "	do.	0 3 2	Ramsay & Treganowan Ltd.
†2	Locomotive Cylinder Oil, Specification L1, Saturated Steam, "C.794," delivered in drums with bilge bungs	"	12,600 "	do.	0 2 8½	Vacuum Oil Co. Pty. Ltd.
†2A	Locomotive Cylinder Oil, Specification L1, "Shell Saturated Steam Cylinder Compounded Oil," delivered in barrels	"	6,300 "	do.	0 2 8	Shell Co. of Australia Ltd.
†2B	Locomotive Cylinder Oil, Specification L1, "A.U. Loco. Saturated Cylinder Oil," delivered in wooden barrels or drums	"	2,100 "	do.	0 2 1½	Atlantic Union Oil Co. Ltd.
†3	Locomotive Bearing Oil—Specification L2—Summer, "Loco. H.," in drums	U.S.A. & Vict.	23,200 "	do.	0 2 4½	Vacuum Oil Co. Pty. Ltd.
†3A	Summer, "Shell", in drums	Vict.	6,800 "	do.	0 1 11½	Shell Co. of Aust. Ltd.
†4	Winter, "Loco. J.," in drums	U.S.A. and Vict.	21,600 "	do.	0 2 0	Vacuum Oil Co. Pty. Ltd.
†4A	Winter, "Shell", in drums	Vict.	5,400 "	do.	0 1 11	Shell Co. of Aust. Ltd.
†5	Car and Wagon Axle Oil (Black Oil), Specification L3, "B.817," ex stock, in drums	U.S.A.	22,000 "	do.	0 1 3½	Vacuum Oil Co. Pty. Ltd.
†5A	Car and Wagon Axle Oil (Black Oil), Specification L3, "B.817," ex wharf, in drums	"		do.	0 1 2½	
†6	Car Oil (Red Oil), Specification L3A, "L9," ex stock, in drums	"	50,000 "	do.	0 1 4½	Socony Pty. Ltd.
†6A	Car Oil (Red Oil), Specification L3A, "L9," ex wharf, in drums	"		do.	0 1 4	
7-10	Nil					

## OILS (VARIOUS).

(See Appendix "B" for Specification.)

(1.7.1929 to 30.6.1930.)

Payment for Oils 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.

Lycett Pty. Ltd. will credit the Department 2s. per drum for any returned to it at the Metropolitan Receiving Depot at Spencer-street in good order and condition.

As regards Items 14-17, provided satisfactory service is rendered, the business should be equally divided.

MOTOR, ENGINE AND MACHINERY OILS.						
†11	Specification L.4; Grade—Extra Light—Oil, for Refrigerating Machines, in 4-gallon tins, "Gargoyle Arctic C."	U.S.A.	20 gals.	gallon	0 3 8	Vacuum Oil Co. Pty. Ltd.
†12	Specification L.4; Grade — Light — Oil, Cylinder, for Ford Cars, in 4-gallon tins, "Valvoline"	"		do.	0 6 6	
†13	Specification L.4; Grade — Light — Oil, Cylinder, for Ford Cars, in 40-gallon drums, "Valvoline"	"	900 "	do.	0 6 0	J. Carrigan

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate— £ s. d.	Name of Contractor.
OILS (VARIOUS)—continued.						
†14	Specification L.4; Grade—Medium—Oil, Cylinder, for Chevrolet Cars and Water-cooled Petrol Engines, in 4-gallon tins, "Valvoline"	U.S.A.	3,500 gall.	gallon	0 7 0	J. Carrigan
†14A	Specification L.4; Grade—Medium—Oil, Cylinder, for Chevrolet Cars and Water-cooled Petrol Engines in 4-gallon tins, "Castrol C.W."	"		do.	0 4 0	C. C. Wakefield and Co. Ltd.
†15	Specification L.4; Grade—Medium—Oil, Cylinder, for Chevrolet Cars and Water-cooled Petrol Engines, in 40-gallon drums, "Valvoline"	"		do.	0 6 6	J. Carrigan
†15A	Specification L.4; Grade—Medium—Oil, Cylinder, for Chevrolet Cars and Water-cooled Petrol Engines in 40-gallon drums, "Castrol C.W."	"		do.	0 3 9	C. C. Wakefield and Co. Ltd.
†16	Specification L.4; Grade—Heavy—Oil, Cylinder, for Motor Lorries, Cycles, Air-cooled Petrol Engines and Rail Motors, in 4-gallon tins, "Valvoline"	"	6,000 gall.	do.	0 7 6	J. Carrigan
†16A	Specification L.4; Grade—Heavy—Oil, Cylinder, for Motor Lorries, Cycles, Air-cooled Petrol Engines and Rail Motors, in 4-gallon tins, "Castrol G.P."	"		do.	0 4 9	C. C. Wakefield and Co. Ltd.
†17	Specification L.4; Grade—Heavy—Oil, Cylinder, for Motor Lorries, Cycles, Air-cooled Petrol Engines and Rail Motors, in 40-gallon drums, "Valvoline"	"		do.	0 7 0	J. Carrigan
†17A	Specification L.4; Grade—Heavy—Oil, Cylinder, for Motor Lorries, Cycles, Air-cooled Petrol Engines, and Rail Motors, in 40-gallon drums, "Castrol G.P."	"		do.	0 4 6	C. C. Wakefield and Co. Ltd.
†18	Specification L.4A; Grade—Medium—Oil, Cylinder, for Kerosene Engines, in 4-gallon tins, "Gargoyle Vactra Extra Heavy X."	U.S.A. and Vict.	150 "	do.	0 3 0	Vacuum Oil Co. Pty Ltd.
†19	Specification L.5; Grade—Extra Light—Oil, Bearing for Small Electric Motors, Light Line Shafting, Pumps, Small Machines, Spindles and Automatic Signal Mechanism, in 4-gallon tins, "Gargoyle Vacuoline C."	U.S.A.	10 "	do.	0 2 10	
†20	Specification L.5; Grade—Light—Oil, Bearing, for Signal Apparatus, Medium Line Shafting, Light Ball Bearings and Races, in 40-gallon barrels or drums, "Alcaid"	"	400 "	do.	0 3 0	Texas Co. (Aust.) Ltd.
†21	Specification L.5; Grade—Medium—Oil, Bearing, for Small Machine Tools, Large Electric Motors and Dynamos, Heavy Ball Bearings and Races, Tricycles, in 40-gallon barrels or drums, "Papco Summit"	"	2,300 "	do.	0 1 6	H. C. Sleight
†22	Specification L.5; Grade—Heavy—Oil, Bearing, for Large Machine Tools, in 40-gallon barrels or drums, "7.O.R."	U.S.A.	2,300 gall.	do.	0 1 11	Socony Pty. Ltd.
†23	Specification L.5; Grade—Extra Heavy—Oil, Bearing, for Stone Crushers, Tractors, and similar Machinery, in 40-gallon barrels or drums, "Texaco Summer Black Oil"	"	50 "	do.	0 1 4	Texas Co. (Aust.) Ltd.
†24	Specification L.5; Grade—Extra Heavy Special—Oil, Bearing, for Rail Motor Transmission Gear, in 40-gallon barrels or drums, "Summit"	U.S.A. and Vict.	1,400 "	do.	0 2 1	H. C. Sleight
†25	Specification L.6; Grade—Medium—Oil, for Turbines, Air Compressors, and Machinery on which the circulating system of lubrication is employed, in 4-gallon tins, "Valvoline"	U.S.A.	3,400 "	do.	0 6 3	J. Carrigan
†26	Specification L.6; Grade—Medium—Oil, for Turbines, Air Compressors, and Machinery on which the circulating system of lubrication is employed, in 40-gallon drums, "Valvoline"	"		do.	0 5 9	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<b>OILS (VARIOUS)—continued.</b>						
†27	Specification L.7; Grade—Light—Oil, for Transformers and Switch Gear, in cases of two tins, "Gargoyle Transformer A"	U.S.A.	200 gall.	gallon	*0 2 10	Vacuum Oil Co. Pty. Ltd.
†27A	Specification L.7; Grade—Light—Oil, for Transformers and Switch Gear, in 45-gallon drums, "Gargoyle Transformer A"	"		do.	*0 2 7	
†28	Specification L.8; Castor Oil, in 5-gallon drums, "Alba"	Vict.	800 "	do.	0 6 0	Lycett Pty. Ltd.
†29	Neatsfoot Oil, Pure, in 40-gallon barrels or drums	"	80 "	do.	0 4 9	Neptune Oil Co. Ltd.
†30	Neatsfoot Oil, Compound, in 40-gallon drums, "Shell L.2"	"	800 "	do.	0 1 9½	Shell Co. of Aust. Ltd.
†31	Soluble Cutting Compound, in 40-gallon drums, X.L. Sapon Cutting Oil, No. 2	"	1,500 "	do.	0 2 10	Ramsay and Treganowan Ltd.
†32	Fish Oil (Mineral Oil) dilutant, for tempering springs, in 40-gallon barrels or drums, "Papco Summit"	U.S.A.	400 "	do.	0 1 10	H. C. Sleigh
†32A	Fish Oil, for tempering springs, in 40-gallon barrels or drums	Japan		do.	0 3 6	Neptune Oil Co. Ltd.
†33	Compound, Lubricating, "Texaco Grease No. 3", for use at the State Mine, in barrels or drums	U.S.A.	20 cwt.	cwt.	1 7 0	Texas Co. (Aust.) Ltd.
†34	Compound, "Crater," Lubricating, for use at the State Mine, "Shell Atlas Gear Compound," in barrels	"	3 "	lb.	0 0 3½	Shell Co. of Aust. Ltd.
†35	Oil, Lardine, in 4-gallon tins, "Summit"	U.S.A. and Vict.	80 galls.	gal.	0 2 3	H. C. Sleigh
†36	Oil, Lard, in 4-gallon tins	U.S.A.	100 "	do.	0 13 0	W. and G. Dean Pty. Ltd.
37 to 40	Nil.					

\* Less 10 per cent.

**GREASES.**

See Appendix "C" for Specification.

(1.7.1929 to 30.6.1930.)

As regards Items Nos. 42 and 43, three months are to be allowed for Contractor to obtain stocks to meet initial orders.

	Grease, for Gears, Conveyors, Compression Cups—					
†41	Specification M.1, "Voco Dark Gear Grease," in barrels .. .. .	Vict.	100 cwt.	cwt.	1 0 6	Vacuum Oil Co. Pty. Ltd.
†42	Grease, Cup, No. 3, Specification M.2, in 5-lb. tins, "S.O. 31" .. .. .	U.S.A.	40 "	"	2 3 0	} Socony Pty. Ltd.
†43	Grease, Pantograph Collector, No. 4, Speci- fication M.2, in barrels .. .. .	"	100 "	"	1 13 0	
†44	Grease, Antifriction, for Lubrication of Rough Machinery, Rails, Switches, Curves, and other purposes. Specification M.3 "Neptune" .. .. .	Vict.	30 "	"	0 16 0	} Neptune Oil Co. Ltd.
†45	Petroleum Jelly, in cases or barrels of approximately 5 cwt., for tarpaulin dress- ing, to Specification, "Neptune" .. .. .	U.S.A.	700 lb.	lb.	0 0 1½	
46-50	Nil					

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

## TURPENTINE, TURPENTINE SUBSTITUTES, AND METHYLATED SPIRITS.

See Appendix "D" for Specifications.

(1.7.1929 to 30.6.1930.)

Payments 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. 53A, a charge of 7s. 6d. each will be made for delivery in Company's 45-gallon cylinders, and will be credited to the Department on return.

## Name of Manufacturer—

Items Nos. 52 to 52c.—Standard Oil Co. of California, U.S.A. "Petropine."

Items Nos. 53 and 53A.—Bundaberg Distillery—Queensland.

Turpentine—						
†51	To Specification A.5, "Pratts" in 4-gallon unbranded tins	U.S.A.	3,000 gals.	gallon	0 3 10½	E. L. Yencken & Co. Pty. Ltd.
†52	Substitute, volatile mineral spirit, paint thinners, Specification A.6, "Petropine," in cases containing 2 x 4 gallon tins	"		case	*0 17 0	
†52A	Substitute, volatile mineral spirit, paint thinners, Specification A.6, "Petropine," in naked 4-gallon tins	"		tin	*0 8 2	
†52B	Substitute, volatile mineral spirit, paint thinners, Specification A.6, "Petropine," in bulk in departmental owned drums	"	1,500 "	gallon	*0 1 10½	Vacuum Oil Co. Pty. Ltd.
†52c	Substitute, volatile mineral spirit, paint thinners, Specification A.6, "Petropine," in bulk in company owned drums	"		"	*0 1 11½	
†53	Spirits, Methylated, in 4-gallon tins	Q'land.	2,000 gals.	"	0 2 10½	E. L. Yencken & Co. Pty. Ltd.
†53A	Spirits, Methylated, in 45-gallon cylinders	"		"	0 2 6½	

\* Less 5 per cent. discount 30 days.

## INDIA-RUBBER GOODS, PACKING, ETC.

(1.7.1929 to 30.6.1930.)

## SPECIFICATION—RUBBER HOSE.—ITEMS 67 TO 84.

All hose must be made of rubber and cotton fabric, each of the best of its kind, made for the purpose; no rubber substitutes or short fibre cotton to be used.

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

All hose delivered under the following items shall meet the requirements specified hereunder :—

Item No.	Inside Diameter.	Outside Diameter.	Length.	Ply.	Bursting Pressure.
					lbs.
67	¾ in.	7 7/8 in.	60 feet	5	800
69	1 in.	8 in.	As ordered	3	400
70	1 ¼ in.	1 1/8 in.	"	3	300
71	1 in.	1 3/8 in.	"	3	300
72	1 ½ in.	2 in.	"	3	500
74	2 in.	2 ½ in.	"	4	756
75	2 in.	2 ½ in.	"	4	375
76	2 ½ in.	3 in.	"	4	300
77	2 in.	2 ½ in.	"	4	375
79	2 in.	2 ½ in.	40 feet	4	375
80	1 in.	1 3/8 in.	As ordered	5	1,238

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

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

## SPECIFICATION—I.R. SHEET.—ITEMS 90 TO 96.

*Material.*—All matting must be made of rubber and canvas, each of the best of its kind made for the purpose; no rubber substitutes to be used.

The matting must 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.

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

## SPECIFICATION—I.R. TYRES.—ITEMS 104 TO 109.

As regards Items Nos. 104 to 109, the Tyres shall be of the very best quality, solid grey india-rubber, 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.

57	Balls, I.R., 3" diameter ..		5			Nil	
†58	Boots, Thigh, sizes 8, 9, or 10, as ordered ..	Vict.	100 pairs	pair	1 4 0	Dunlop Perdriau Rubber Co. Ltd.	
*59	Buffers, Tangye Pump, 5½" x 1" diameter x 1" hole ..	"	12	each	0 1 2		
†60	Bumpers, ½" ..	"	6 doz.	dozen	0 1 10	Barnet Glass Rubber Co. Ltd.	
†61	" M.M.B.W. ..	"	70	"	0 0 7		
*62	Gaskets, for 3" "B. & W." Headers, oval, Graphited ..	U.K.	20,000	100	0 7 0	Bell's Asbestos Aust. Agency Ltd.	
*63	" for 4" "B. & W." header joints, oval, Graphited ..	"	3,000	100	0 9 0		
*64	" manhole, inside 14" x 11", outside 16½" x 13½" ..	"	6	each	..	Nil	
*65	" square, for superheaters, Babcock and Wilcox boilers, Bellite, Graphited ..	U.K.	300	100	0 8 0	Bell's Asbestos Aust. Agency Ltd.	
†66	Gloves, sizes 6, 7, 8, 9, or 10, as ordered ..	Vict.	400 pairs	pair	0 5 1	Dunlop Perdriau Rubber Co. Ltd.	
Hose, India-rubber, vulcanized—							
†67	5-ply, ¾" diameter, in 60' lengths, for steam or air, as ordered ..	"	40 lengths	length	1 19 0		
†68	3-ply, ¾" diameter, Armoured ..	"	1,000 feet	foot	0 0 7½		
†69	" ¾" diameter, ordinary quality ..	"	1,500	"	0 0 5		
†70	" ¾" " " " ..	"	4,000	"	0 0 6		
†71	" 1" " " " ..	"	1,000	"	0 0 8		
†72	" 1½" " " " ..	"	60	"	0 1 3		
†73	4-ply, ¾" diameter, chemical ..	"	3,000	"	0 0 5½		
†74	" ¾" diameter, special quality ..	"	1,300	"	0 0 9		
†75	" 2" diameter ..	N.S.W.	400	"	0 1 11		
†76	" 2½" " " ..	Vict.	2,100	"	0 2 2		
†77	" 2" diameter, Armoured outside ..	N.S.W.	3,500	"	0 2 3		
†78	" 2" diameter, Armoured inside, smooth bore ..	Vict.	700	"	0 2 6½		
†79	" 2", special-quality, in 40' lengths ..	N.S.W.	4 lengths	length	4 0 0		
†80	5-ply, ¾" diameter ..	Vict.	5,000 feet	foot	0 0 11½		
†81	" ¾" " " " ..	"	300	"	0 1 2		
†82	" 1½" diameter, for steam ..	N.S.W.	100	"	0 1 9		
†83	6-ply, ¾" diameter, Armoured outside ..	Vict.	2,000	"	0 0 11½		
†84	" ¾" " " " ..	"	1,200	"	0 0 9½		
India-rubber, Sheet, Vulcanized—							
†85	With canvas insertion, any sizes and thicknesses ordered ..	"	4,000 lb.	lb.	0 0 11½	Dunlop Perdriau Rubber Co. Ltd.	
†86	With fibrous insertion, any sizes and thicknesses ordered ..	"		"	0 0 10½		
India-rubber, Sheet, Brown—							
†87	¾" ..	N.S.W.	2,000 lb.	"	0 2 1	Dunlop Perdriau Rubber Co. Ltd.	
†88	¾" ..	"		"	0 2 1		
†89	1" ..	"		"	0 2 1		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate. ..	Name of Contractor.	
					£ s. d.		
INDIA-RUBBER GOODS, PACKING, ETC.—continued.							
	India-rubber, Sheet, Brown, backed — $\frac{1}{8}$ " thick—						
†90	22½" wide	Vict.	150 lin. yds.	lin. yd.	0 6 3	Dunlop Perdreau Rubber Co. Ltd.	
†91	26½" wide	"	300 "	"	0 7 3		
†92	27½" wide	"	120 "	"	0 7 8		
†93	30" wide	"	100 "	"	0 8 4		
†94	36" wide	"	100 "	"	0 10 0		
†95	48" wide	"	40 "	"	0 13 4		
†96	72" wide	"	150 "	"	1 0 0		
	Mallets, I.R., hard grade, handled—						
†97	3½" diameter x 5½" long, "Miller Rubber Co."	U.S.A.	8	each	0 11 5	James Walker	
†98	2½" diameter x 4½" long, "Miller Rubber Co."	"	2	"	0 6 1		
†99	Rollers, Feed, for Edison Mimeograph	Vict.	300	"	0 0 4	Barnet Glass Rubber Co. Ltd.	
†100	Solution, I.R., in kerosene tins	"	750 lb.	lb.	0 0 7½	Dunlop Perdreau Rubber Co. Ltd.	
†101	Tips, Finger, pinnacle type	"	600 doz.	dozen	0 0 6½	Barnet Glass Rubber Co. Ltd.	
†102	Tubing, $\frac{3}{8}$ " diameter	"	70 feet	foot	0 0 1½	Dunlop Perdreau Rubber Co. Ltd.	
†103	" $\frac{1}{2}$ " diameter	"	70 "	"	0 0 2½		
	Tyres, solid rubber, to be moulded on wheels, for industrial trucks—						
104	6½" diameter x 6½"	"	4	each	2 16 0		
105	6½" diameter x 5"	"	4	"	1 19 2		
106	11½" diameter x 4½"	"	12	"	2 6 2		
107	16" diameter x 4"	"	24	"	3 0 2	Dunlop Perdreau Rubber Co. Ltd.	
108	17½" diameter x 3½"	"	6	"	3 5 1		
109	17½" diameter x 5"	"	4	"	3 11 4		
	Washers, I.R.—						
*110	Cushion, 4½" x 2" x 2-7/16" hole	"	10	each	0 2 8	Barnet Glass Rubber Co. Ltd.	
†111	Gauge Glass, flat or round, as ordered, any sizes ordered	"	12 doz.	dozen	0 0 7½		
†112	Gauge Glass, hexagonal, for "B. & W." Boilers, 210-lb. pressure	"	48 "	"	0 1 6	Barnet Glass Rubber Co. Ltd.	
†113	With Insertion, any sizes ordered, not exceeding 6"	"	120 "	"		Nil	
†114	With Insertion, any sizes ordered, over 6"	"	12 "	"	0 1 4	Barnet Glass Rubber Co. Ltd.	
†115	Royle's Union	Vict.	12 "	"			
*116	Westinghouse Brake Hose $\frac{1}{2}$ "	"	1,500 "	"	0 1 2	Dunlop Perdreau Rubber Co. Ltd.	
*117	" " 1½"	"		"	0 1 3½		
*118	" " 1¼"	"		"	0 1 4½		
PACKING, ETC.							
	Packing, Asbestos—						
†119	$\frac{3}{8}$ " to 1", Plaited, "Turner Bros."	U.K.	600 lb.	lb.	0 1 8	McPherson's Pty. Ltd.	
†120	Cord or Yarn, "Turner Bros."	"	500 "	"	0 1 4½		
†121	Millboard, any thicknesses ordered	"	4,000 "	"	0 0 3	Bell's Asbestos Aust. Agency Ltd.	
	Packing, "Sunlight"						
†122	1/32"	Vict.	300 lb.	lb.	0 1 1	Dunlop Perdreau Rubber Co. Ltd.	
†123	1/16"	"		"	"		0 1 1
†124	$\frac{1}{8}$ "	"		"	"		0 1 1
†125	3/16"	"		"	"		0 1 1
†126	Packing, Patent, up to $\frac{1}{8}$ " thick, as ordered, Turner Bros. "Viking"	U.K.	2,000 "	"	0 1 1	Dane, Taylor & Co. Pty. Ltd.	
	Packing, Greasy Hemp, Round, "Eagle"—						
†127	$\frac{3}{4}$ "	Vict.	15 "	"	0 2 0	A. A. Phoenix Co.	
†128	1"	"	50 "	"	0 2 0		
†129	1½"	"	25 "	"	0 2 0		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
INDIA-RUBBER GOODS, PACKING, ETC.—continued.						
†130	Packing, Greasy Hemp, Square—"Viking"—	U.K.	28 lb.	lb.	0 0 8½	Dane, Taylor & Co. Pty. Ltd.
†131	" " " " " " " " " " " "	"	72 "	"	0 0 8½	
†132	" " " " " " " " " " " "	"	80 "	"	0 0 8½	
†133	" " " " " " " " " " " "	"	60 "	"	0 0 8½	
†134	" " " " " " " " " " " "	"	20 "	"	0 0 8½	
†135	" " " " " " " " " " " "	"	220 "	"	0 0 8½	
†136	" " " " " " " " " " " "	"	40 "	"	0 0 8½	
†137	Packing, Round, "Snowflake"—	Vict.	28 "	"	0 3 0	A. A. Phoenix Co.
†138	" " " " " " " " " " " "	"	28 "	"	0 3 0	
†139	" " " " " " " " " " " "	"	28 "	"	0 3 0	
†140	" " " " " " " " " " " "	"	28 "	"	0 3 0	
†141	Packing, Square, ½" and up to less than ¾", as ordered	"	50 cwt.	cwt.	10 10 0	Dunlop Perdreau Rubber Co. Ltd.
†142	Packing, Square, ¾" and over, as ordered	"	"	"	10 10 0	
†143	Asbestos Compound	N.S.W.	6 "	"	0 16 0	Bell's Asbestos Aust. Agency Ltd.
144	Asbestos Graphite, Compounded, suitable for Superheat Temperature, Piston and Valve Spindle Stuffing Boxes ½" diameter "Special Victor," "Loco. Packing"	U.K.	700 lb.	lb.	0 4 6	Bell's Asbestos Aust. Agency Ltd.
145	Or moulded as per blue print No. 5276...	"	"	"	Nil	
BELTING.						
†146	Belting, 3" wide x 4-ply, canvas duck, treated with rubber composition, unstitched, for driving train-lighting dynamos	Vict.	3,200 feet	foot	0 0 8½	Dunlop Perdreau Rubber Co. Ltd.
EBONITE ACCUMULATOR ACCESSORIES.						
*147	Ebonite Fork Separators	"	400 doz.	dozen	0 3 8	Barnet Glass Rubber Co. Ltd.
*148	" Cell-testing Tubes	"	120 "	"	0 2 7½	
*149	Accumulator Floats, "J. Stone & Co."	U.K.	70 "	"	0 7 6	Coates & Co. Pty. Ltd.
EBONITE SIDE SHEETS.						
*150	11-pt., 11½" x 5½" x 19 B.W.G.	Vict.	500 "	"	0 5 8	Dunlop Perdreau Rubber Co. Ltd.
*151	15-pt., 11½" x 7½" x 19 B.W.G.	"	12 "	"	0 7 4	
*152	21-pt., 11½" x 11" x 19 B.W.G.	"	4 "	"	0 9 8	
EBONITE BOTTOM SHEETS.						
*153	11-pt., 5½" x 5½" x 19 B.W.G.	"	12 "	"	0 3 0	Dunlop Perdreau Rubber Co. Ltd.
*154	15-pt., 7½" x 5½" x 19 B.W.G.	"	12 "	"	0 4 0	
155 to 160	Nil.					

**BUILDING AND CONCRETE SAND.**

(1.7.1929 to 30.6.1930.)

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.

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

## BUILDING AND CONCRETE SAND—continued.

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

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

As regards Items Nos. 162 and 163, orders are to be placed on the most advantageous contractor, having regard to rate, freight to destination, and ability of Contractor to supply suitable material.

	Sand—					
†161	Fine		70 cub. yds.	c. yd.		Nil
†162	Coarse, delivered at Seaford	Vict.		"	0 2 4	R. W. McCulloch & Co.
†162A	" delivered at Cranbourne	"		"	0 2 4	Cranbourne Sand Pty. Ltd.
†162B	" delivered at Lal Lal	"	3,000 c. yds.	"	0 5 0	A. P. Parker
†163	Medium delivered at Seaford	"		"	0 2 4	R. W. McCulloch & Co.
†163A	" delivered at Cranbourne	"		"	0 2 4	Cranbourne Sand Pty. Ltd.
†163B	" delivered at Lal Lal	"		"	0 5 0	A. P. Parker
†164	Coarse, for concrete work, delivered at Pyalong	"	1,800 c. yds.	"	0 2 8	J. McNish
165	} Nil					
166						

## SAND FOR LOCOMOTIVES AND MOULDING PURPOSES.

(1.7.1929 to 30.6.1930.)

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.

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

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

As regards Items Nos. 167–167D, orders are to be placed on the most advantageous Contractor, having regard to the rate, freight to destination, and ability of Contractor to supply.

†167	Sand, for Locomotives, delivered at Seaford	Vict.		c. yd.	0 3 11	R. W. McCulloch & Co.
†167A	" " delivered at Ballarat East	"		"	0 4 6	George Waller
†167B	" " delivered at Coleraine	"	1,000 c. yds.	"	0 3 6	Permewan Wright Ltd.
†167C	" " delivered at Coy's Siding, Cranbourne	"		"	0 2 6	Cranbourne Sand Pty. Ltd.
†167D	" " delivered at Carisbrook	"		"	0 2 11	Dowie Bros.
†168	" for Brass Moulding purposes	"	60 "	"		Nil
†169	" Red, Moulders'	"	50 "	"		
170–171	Nil					

## INFUSORIAL EARTH (GROUND).

(1.7.1929 to 30.6.1930.)

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.

A sample of the Infusorial Earth, of at least 10 lb. in weight, shall be submitted with the tender.

In allotting the Contract the undermentioned factors, (a), (b), (c), and (d), in addition to price and place of delivery, were taken into consideration:—

- Fineness of sample.
- Moisture content of sample.
- Weight per unit volume of sample.
- Percentage of true Infusorial Earth.

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 will be paid for at the rate of 5s. per dozen.

The material shall be equal in every respect to supplies under 1927–1929 Contract.



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

INFUSORIAL EARTH (GROUND)—*continued.*

†172	Earth, Infusorial, in bags (which will remain property of Contractor), delivered in trucks at Hawthorn Railway Station	Vict.	40 tons	ton	8 5 0	Engineering Products Pty. Ltd.
------	--	-------	---------	-----	-------	--------------------------------

## CORDAGE, ROPE, AND TWINES.

(1.7.1929 to 30.6.1930.)

The Rope to be supplied under Items 189 to 194 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.

The samples submitted by G. Kinnear and Sons Pty. Ltd., items 189, 191, 192 are regarding quality only.

†173	Cord, Sash, Patent, Jute, any numbers ordered	Vict.	600 lb.	lb.	0 1 2½	G. Kinnear & Sons Pty. Ltd.
	Cord, Sash, Braided, in coils—					
†174	No. 6 .. .. .	"		do.	0 1 9	
†175	No. 7 .. .. .	"		do.	0 1 9	
†176	No. 8 .. .. .	"	900 "	do.	0 1 9	
†177	No. 9 .. .. .	"		do.	0 1 9	
†178	No. 10 .. .. .	"		do.	0 1 9	Ajax Cordage Mfg. Co. Pty. Ltd.
†179	No. 12 .. .. .	"		do.	0 1 9	
†180	Cord, Whip, any sizes ordered	"	30 "	do.	0 3 6	
†181	" Marking (Chalk) .. .. .	"	70 "	do.	0 3 0	Downs & Son Pty. Ltd.
†182	" Nicking Line, any sizes ordered	"	112 "	do.	0 2 3	
	Lines, Fishing—					Ajax Cordage Mfg. Co. Pty. Ltd.
†183	4 oz. .. .. .	"	3 gross	dozen	0 2 0	
†184	Medium .. .. .	"	3 "	do.	0 3 2	
†185	16 oz. .. .. .	"	3 "	do.	0 3 9	
†186	Flax, 16 oz. .. .. .	"	1 "	do.	0 5 0	
†187	Packing, Flax, pure .. .. .	"	12 cwt.	cwt.	7 1 0	
†188	Rope, Clothes Line .. .. .	"	5 "	do.	3 6 0	G. Kinnear & Sons Pty. Ltd.
†189	" Europe, bolt, entirely of new Russian hemp, up to 3", as ordered, with blue worsted thread in one strand	"	50 "	do.	5 4 0	
	" Manila, fine and long fibre, with blue worsted thread in one strand—					
†190	½" up to 2½", as ordered .. .. .	"	80 "	do.	5 4 0	
†191	Over 2½" up to 12", as ordered .. .. .	"	60 "	do.	5 4 0	
†192	" Manila, stretched for driving bolts, 3½" circ., 3 strand	"	90 "	do.	5 14 6	
†193	" New Zealand Flax, 1" to 2", as ordered, with blue yarn in one strand	"	300 "	do.	3 11 0	James Miller & Co. Pty. Ltd.
†194	" New Zealand Flax, 2½" to 3", as ordered, with one blue yarn in each strand	"	1,100 "	do.	3 11 0	
†195	Rope, Lashing, New Zealand Flax .. .. .	"	20 "	do.	3 2 6	
†196	Marline, 3 cord, in 1-lb. hanks .. .. .	"	1,400 lb.	lb.	0 1 2½	
†197	Spun yarn, Jute .. .. .	"	4 cwt.	cwt.	3 2 6	
†198	Twine, Binder .. .. .	"	20 "	do.	3 6 0	
†199	" Fine .. .. .	"		lb.	0 1 1½	Frank & Bryce Ltd.
†200	" Medium .. .. .	"	5,000 lb.	do.	0 1 0½	
†201	" Coarse .. .. .	"		do.	0 0 11½	
†202	" Seaming, Flax, Barbour's No. 1, 3-ply	U.K.	1,000 "	do.	0 3 1½	James Miller & Co. Pty. Ltd.
†203	" Coarse, Special, for Trimmers' use .. .. .	Vict.	1,000 "	do.	0 1 5	
†204	" Mattress, No. 2, 4-ply, in 1-lb. balls	"	200 "	do.	0 3 8	Downs & Son Pty. Ltd.
†205	" Machine, best 6-cord, right or left hand twist, as ordered, in 1-lb. balls, Lindsay Thompson & Co. Ltd.—Best pure linen thread	U.K.	2,000 "	do.	0 3 11	The Australian Agency
206 to 209	Nil.					

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

## CANVAS AND CANVAS HOSE.

(1.7.1929 to 30.6.1930.)

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.

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.
	lbs.	lbs.
210 and 218, 33 oz. Canvas	270	530
211 and 219, 30 "	250	500
212 and 220, 22 "	225	390
213, 20 "	200	390
214, 18 "	225	280
215, 16 "	200	250
216, 14 "	200	215
217, 12 "	190	200
221, OO, Bleached Canvas	185	330
222, Tanned Canvas	125	125
223, Lavender	125	125

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

## HOSE FOR FIRE EXTINCTION PURPOSES—Item No. 225.

The Hose shall comply with the Specification of the Metropolitan Fire Brigades Board, and after delivery may be submitted to that Board for test purposes.

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.

Under Items 212, 213, and 218, the Corporation undertakes to order from Dalgety and Co. Ltd. during the contract period the estimated requirements shown, less any similar Canvas that may have been ordered from Dalgety and Co. Ltd. under Items 2005, 2006, and 2011 of its 1927–29 contract subsequent to 8th March, 1929.

## Name of Manufacturer—

Items 210, 211, 219, and 220.—Baxter Bros., Victory No. 1.

Items 212, 213, and 218.—Boase Spinning Co. Ltd.

Items 214, 215, 216, and 221.—M. C. Thomson & Co. Ltd.

Item 217.—Wilson & Cunningham Ltd.

Items 222 and 223.—Holdsworth & Gibb.

Items 224 and 225.—F. Reddaway & Co.

Samples submitted by Gilbert Lodge & Co. are as regard quality only.

†210	Canvas, 36" wide— 33 oz. per square yard	.. ..	U.K.	1,000 lin. yds.	lin yd	0' 3 10 $\frac{1}{2}$	Gilbert Lodge & Co. Ltd.
†211	30 oz. "	.. ..	"	1,000 "	do.	0 3 6 $\frac{3}{4}$	Dalgety & Co. Ltd.
†212	22 oz. "	.. ..	"	2,463 "	do.	0 2 4 $\frac{1}{2}$	
†213	20 oz. "	.. ..	"	2,077 "	do.	0 2 3 $\frac{1}{4}$	
†214	18 oz. "	.. ..	"	10,000 "	do.	0 2 5 $\frac{1}{4}$	
†215	16 oz. "	.. ..	"	150 "	do.	0 2 3 $\frac{1}{2}$	J. Edmondson & Co. Pty. Ltd.
†216	14 oz. "	.. ..	"	1,200 "	do.	0 2 2 $\frac{1}{4}$	
†217	12 oz. "	.. ..	"	150 "	do.	0 1 10 $\frac{3}{4}$	Gair Manufacturing Co. Ltd.
	Canvas, 24" wide—						
†218	33 oz. per square yard	.. ..	"	2,535 "	do.	0 2 3 $\frac{3}{8}$	Dalgety & Co. Ltd.
†219	30 oz. "	.. ..	"	1,000 "	do.	0 2 4 $\frac{1}{2}$	Gilbert Lodge & Co. Ltd.
†220	22 oz. "	.. ..	"	1,000 "	do.	0 1 10 $\frac{3}{4}$	
†221	OO, Bleached, 28 oz. per square yard	.. ..	"	1,000 "	do.	0 2 4	J. Edmondson & Co. Pty. Ltd.
†222	Canvas, 72" wide, Tanned, 18 oz. per square yard. No. 3648	.. ..	"	300 "	do.	0 5 3	Gilbert Lodge & Co. Ltd.
†223	" 72" wide, Lavender, 18 oz. per square yard. No. 3648	.. ..	"	1,000 "	do.	0 5 3	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<b>CANVAS HOSE.</b>						
†224	Hose, Canvas, 2½", for other than fire extinction purposes	U.K.	5,000 feet	foot	0 0 10	Paul & Gray Ltd.
†225	" " 2½", for fire extinction purposes, Bursting pressure = 375 lbs. per square inch	"	4,000 "	do.	0 1 0	T. Evans Pty. Ltd.
226 } 228 }	Nil					

**CANVAS BAGS, TENTS, AND FLIES.**

(1.7.1929 to 30.6.1930.)

Item No. 229.—The Canvas Tool Bags shall be made from the heaviest description of flax Canvas, free from dressing and sewn with the best six-cord linen thread—the bottom shall be manufactured from the best sole leather.

Item No. 230.—The Canvas Water Bags shall be made from the best 28-oz. pure flax, bleached Canvas, sewn with the best six-cord linen thread. All seams shall be double sewn. A metal tap shall be fitted in lieu of the old style of Canvas tube.

Item No. 231.—The Canvas Water Bottles shall be made from the best 28-oz. all long flax Canvas, and sewn with the best six-cord linen thread.

The Tents and Flies shall be manufactured from 10-oz. Duck. The tenderer has submitted a sample of a completely manufactured Tent and Fly, and a sample piece (12" x 12") of the Duck from which the Tents and Flies will be manufactured.

The Tents shall be made with ridge bands and door flaps, and all eyelet holes shall be strongly reinforced with canvas patch—all eyelets shall be of extra strong quality.

The Flies shall be made complete with ridge bands and all eyelet holes reinforced.

Forty feet of New Zealand Rope shall be supplied with both Tent and Fly. Linen thread only shall be used.

Inspection order should be issued on Foreman Sailmaker, Newport Workshops, in respect to deliveries of Tents and Flies under Items Nos. 232 to 235.

†229	Bags, Tool, Canvas .. .. .	Victoria	36	each	0 9 3	} Chief Mechanical Engineer.
†230	" Water, Canvas .. .. .	"	100	do.	0 9 9	
†231	Bottles, Water, Canvas .. .. .	"	100	do.	0 3 4	
†232	Flies, Duck, 8' x 10', for 6' x 8' Tents .. .. .	"	200	do.	0 12 11½	
†233	" " 10' x 12', for 8' x 10' Tents .. .. .	"	30	do.	0 19 3	} Gair Manufacturing Co. Pty. Ltd.
†234	Tents, Duck, 6' x 8' .. .. .	"	144	do.	1 6 11	
†235	" " 8' x 10' .. .. .	"	24	do.	1 15 11	
236 } to 238 }	Nil.					

**WIRE ROPE.**

(1.7.1929 to 30.6.1930.)

Name of Manufacturers:—Aust. Wire Rope Works Ltd., Newcastle, N.S.W.

Rope, Steel Wire, Special, flexible, galvanized, 6 strands, 19 wires per strand—						
	Circum.	Aggregate Breaking Strength of Rope.				
239	1"	Tons ..	N.S.W.	900 feet	foot	..
240	1"	59 ..	"	200 "	do.	0 0 2
241	1"	82 ..	"	4,000 "	do.	0 0 2
242	1"	1.2 ..	"	7,000 "	do.	0 0 2½
243	1"	1.8 ..	"	3,000 "	do.	0 0 2½
244	1"	3.3 ..	"	600 "	do.	0 0 2½
245	1½"	5.1 ..	"	4,000 "	do.	0 0 2½
246	1½"	7.3 ..	"	50 "	do.	0 0 3½
247	1½"	9.8 ..	"	2,500 "	do.	0 0 4½
248	2"	13.4 ..	"	250 "	do.	0 0 5½
249	2"	17.5 ..	"	50 "	do.	0 0 6½
250	2½"	20.6 ..	"	200 "	do.	0 0 7½
251	2½"	6 strand, 12 wires per strand, for tail ropes	"	3,000 "	do.	0 0 5

Nil

George Russell Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
WIRE ROPE— <i>continued.</i>						
	Rope, Steel Wire, Special, flexible, galvanized, 6 strands, 24 wires per strand—					
	Circum. Aggregate Breaking Strength of Rope.					
252	1" 3.3 Tons ..	N.S.W.	2,000 feet	foot	0 0 3	George Russell Ltd.
253	1½" 4.9 " ..	"	2,000 "	do.	0 0 3½	
254	1½" 6.8 " ..	"	2,000 "	do.	0 0 3½	
255	1½" 9.7 " ..	"	4,000 "	do.	0 0 5	
256	2" 12.4 " ..	"	3,000 "	do.	0 0 5½	
257	2½" 16.2 " ..	"	4,500 "	do.	0 0 6½	
258	2½" 19.7 " ..	"	7,000 "	do.	0 0 7	
259	Rope, Steel Wire, flexible, 21 gauge (seizing wire)	"	1,000 "	do.	0 0 0½	
260 to 261	Nil					

## BELTING, LEATHER, AND LEATHER GOODS.

(1.7.1929 to 30.6.1930.)

## SPECIFICATION FOR ITEMS 262 TO 268.

All belting leather shall be made from green salted ox hide, and be free from soft or spongy spots, brands or other serious defects.

All leather, after stuffing, shall be thoroughly stretched in butt or strip, and all belt pieces shall have the stretcher marks cut off.

No sectional length of strip shall be more than 54 inches in length, including the lap. The minimum length of any strip cut from side to side shall be 36 inches, including lap, excepting that in double belts one-eighth of the total number of pieces may be between 20 inches and 36 inches, provided that these shall not occur consecutively.

The joints of both single and double belting, and the plies of double belting shall be thoroughly cemented together. When pulled apart the cemented surfaces shall not appear glazed or shiny.

The joints of single-ply belting shall be sewn with one row of copper wire along each edge, and double belting shall be sewn with copper wire along the entire length of the belt as follows:—Belting up to 4 inches wide, one row along each edge, and belting over 4 inches to 8 inches wide, one row along each edge and one row in the centre.

The use of shims and filler strips and excessive levelling or splitting is prohibited.

The tensile breaking strength of the leather shall have a minimum value of 3,000 lbs. per square inch. The average elongation at 2,500 lbs. per square inch shall not exceed 15 per cent. on 2 inches.

As regards Items Nos. 269 to 272, where the value of a Belt exceeds £5 the service includes fitting and jointing. The service also includes shortening any belt (labour only).

The Laminated Belting under Items Nos. 269 to 272 shall be perfectly straight and well stretched. The laminations shall be of even grade and thickness, and shall be cut from specially selected hides.

The Butts supplied under Item No. 282 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.

As regards Item No. 283, the Butts shall be trimmed to a uniform thickness of approximately ¼ inch. Tenderer to submit a complete trimmed hide as a sample.

As regards Items Nos. 284 and 285, the Leather Butts shall be of even grade and thickness, and suitable for the manufacture of Westinghouse Brake Washers. They shall be of the very best quality for the purpose.

BELTING, LEATHER.						
†262	Single, hemp sewn—					
	Up to 4" wide, as ordered .. ..	Vict.	1,000 sq. ft.	sq. ft.	0 4 4½	Joshua Pitt Pty. Ltd.
†263	4½" to 6" wide, as ordered .. ..	"	200 "	do.	0 4 5½	
	Single, thong sewn—					
†264	Up to 4" wide, as ordered .. ..	"	150 "	do.	0 4 6	
†265	4½" to 6" wide, as ordered .. ..	"	30 "	do.	0 4 7	
	Double, thong sewn—					
†266	Up to 4" wide, as ordered .. ..	"	450 "	do.	0 9 9	
	Double, copper, sewn—					
†267	4½" to 6" wide, as ordered, 2 rows stitching .. ..	"	300 "	do.	0 8 11	}
†268	6½" to 8" wide, as ordered, 4 rows stitching, evenly spaced .. ..	"	100 "	do.	0 9 0	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
BELTING, LEATHER, AND LEATHER GOODS—continued.						
†269	Belting, Leather, Black Stripe, Laminated, Endless, or otherwise, any widths ordered—	N.S.W.	300 lin. ft.	lin. ft.	Less 10% and 10%	Gardner, Waern & Co. Pty. Ltd.
†270	1½" thick, No. 1 .. .. .					
†271	" " " No. 2 .. .. .					
†272	" " " No. 3 .. .. .					
†273	Threads for jointing laminated belting—	"	4 dozen	dozen	0 10 9	
†274	For 1½" thick belts, No. 1 .. .. .					
†275	" " " " No. 2 .. .. .					
†276	" " " " No. 3 .. .. .					
†277	Belting, Composition, Kelvin Balata, flat; first grade, in the following sizes—	U.K.	£1,000	..	Less 40% and 5%	Kendall, Knight & Co. Ltd.
	1" x 3 and 5 ply .. .. .					
	1½" x 3 ply .. .. .					
	1½" x 3, 4 and 5 ply .. .. .					
	1½" x 3 and 4 ply .. .. .					
	2", 2½", 2½", 3", 3½" and 4" x 3, 4 and 5 ply .. .. .					
	4½" x 3, 4, 5 and 6 ply .. .. .					
	5" x 3, 4, 5, 6 and 8 ply .. .. .					
	5½" x 3, 4, 5 and 6 ply .. .. .					
	6" and 7" x 4, 5 and 6 ply .. .. .					
	8", 9" and 10" x 4, 5, 6 and 8 ply .. .. .					
	12" x 5, 6 and 8 ply .. .. .					
†278	Belting, Rubberized Canvas, 4-ply—	Vict.	600 feet	lin. ft.	0 0 11¼	Dunlop Perdreau Rubber Co. Ltd.
†279	4" wide; in lengths of 9' 4" .. .. .					
	4" wide, in rolls to cut lengths of 9' 4" .. .. .	"		do.	0 0 11¼	
LEATHER.						
†280	Leather—					
†281	Basil, large size .. .. .	"	1,600	each		Nil
†282	Bellows .. .. .	Vict.	100 cwt.	cwt.	10 14 0	George Pizzey & Son Ltd.
†283	Butts, special wax filled .. .. .	"	1 "	do.		Nil
	" Harness of an even thickness throughout, prepared in oil, black or brown .. .. .	Vict.	1 "	do.	15 10 0	George Pizzey & Son Ltd.
†284	" special, black, heavy .. .. .	"	20 "	"	19 12 0	Michaelis, Hallenstein Pty. Ltd.
†285	" " " light .. .. .				"	
†286	Chrome .. .. .	"	1 "	do.	18 4 0	George Pizzey & Son Ltd.
†287	Harness, Brown .. .. .	"	20 "	do.	11 4 0	
†288	" Black, heavy .. .. .	"	10 "	do.	11 4 0	W. Braithwaite Pty. Ltd.
†289	Rein, Brown, stained .. .. .	"	12 "	do.	13 15 0	
†290	Sole, Trimmed .. .. .	"	100 "	lb.	0 2 4	
LEATHER GOODS.						
Bags—						
*291	Cash, large, plain .. .. .	Vict.	150	each	0 3 6	Michaelis, Hallenstein Pty. Ltd.
*292	Tool, Linesmen's .. .. .		12	do.	1 0 0	
*293	Cash, Hand, 16" .. .. .		20	do.	1 11 6	George Pizzey & Son Ltd.
*294	Tool .. .. .	"	30	do.	1 6 0	W. H. Hunter & Co. Pty. Ltd.
*295	Signal Adjuster .. .. .	"	12	do.	1 0 0	Michaelis, Hallenstein Pty. Ltd.
*296	Motormen's Kit .. .. .		6	do.	1 7 6	
*297	Guards' Kit .. .. .	"	10	do.	1 10 0	George Pizzey & Son Ltd.
*298	Weighbridge Ticket, lettered, as ordered .. .. .	"	10	do.	0 13 0	
*299	Carriers, Miniature Staff .. .. .	"	144	do.	0 2 4	George Pizzey & Son Ltd.
†300	Cases, Attache, solid leather, 16" x 9" approx. .. .. .	"	20	do.	1 6 6	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<b>BELTING, LEATHER, AND LEATHER GOODS—continued.</b>						
<b>LEATHER GOODS—continued.</b>						
†301	Clogs, strong, split kip, watertight pattern, wooden soles, iron shod, sizes 5 to 10, as ordered	Vict.	150 pairs	pair	0 9 6	McIlroy & Plowman Pty. Ltd.
†302	„ heavy, split kip, field, wooden soles, iron shod, sizes 5 to 10, as ordered		..	..	..	
*303	Portfolios, Relieving Stationmasters'	Vict.	6	each	1 6 2	W. H. Hunter & Co. Pty. Ltd.
*304	Straps, Body Belt, 8' 6" long x 2", with two buckles, the joint to be made at the buckle end (breaking strength not less than 600 lb.)	„	20	do.	0 11 6	
*305	Straps, Clip, 7' 6" long, 1½" wide, heavy buckles, to stand a test pull of 600 lb.	„	30	do.	0 4 10	
306 to 309	Nil					

**FIRE BRICKS, ETC.**

(1.7.1929 to 30.6.1930.)

The Fire Bricks and Lumps 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.

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

**Place of Delivery—**

Australian Gas Retort and Firebrick Manufacturing Co. in trucks at Windsor.

Ordish Firebrick Co. Pty. Ltd. in trucks at Dandenong.

Edna Firebrick Co. Pty. Ltd. in trucks at Dandenong.

Engineering Products Pty. Ltd. in trucks at Hawthorn.

As regards items 315 and 316, two tenders have been accepted. A trial order is to be placed on the Edna Firebrick Co. Pty. Ltd., and if the bricks prove satisfactory and if satisfactory service be rendered, this Company should receive 66% of the orders.

†310	Boiler Covering Composition, soft setting ..	Vict.	60 cwt.	cwt.	1 6 0	Engineering Products Pty. Ltd.
†311	Blocks, Cilinsulate, 12" x 8" x 1½" ..	"	2,000	each	0 2 0	
†312	Bricks, Fire, Locomotive— Ordinary Small, to Item No. 1 of Drawing No. 1524	"	63,000	100	1 10 0	Ordish Firebrick Co. Pty. Ltd.
†313	Side Carrier, to Item No. 2	"	15,000	do.	2 0 0	
†314	Front Centre, to Item No. 3	"	15,000	do.	2 0 0	
†315	Bricks, Fire— Ordinary, including splits, soaps and wedges	"	200,000	do.	0 18 0	Ordish Firebrick Co. Pty. Pty. Ltd.
†315A	Ordinary, including splits, soaps and wedges	"		do.	0 14 0	Edna Firebrick Co. Pty. Ltd.
†316	To any other sizes and templates ordered, templates not exceeding 9" x 4½" x 3½"	"		do.	0 18 0	Ordish Firebrick Co. Pty. Ltd.
†316A	To any other sizes and templates ordered, templates not exceeding 9" x 4½" x 3½"	"		do.	0 16 0	Edna Firebrick Co. Pty. Ltd.
*317	Segment, 9" x 6½" x 6"	"		do.	1 10 0	Australian Gas Retort & Firebrick Mfg. Co.
†318	Segment, to any other sizes and templates ordered	"	10,000	do.	1 10 0	
319	Bricks, Fire, for Oil Burners— To Blue Print, No. 1 ..	"	2	each	0 10 0	Ordish Firebrick Co. Pty. Ltd.
320	" " No. 2 ..	"	40	do.	0 4 0	
321	" " No. 3 ..	"	40	do.	0 1 0	
†322	Clay, Fire, machine ground ..	"	1,300 cwt.	cwt.	0 1 6	
†323	" " extra fine ground ..	"	400 "	do.	0 2 0	Ordish Firebrick Co. Pty. Ltd.
†324	Lumps, Fire— 12" x 6" x 36" ..	"	10 "	do.	0 7 0	
†325	Any sizes other than 12" x 6" x 36", and any patterns ordered other than the follow- ing:—Any lump over 9" x 4½" x 3½", or segment over 10½" x 6" x 3"	"	500 "	do.	0 7 0	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
FIRE BRICKS, ETC.—continued.						
*326	Pedestals, Fire Lump .. .. .	Vict.	50	100	1 15 0	} Australian Gas Retort & Firebrick Mfg. Co.
	Retort Fire Lumps for Pintsch Gas Works, as per Drawing No. 4055—					
327	Large Shields .. .. .		70	each	..	} Nil
328	Sample A1 .. .. .		50	do.	..	
329	„ A2 .. .. .		25	do.	..	
330	„ D2 .. .. .		6	do.	..	
331	„ E .. .. .		40	do.	..	
332	„ F1 .. .. .		40	do.	..	
333	„ F2 .. .. .		15	do.	..	
334	„ G1 .. .. .		20	do.	..	
335	„ G2 .. .. .		12	do.	..	
336	„ H1 .. .. .		3	do.	..	
337	„ H2 .. .. .		3	do.	..	
338	„ M .. .. .		12	do.	..	
339	„ P .. .. .		35	do.	..	
340	„ Q .. .. .		10	do.	..	
341	„ X1 .. .. .		6	do.	..	
342	„ X2 .. .. .		6	do.	..	
343 to 346	} Nil.					

## FOUNDRY COKE.

(1.7.1929 to 30.6.1930.)

## SPECIFICATION FOR COKE.

Moisture content shall be less than 2 per cent.

Ash content shall be less than 15 per cent.

Sulphur content shall be less than 1 per cent.

Volatile matter shall be less than 2 per cent.

The Coke must be reasonably free from dust and small pieces.

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

The rate does 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.

It will be noted that the contract provides for alternative rates, shipped from Sydney or Port Kembla.

Delivery ex Port Kembla is lower but it is believed that shipment ex Sydney gives better results, as the breakage when loading at this port is very slight as compared with that of Port Kembla.

The Storekeeper, Newport Loco. Workshops, will arrange to place an order for delivery ex each port and in due course report on the results obtained to determine where future shipments will be made from.

The order shall indicate to the Contractor in each case from which port the coke is to be shipped.

The contract is subject to certain conditions regarding Strikes, &c.

Should any duty, rate or charge upon Coke be imposed by the Parliament of the Commonwealth or of any of the States or by any Authority empowered to make or levy duties, rates or charges on Coke, or should the cost of production or delivery of the Coke be increased or decreased by the Award or Order of any competent Authority or by Federal or State Legislative Action or by the variation of Government Railway Freight, Wharfage, Shipping charges, Crane dues, or by increase or decrease in cost of Coal brought about by any of the foregoing causes during the currency of this contract, such increased or decreased cost of Coke is to be borne by or allowed to the Corporation respectively.

347	Coke, Foundry, Purified, "Mount Pleasant," shipped from Port Kembla	N.S.W.	} 700 tons	ton	3 6 6	} Melbourne Steamship Co. Ltd.
347A	Coke, Foundry, Purified, "Mount Pleasant," shipped from Sydney	„		do.	3 9 6	

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

## FILES AND RASPS.

(1.7.1929 to 30.6.1930.)

The estimated requirements are based on the full list price.

The Files and Rasps for Items 348 to 350 shall be of any description, shape, length, or edge ordered.

					Percentage off Price List submitted by contractor with tender and current during the period of the contract.	
348	Files, as ordered, "Nicholson" .. .. .	U.S.A.	£1,000		47½%	J. Danks & Son Pty. Ltd.
349	Rasps, as ordered, "Nicholson" .. .. .	"			47½%	
350	Files, Saw, "Nicholson" .. .. .	"		£150	47½%	
*351	" Valve rubber, bastard cut, 6" x 1½", "Chain Brand" .. .. .	U.K.	24	each	0 4 0	Firdaw Eng. Supply Coy. Pty. Ltd.
*352	" Valve rubber, bastard cut, 7" x 1½", "Chain Brand" .. .. .	"	40	do.	0 5 0	
353	" Dreadnought, 16" .. .. .	"	24	do.	0 5 9	J. Danks & Son Pty. Ltd.
354	Nil					
355						

## WOODEN HANDLES.

(1.7.1929 to 30.6.1930.)

The rate tendered by Hely Bros. is for delivery on wharf exclusive of cost of bags, and, as minimum cartage charges will require to be paid, orders should not be placed for small quantities. Stevedoring is to Contractor's account and is to be deducted from invoice.

Handles—							
†356	Adze. . . . .	N.S.W.	50 doz.	dozen	0 15 0	Hely Bros. Ltd.	
†357	Axe, 32", No. 1. Gem . . . . .	U.S.A.	12 "	do.	1 3 3	Hardware Co. of Aust. Pty. Ltd.	
†358	Axe, 36". No. 1. Gem . . . . .	"	60 "	do.	1 3 3		
†359	Broom, Short, 3' 6" . . . . .	Vict.	6 "	do.	0 3 0	Workshops Manager, Spotswood	
†360	" Long, 6', straight . . . . .	"	40 "	do.	0 4 9		
†361	Claw Hammer. No. 1. Axme . . . . .	U.S.A.	4 "	do.	0 5 9	McPherson's Pty. Ltd.	
Handles, Hammer, first quality—							
362	14" No. 1. Hickory. Strock's . . . . .	"	20 "	do.	0 5 6	Briscoe & Co. Ltd.	
363	16" . . . . .	"	180 "	do.	0 6 6		
364	18" . . . . .	"	80 "	do.	0 6 11		
†365	20" . . . . .	"	80 "	do.	0 8 0		
366	22" . . . . .	"	12 "	do.	0 8 9		
367	24" . . . . .	"	50 "	do.	0 10 3		
*368	24", large eye. Bruner & Co. . . . .	"	6 "	do.	0 11 0	McPherson's Pty. Ltd.	
†369	30" No. 1. Perfection . . . . .	"	100 "	do.	0 14 9	Hardware Co. of Aust. Pty. Ltd.	
†370	36" Hickory . . . . .	U.S.A. & Vict.	100 "	do.	0 18 6	John Perry Pty. Ltd.	
†371	38" No. 1. Perfection . . . . .	U.S.A.	25 "	do.	1 1 9	Hardware Co. of Aust. Pty. Ltd.	
*372	38", large eye. Strock's No. 1 Hickory . . . . .	"	3 "	do.	0 18 9	Briscoe & Co. Ltd.	
*373	Handles, Mop, 1½" dia., 4' long . . . . .	"	24 "	do.	..	Nil	
*374	" " " 6' long . . . . .	"	"	do.	..		
Handles, Pick—							
†375	D.E., Navvy, "Gumleaf" . . . . .	Vict.	160 "	do.	0 13 11	McPherson's Pty. Ltd.	
†376	Miners', "Ballarat" . . . . .	"	100 "	do.	..	Nil	
†377	Coal Miners', 85A . . . . .	Vict.	20 "	do.	0 6 11½	McPherson's Pty. Ltd.	
†378	Handles, Shovel, long handled, bent . . . . .	N.S.W.	25 "	do.	0 13 6	Hely Bros. Ltd.	
†379	" " S.H., bent, D top . . . . .	"	40 "	do.	1 0 6	James Walker John Danks & Son Pty. Ltd.	
†380	" " Scythe "Derby Ball" . . . . .	U.S.A.	2 "	do.	3 13 9		
†381	" " Hatchet, Hickory, for No. 2 "Brades" Hunters' Hatchet, "Turner, Day & Co." . . . . .	"	6 "	do.	0 10 0		
382 to 386	Nil.						



Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<b>AUGERS.</b>						
(1.7.1929 to 30.6.1930.)						
387	Augers, Screw, "Ridgway"— 3/8" diameter .. .. .	U.K.	60 doz.	dozen	0 16 2	Briscoe & Co. Ltd.
388	1/2" .. .. .	"		do.	0 16 2	
389	3/4" .. .. .	"		do.	0 16 2	
390	1" .. .. .	"		do.	0 18 3	
391	1 1/8" .. .. .	"	70 "	do.	0 18 3	
392	1 1/4" .. .. .	"		do.	1 2 1	
393	1 1/2" .. .. .	"	150 "	do.	1 2 1	
394	1 3/4" .. .. .	"		do.	1 4 2	
395	2" .. .. .	"	10 "	do.	1 4 2	
396	2 1/8" .. .. .	"		do.	1 7 4	
397	1" .. .. .	"	30 "	do.	1 7 4	
398	2" .. .. .	"		do.	2 19 6	
399	2 1/2" .. .. .	"	1 "	do.	5 12 0	
	Augers, Screw, for railway hardwood sleepers, 8 threads per inch on lead screw, and cutting edges sharpened, "Ridgway"—					
400	1 1/8" diameter .. .. .	"	600 "	do.	1 2 1	
401	1 1/4" .. .. .	"		do.	1 2 1	
402-404	Nil.					
<b>ADZES, AXES, ETC.</b>						
(1.7.1929 to 30.6.1930.)						
405	Adzes, Carpenters'— No. 2, "Brades," plain, No. 396 ..	U.K.	70	each	0 3 11	E. Duckett & Sons
405A	No. 2, "Brades," pin-polled, No. 382 ..	"		do.	0 3 5	Briscoe & Co. Ltd.
406	No. 3, "Brades," plain, No. 396 ..	"	100	do.	0 4 7	James Walker
406A	No. 3, "Brades," pin-polled, No. 382 ..	"		do.	0 3 7	Briscoe & Co. Ltd.
407	Axes, handled, 5 lb., "Kelly's" ..	U.S.A.	450	do.	0 7 7 1/2	F. Vial & Sons Pty. Ltd.
408	Hatchets, Axe pattern, handled, No. 2, "Brades," No. 378 ..	U.K.	300	do.	0 2 6	C. S. Green & Son
409	" Lathing, No. 3, handled, "Brades," No. 1688 ..	"	48	do.	0 3 2	James Walker
410	Hooks, Bush, axe-handled, "Whitehouse" Hedgehog," No. 666 ..	"	4	do.	0 5 9	E. Duckett & Sons
411	" Fern, "Brades," No. 264 ..	"	100	do.	0 3 2	James Walker
412	Mattocks, 4 1/2 lb., "Brades," No. 1332 ..	"	20	do.	0 2 8	E. Duckett & Sons
413	Slashers, Straight-handled, "Whitehouse," Hedgehog, No. 213A x 10" ..	"	5	do.	0 5 3	
414-415	Nil.					
<b>SHOVELS, PICKS, ETC.</b>						
(1.7.1929 to 30.6.1930.)						
416	Shovels, Steel— Long handled, round mouth, No. 3 ..	Victoria	500	each	0 5 0	Titan Manufacturing Co. Pty. Ltd.
417	" square mouth, No. 3 ..	U.K.		do.	0 5 0	
418	Moulders', smooth back, No. 2, "Brades" ..	U.K.	150	do.	0 6 2	McPherson's Pty. Ltd.
419	Navy, round mouth, No. 4 ..	Victoria	1,000	do.	0 5 3	Titan Manufacturing Co. Pty. Ltd.
420	Square mouth, No. 3 ..	"	2,000	do.	0 5 1	
421	Fuelmen's, No. 6, coal scoops, "Brades" ..	U.K.	500	do.	0 7 2	James Walker
422	Coal, square-mouthed, D handled, No. 6, "J. H. Smith" ..	"	120	do.	0 3 11	Hardware Co. of Aust. Pty. Ltd.
423	Coal, square-mouthed, D handled, No. 7, "J. H. Smith" ..	"		do.	0 4 3	
424	Firemen's, "Gaythwaite & Black" ..	N.S.W.	900	do.	0 6 8	J. Wildridge & Sinclair Ltd.
424A	Firemen's .. .. .	"		do.	0 7 0	Tulloch's Phoenix Iron Works Ltd.
425	Forks, Digging, 5-prong, "Brades 743" ..	U.K.	10	do.	0 5 4	Hardware Co. of Aust. Pty. Ltd.
426	" Stone, 8-prong, "Brades" ..	"	60	do.	0 6 11 1/2	McPherson's Pty. Ltd.
427	Picks, Miners', 4 lb., "Brades 1337" ..	"	12	do.	0 2 3	
428	" Coal Miners', 2 lb., "Brades" ..	"	60	do.	0 1 8 1/2	
429	" Navy, double-ended, diamond and chisel pointed, 7 lb., "Brades" ..	"	250	do.	0 1 10 1/2	
430	Steel D's (without stales) for Shovel Handles	Vict.	50	dozen	0 12 6	Titan Manufacturing Co. Pty. Ltd.
431-433	Nil.					

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<b>SAWS AND BLADES.</b> (1.7.1929 to 30.6.1930.)						
	Blades, Hack Saw, High Speed—					
†434	8" x $\frac{1}{2}$ " x 23 G. . . . .	U.K.	4 doz.	dozen.	0 1 5	Eagle & Globe Steel Co. Ltd.
†435	9" x $\frac{1}{2}$ " x 23 G. . . . .	"	500 "	do.	0 1 7	
†436	10" x $\frac{1}{2}$ " x 23 G. . . . .	"	1,600 "	do.	0 1 9	
†437	12" x $\frac{1}{2}$ " x .025 . . . . .	"	1,700 "	do.	0 2 1	
†438	16" x 1" x 18 G., "Milford" . . . . .	U.S.A.	2 "	do.	0 8 4	E. P. Bevan & Son Pty. Ltd.
†439	17" x 1" x 18 G. . . . .	U.K.	150 "	do.	0 7 3	Eagle & Globe Steel Co. Ltd.
440	16", centre to centre of holes $1\frac{1}{2}$ ", 14 to 16 gauge, as ordered . . . . .	"	10 "	do.	"	Nil
441	21", centre to centre of holes $1\frac{1}{2}$ ", 14 to 16 gauge, as ordered . . . . .	"	10 "	do.	"	
442	Any length over 12" (other than 16", 17", or 21" as shown above), as ordered . . . . .	U.K.	5,000 ins.	inch	0 0 0.42	Eagle & Globe Steel Co. Ltd.
443	16" "x $1\frac{1}{2}$ " wide, "Eclipse" . . . . .	"	6 doz.	dozen	2 5 0	McPherson's Pty. Ltd.
	Blades, Hack Saw, "Milford" or any suitable alternative—					
†444	12" x $\frac{9}{16}$ " x 23 gauge, 16 teeth to the in. . . . .	"	2 "	do.	"	Nil
†445	24" x $1\frac{1}{2}$ " x .056 . . . . .	"	4 "	do.	"	
†446	Blades, Hack Saw, High Speed, for railway rails, 12" x $\frac{9}{16}$ " x 23 gauge, "Marsh Roxo" E.Q. 16 points per inch . . . . .	U.K.	50 "	do.	0 1 11	Frank Wells Pty. Ltd.
	Saws, Band, narrow, in coils up to 108', and any gauge, as ordered—					
447	$\frac{1}{2}$ " . . . . .	French	900 feet	foot	0 0 2 $\frac{1}{2}$	H. T. Justins
448	$\frac{3}{4}$ " . . . . .	U.K.		do.	0 0 3 $\frac{1}{2}$	H. O. White & Co.
449	$\frac{1}{2}$ " . . . . .	French		do.	0 0 3 $\frac{1}{2}$	H. T. Justins
450	$\frac{3}{4}$ " . . . . .	U.K.	500 "	do.	0 0 4 $\frac{1}{2}$	S. Robertson Pty. Ltd.
451	$\frac{1}{2}$ " . . . . .	"		do.	0 0 5 $\frac{1}{2}$	
452	$\frac{3}{4}$ " . . . . .	"	250 "	do.	0 0 5 $\frac{1}{2}$	H. T. Justins
453	1" "Peugeot Freres" . . . . .	France		do.	0 0 6	
	Saws, Circular, any gauge ordered—					
454	30" . . . . .	Vict.	500 ins.	each	2 11 0	Eagle & Globe Steel Co. Ltd.
455	36" . . . . .	U.K.		do.	3 10 0	H. O. White & Co.
†456	Saws, Crosscut, Lightning, Tasmanian, or Peg Tooth, as ordered, any length ordered, Carbon Steel, "Premier" . . . . .	"	150 feet	lin. ft.	0 3 2	Briscoe & Co. Ltd.
†457	Saws, Crosscut, Lightning, Tasmanian, or Peg Tooth, as ordered, any length ordered, Stainless Steel . . . . .	"		do.	"	Nil
†458	Saws, Hand, 26", any tooth, as ordered, Carbon Steel, "Parkes No. 96" . . . . .	U.K.	150	each	0 7 0	Briscoe & Co. Ltd.
†459	Saws, Hand, 26", any tooth, as ordered, Stainless Steel . . . . .	"		do.	"	Nil
†460	Saws, Rip, 28", any tooth, as ordered, Carbon Steel, "Tyzack" . . . . .	U.K.	10	do.	0 7 9	Briscoe & Co. Ltd.
†461	Saws, Rip, 28", any tooth, as ordered, Stainless Steel . . . . .	"		do.	"	Nil
†462	Saws, Lightning, 1-man, any length, as ordered, Carbon Steel, "Ward & Payne" . . . . .	U.K.	150 feet	lin. ft.	0 3 2	E. Duckett & Sons
†463	Saws, Lightning, 1-man, any length, as ordered, Stainless Steel . . . . .	"		do.	"	Nil
464 to 466	Nil					

**WIRE (IRON AND STEEL).**

1.7.29 to 30.6.1930.

**BLACK STEEL WIRE.—Item No. 478.**

The Mild Steel Wire under Item 478 shall be of the best quality mild steel, and shall be free from rust and 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  $1\frac{1}{2}$  times the thickness of the test piece and the sides are parallel.

The Wire shall be supplied in coils.

WIRE, IRON AND STEEL—*continued.*STEEL STRANDED SIGNAL WIRE.—*Item No. 479.*

The Signal Wire under Item 479 shall be in accordance with Wire specified in British Engineering Standards Association Specification No. 163 of 1924 and therein designated W.S.3.

SPECIFICATION FOR GALVANIZED STEEL STRANDED WIRE.—*Item No. 480.*

*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.

*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), and (c). 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 tests 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, 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 four times with each sample without there being any signs of reddish deposit of metallic copper on the Wire. Not more than three pieces of Wire are to be immersed in the solution at one and the same time.
- (c) The sample pieces of the galvanized Wire shall bear winding round a bar  $1\frac{1}{2}$  inches in diameter without the galvanized surface showing signs of cracking.

*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.

*How Delivered.*—The Standard 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 inches x 15 inches x  $\frac{1}{4}$  inch 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 net weights also number of feet on drum are to be stencilled on the drum in figures which should not be less than  $1\frac{1}{2}$  inches high.

*Delivery.*—The delivery of the Galvanized Steel Stranded Wire shall be given as directed, at the Corporation's Overhead Construction Storehouse, Laurens-street, North Melbourne.

*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 8 (b) of this Specification.

(a) Number of 1 (one) minute dips guaranteed is. . . . . No.

FENCING WIRE.—*Items Nos. 481 and 482.*

In the case of Fencing Wire required for delivery to the Goods Sheds for despatch to the country, the Contractor will require to have the same weighed on one of the weighbridges at the Spencer-street Goods Sheds, and attach to his Delivery Docket a copy of the Weighbridge Ticket showing the number of coils and weight of Wire delivered. The cost of weighing and Weighbridge Ticket shall be borne by the Contractor.

SPECIFICATION FOR GALVANIZED IRON OR STEEL WIRE.—*Items Nos. 483 and 484.*

A "piece" shall be understood to mean a single length of Wire without weld, joint, or splice of any description either before being drawn or in the finished Wire.

A "coil" shall be held to mean a piece of Wire in the form of a coil.

A "bundle" one coil, or two or more coils properly bound together.

A "parcel" any quantity of manufactured Wire presented for examination and testing at any one time.

A "mil" is the one-thousandth part of an inch.

The standard ohm is the unit of resistance adopted by the British Board of Trade, and legalized by the British Order in Council of 23rd August, 1894.

The Wire shall be of low carbon iron or steel, uniformly annealed, soft, pliable, free from scale, inequalities, flaws, splits, and other defects, uniformly cylindrical, and of the sizes shown in the annexed table.

## WIRE, IRON AND STEEL—continued.

## SPECIFICATION FOR GALVANIZED IRON WIRE—continued.

The Wire shall be drawn in continuous pieces of the weights and diameters given in the annexed table. Each piece must be warranted to contain no weld, joint, or splice whatever, either in the rod before it is drawn or in the finished Wire.

The Wire shall be well galvanized with zinc spelter, and this shall be tested by taking samples from any piece or pieces and plunging them into a saturated solution of Sulphate of Copper at 60 degrees Fahr. and allowing them to remain in the solution for one minute, when they are to be withdrawn and wiped clean; the galvanizing shall admit of this process being four times performed with each sample, without there being any sign of a reddish deposit of Metallic Copper on the Wire, which would be the case if the coating of zinc were too thin. Samples taken from any piece or pieces of the several sizes shall also bear bending round a bar of the diameter given below, without any sign of the zinc cracking or peeling off.

Weight per mile in lb.	..	..	..	400	..	200
Diameter of bar in inches	..	..	..	1½	..	1¼

To prove its ductility the Wire shall be capable of bearing the number of twists shown in the annexed table without breaking or showing any signs of splitting or other defect. The test shall be made as follows:—The piece of wire shall be gripped by two vices, one of which shall be free to move longitudinally and twisted by one of the vices being made to revolve at a speed not exceeding one revolution per second, the twists being reckoned by means of an ink mark which forms a helix of the Wire during torsion. The full number of twists shall be distinctly visible between the vices, no fractions being reckoned.

The tensile breaking strength of the Wire shall be tested by means of a lever or other machine which has the approval of the Receiving Officer. The Wire shall at first lift a weight equal to at least nine-tenths (9/10) of the minimum tensile strength shown in the table for the size under trial, and the remaining tenth shall be added gradually.

The electrical resistance of each test piece shall be reduced according to its diameter, and shall be calculated for a temperature of 60 degrees Fahr. The length of such test piece shall not measure less than 1-30th part of a mile.

If the diameter of any test piece be disputed, the Receiving Officer may have such test piece weighed, and if the weight per mile be either more or less than the standard weight the resistance shall not be so high that, when multiplied by the weight per mile, it would exceed the constant shown in the annexed table, and in all cases where the product is greater than this constant, the Wire shall be liable to rejection.

The Wire shall be smoothly and uniformly coiled so that the eye of the coil shall not be less than 19 inches or more than 20 inches in diameter.

Every bundle of Wire shall be weighed separately and the weight (in English pounds avoirdupois), together with the name of the maker, stamped on the metallic label, which shall be provided by the Contractor, the label to be firmly fixed to the inner part of the bundle.

If, after examination of any particular parcel of Wire, 10 per cent. of such Wire does not meet the requirements of all or any of the foregoing stipulations and of the table, the whole of such 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.

*Weights.*—All weights shall be ascertained by weighing the Wire on the weighbridge scales or other weighing machine of the Corporation, and all such weights so ascertained by the Receiving Officer shall, for all purposes, be accepted by the parties of this Contract as correct and final and binding.

TABLE REFERRED TO IN THE FOREGOING SPECIFICATION.

										400 lb. W.re.	200 lb. Wire.
Weight per mile	..	..	..	..	..	..	..	..	lb.	400	200
"	"	..	..	..	..	..	..	..	min. lb.	380	180
"	"	..	..	..	..	..	..	..	max. lb.	420	210
Diameter	..	..	..	..	..	..	..	..	mils	170	120
"	..	..	..	..	..	..	..	..	min. mils	165	117
"	..	..	..	..	..	..	..	..	max. mils	174	123
Breaking weight	..	..	..	..	..	..	..	..	min. lb.	1,200	600
Number of twists in 6 inches	..	..	..	..	..	..	..	..	..	22	26
Number of twists in 6 inches for breaking weight not less than 1,230 lb.	..	..	..	..	..	..	..	..	..	21	24
Number of twists in 6 inches for breaking weight not less than 1,260 lb.	..	..	..	..	..	..	..	..	..	20	22
Resistance per mile of standard size at 60° Fahr.	..	..	..	..	..	..	..	..	ohms	13.32	26.64
Constant, being standard weight per mile by resistance per mile at 60° Fahr.	..	..	..	..	..	..	..	..	..	5328	5328
Weight of each piece of coil	..	..	..	..	..	..	..	..	min. lb.	90	50
Weight of each piece of coil	..	..	..	..	..	..	..	..	max. lb.	120	120
Weight of each bundle	..	..	..	..	..	..	..	..	min. lb.	90	100
Weight of each bundle	..	..	..	..	..	..	..	..	max. lb.	120	120

As regards Items Nos. 478 to 484, in the event of the material requiring to be imported into the State of Victoria after the order has been placed, the rates shall include wharfage dues of the Melbourne Harbour Trust; but to enable the Corporation to obtain exemption of wharfage, each Bill of Lading should be made out in favour 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. Officers placing orders to arrange for this to be done when quantity ordered warrants the saving of wharfage.

If required, J. R. Bell and Co. will deliver direct to Spotswood.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<b>WIRE (IRON AND STEEL).</b>						
<b>WIRE.</b>						
467	Wire, Iron, Charcoal, 8 to 16 gauge, as ordered, "Lysaghts" or "Rylands"	N.S.W.	20 cwt.	cwt.	1 0 9	E. Duckett & Sons
468	" " " Galvanized, 12 gauge, "Lysaghts"	"	5 "	"	0 19 0	J. R. Bell & Co.
Wire, Iron, Galvanized—						
469	6 gauge, "Rylands" .. .. .	"	8 "	"	0 17 7½	} Briscoe & Co. Ltd.
470	9 " "Rylands" .. .. .	"	10 "	"	0 15 4½	
471	10 " "Rylands" .. .. .	"	60 "	"	0 15 7½	
472	12 " "Rylands" .. .. .	"	5 "	"	0 17 7½	
473	14 " "Rylands" .. .. .	"	5 "	"	0 18 3	
474	15 " "Lysaghts" .. .. .	"	2 "	"	1 2 0	} J. R. Bell & Co.
475	16 " "Lysaghts" .. .. .	"	60 "	"	1 6 0	
476	Wire, Iron, Tinman's, 6 to 14 gauge, as ordered, "Lysaghts" ..	"	9 "	"	0 17 6	
477	" " Tinned, 8 to 18 gauge, as ordered.	"	6 "	"	..	Nil
†478	" Mild Steel, Black, 6 gauge, "Lysaghts"	N.S.W.	10 tons	ton	15 19 9	C. S. Green & Son
†479	" Steel Signal, Galvanized, 7/056 ..	U.K.	5 "	"	48 0 0	Baldwins & J.C.M. (Aust.) Pty. Ltd.
480	" Steel, Galvanized, Stranded, 7/144, to Specification, delivered at North Melbourne .. .. .	"	10 miles	"	..	Nil
481	Wire, Galvanized, Plain Fencing, 8 gauge, "Lysaghts" .. .. .	N.S.W.	100 tons	"	14 12 6	C. S. Green & Son
482	" " Barbed, Fencing, 12 gauge	Vict.	50 "	"	18 15 0	J. R. Bell and Co.
Wire, Iron or Steel, Galvanized, to Specification—						
483	400 lb. per mile .. .. .	U.K.	80 "	"	21 5 0	} Baldwins & J.C.M. (Aust.) Pty. Ltd.
484	200 lb. per mile .. .. .	"	30 "	"	19 17 6	
485-86	Nil.					

**BRICKS, BUILDING.**

(Various Districts.)

(1.7.1929 to 30.6.1930.)

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.

BENDIGO AND DISTRICT.						
†487	Bricks, Building, delivered into trucks at Bendigo Railway Station	Vict.	24,000	1,000	3 7 0	Bendigo Brick Co.
BALLARAT DISTRICT.						
†488	Bricks, Building, delivered into trucks at Ballarat Railway Station	„	500,000	do.	3 0 0	} J. Selkirk
MARYBOROUGH DISTRICT.						
†489	Bricks, Building, delivered into trucks at Ballarat Railway Station	„	50,000	do.	3 0 0	} Nil
NORTH-EASTERN DISTRICT — TOOLAMBA TO KYABRAM AND BRANCH LINES.						
†490	Bricks, Building, delivered into trucks at Railway Station	..	10,000	do.	..	} Nil
NORTH-EASTERN DISTRICT—BENALLA TO WODONGA AND BRANCH LINES.						
†491	Bricks, Building, delivered into trucks at Railway Station	..	10,000	do.	..	} Nil
492 and 493	Nil.					

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

## EXPLOSIVES AND AMMUNITION.

(1.7.1929 to 30.6.1930.)

As regards Item No. 494, a repacking charge of 3s. shall be made if ordered in less than case lots of 5,000.

As regards Item No. 495, if ordered in less than case lots of 300 coils, the rate shall be 9d. per coil

As regards Item No. 497, this Contract does not cover the requirements of the Superintending Engineer. His requirements are to be obtained as an agreement line, and the Contract provides that such purchases by the Department shall not be regarded as an infringement.

If deliveries be required by road in Melbourne or suburbs the additional cost of delivery shall be as follows:—

Item No. 494	Caps	In parcels of 100 to 400	2s. 6d. the lot.
		In parcels 500 and over	3s. 6d. the lot.
Item No. 496	Gelignite	2s. 9d. per case.	
Item No. 497	Blasting Powder	½d. per lb.	

As regards Items Nos. 494 and 497—if despatched by rail in cylinders—a charge of 1s. for each 50 lb. or part thereof of Blasting Powder, and 1s. for each 5,000 or part thereof of Caps will be made, and for Items No. 495 and 496, 1s. per cylinder.

Name of Manufacturers—

Item No. 494, Nobel Industries Ltd., London.  
Items Nos. 495 and 496, Nobel (Aust.) Ltd., Melbourne.  
Item No. 497, Curtiss and Harvey Ltd., London.  
Item No. 498, F. N. Browning.

McMicking and Co. advise that they have a storage magazine in South Melbourne where Explosives can be procured without delay should they be urgently required.

In the event of there being any reduction in the market price of the Explosives during the currency of the Contract the rates quoted shall be correspondingly reduced.

## EXPLOSIVES.

494	Caps, No. 6, in boxes of 100, delivered f.o.r. Laverton	U.K.	130 boxes	box	0 5 6	McMicking & Co.
495	Fuse, Single Thread, in coils of 8 yards	Vict.	60,000 coils	coil	0 0 8	Dalgety & Co. Ltd.
496	Gelignite, 50 per cent., delivered f.o.r. Laverton	"	190 cases	case of 50 lb. net	2 15 6	
497	Powder, Nitrate of Potash, Blasting, in 25-lb. or 50-lb. kegs, delivered f.o.r. Laverton	U.K.	19,000 lb.	100 lb.	4 3 4	McMicking & Co.
AMMUNITION.						
†498	Cartridges, Smokeless, .32 calibre, in boxes of 25 or 50— Auto. Pistol	Belgian	5,000	100	0 8 3	Alcock & Pierce Pty. Ltd.
499 to 500	Nil.					

## PHOTOGRAPHIC MATERIALS.

(1.7.1929 to 30.6.1930.)

501	Albums, 12 leaf, loose leaf, 9½" x 6½", No. 1, scroll type	Victoria	150	each	0 2 5	Kodak (Aust.) Pty. Ltd.
502	Chemicals, Pure— Acid, Acetic (Glacial)	"	20 lb.	lb.	0 2 11	Felton, Grimwade & Co. Pty. Ltd.
503	" Citric	U.K.	12 "	do.	0 1 8	H. B. Selby & Co.
504	" Pyrogallie, in 2-lb. bottles	"	6 "	do.	0 8 9	N. G. Clark
505	Alcohol, Absolute	Vict. & N.S.W.	14 "	do.	0 9 0	Felton, Grimwade & Co. Pty. Ltd.
506	Amidol, in 2-lb. bottles	France	30 "	do.	0 10 0	N. G. Clark
507	Ammonium Chloride	U.K.	3 "	do.	0 0 8	Felton, Grimwade & Co. Pty. Ltd.
508	" Iodide	"	3 "	do.	1 6 0	H. B. Selby & Co.
509	Amylum, Pulverised	U.S.A.	14 "	do.	0 0 6	Felton, Grimwade & Co. Pty. Ltd.
510	Barium Sulphide	U.K.	6 "	do.	0 1 10	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
PHOTOGRAPHIC MATERIALS—continued.						
Chemicals, Pure—continued.						
511	Cadmium, Bromide .. .. .	U.K.	3 lb.	lb.	0 7 0	H. B. Selby & Co.
512	" Iodide .. .. .	"	3 "	do.	1 5 0	
513	Chrome, Alum .. .. .	"	30 "	do.	0 0 5½	
514	Collodion, 2 per cent., enamel, in drums of 28 lb.	"	1 drum	drum	..	Felton, Grimwade & Co. Pty. Ltd.
515	Copper, Sulphate of .. .. .	S. Aust.	7 lb.	lb.	0 0 4	H. B. Selby & Co.
516	Dextrine, White .. .. .	U.K.	300 "	do.	0 0 5	
517	Ether, Sulphuric .. .. .	N.S.W.	5 "	do.	0 2 3	
518	Ferric, Ammonium Citrate (green) .. .. .	"	50 "	do.	..	Co. Pty. Ltd.
519	" " " (brown) .. .. .	U.K.	50 "	do.	0 3 11	Nil
520	Hydroquinone, in 2-lb. bottles .. .. .	France	6 "	do.	0 4 9	Felton, Grimwade & Co. Pty. Ltd.
521	Iodine (Resublimed) .. .. .	U.K.	2 "	do.	1 3 6	N. G. Clark
522	Iron, Sulphate of, Pure .. .. .	Victoria	100 "	do.	0 0 3	H. B. Selby & Co.
523	Mercury, Bichloride .. .. .	U.K.	4 "	do.	0 6 9	
524	Metol .. .. .	France	6 "	do.	0 10 6	
525	Opaque "Eastman's" No. 1 size .. .. .	U.S.A.	12 tubes	tube	0 0 11	Kodak (Aust.) Pty. Ltd.
526	Potassium, Bichromate .. .. .	U.K.	7 lb.	lb.	0 0 8	
527	" Bromide, in 2-lb. bottles .. .. .	"	15 "	do.	0 1 11	
528	" Ferricyanide .. .. .	"	70 "	do.	0 2 2	Felton, Grimwade & Co. Pty. Ltd.
529	" Iodide .. .. .	"	7 "	do.	0 18 6	H. B. Selby & Co.
530	" Metabisulphite .. .. .	"	12 "	do.	0 1 4	Felton, Grimwade & Co. Pty. Ltd.
531	" Permanganate .. .. .	Germany	3 "	do.	0 0 9	
532	Powder, Flash, Kotinic .. .. .	U.K.	10 "	do.	1 6 3	
533	Sheets, Flash, size No. 3 .. .. .	U.S.A.	12 pkts	pkt.	0 4 4	Kodak (Aust.) Pty. Ltd.
534	Soda, Hyposulphite .. .. .	Victoria	8 cwt.	cwt.	0 19 6	
535	" Sulphide .. .. .	U.K.	3 lb.	lb.	0 1 9	
536	Soda, Sulphite (Anhydrous) .. .. .	Victoria	300 "	do.	0 0 5	Felton, Grimwade & Co. Pty. Ltd.
537	" Carbonate .. .. .	"	28 "	do.	0 0 3½	
538	Oil of Cloves .. .. .	U.K.	2 "	do.	0 10 4	
Film—						
539	Cine, in 100-ft. rolls, "Kodak" .. .. .	U.S.A.	6 rolls	roll	1 4 0	Kodak (Aust.) Pty. Ltd.
540	Cut Par Speed, 4½" x 3½" .. .. .	Victoria	2 gross	gross	1 2 0	
541	" " 5" x 4" .. .. .	"	2 "	do.	1 16 0	
542	" " 9 c.m. x 12 c.m. .. .. .	"	2 "	do.	1 14 0	
543	Cut Super Speed, 4½" x 3½" .. .. .	"	2 "	do.	1 7 0	
544	" " 5" x 4" .. .. .	"	2 "	do.	2 3 0	
545	" " 6½" x 4½" .. .. .	"	6 "	do.	2 16 0	
546	" " 9 c.m. x 12 c.m. .. .. .	"	2 "	do.	2 0 0	
547	Panchromatic, Commercial—4½" x 3½", "Eastman" .. .. .	U.S.A.	1 "	do.	2 5 0	
548	6½" x 4½", "Eastman" .. .. .	"	1 "	do.	4 12 3	
549	9 c.m. x 12 c.m. .. .. .	"	1 "	do.	3 15 0	
Spools, Photographic Roll, 6 exposures—						
550	2½" x 3½" .. .. .	Victoria	15 rolls	roll	0 0 9½	Nil
551	2½" x 4½" .. .. .	"	120 "	do.	0 0 11	
552	3½" x 4½" .. .. .	"	30 "	do.	0 1 5	
553	3½" x 5½" .. .. .	"	120 "	do.	0 1 8	
554	5" x 4" .. .. .	"	20 "	do.	0 1 8	
555	Gelatine, Sheet, "Davis A. Grade" .. .. .	"	2 bales	bale	..	Nil
556	Glue, Sheet, "Trumpet" .. .. .	"	28 lb.	lb.	..	
Measures, Glass—						
557	2 oz. .. .. .	U.K.	3	each	0 0 9	Felton, Grimwade & Co. Pty. Ltd.
558	10 oz. .. .. .	"	6	do.	0 1 4	
559	20 oz. .. .. .	"	6	do.	0 2 0	
Mounting, Tissue, Dry—						
560	24" x 20" .. .. .	Victoria	1 ream	ream	5 15 0	Kodak (Aust.) Pty. Ltd.
561	8½" x 6½", in boxes of 1 gross .. .. .	"	5 gross	gross	0 5 4	
562	Mounts, 8 sheet, 31" x 25" Board, Rough edge, Grade CX., Brown, Grey or White, as ordered	"	500	100	3 5 0	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
PHOTOGRAPHIC MATERIALS—continued.						
†563	Mounts, 4 sheet, 30" x 24", Cream, White, or Brown, as ordered	Victoria	250	100	2 15 0	Kodak (Aust.) Pty. Ltd.
	Paper, Pearl Bromide, Single Weight, any surface ordered, "Austral"—					
564	25' long x 25" wide .. .. .	"	30 rolls	roll	1 0 7	
565	25' long x 30" wide .. .. .	"	6 "	do.	1 4 5	
566	5½" x 3½" .. .. .	"	1,000 sheets	1,000	2 8 4	
567	6½" x 4½" .. .. .	"	10,000 "	do.	3 16 10	
568	8½" x 6½" .. .. .	"	5,000 "	do.	6 18 9	
569	10" x 8" .. .. .	"	5,000 "	do.	9 19 6	
570	12½" x 10½" .. .. .	"	15 gross	gross	2 9 3	
571	15½" x 12½" .. .. .	"	10 "	do.	3 12 9	
572	18" x 16" .. .. .	"	2 "	do.	5 8 0	
573	20" x 16" .. .. .	"	1 "	do.	6 0 0	
574	25" x 14½" .. .. .	"	1 "	do.	6 15 9	
575	28" x 16" .. .. .	"	1 "	do.	8 7 8	
	Paper, Pearl Bromide, Double Weight, any surface ordered, "Austral"—					
576	25' long x 25" wide .. .. .	"	15 rolls	roll	1 3 10	
577	25' long x 30" wide .. .. .	"	6 "	do.	1 8 2	
578	6½" x 4½" .. .. .	"	1,000 sheets	1,000	4 8 6	
579	8½" x 6½" .. .. .	"	2,500 "	do.	7 19 9	
580	10" x 8" .. .. .	"	5,000 "	do.	11 9 6	
581	12½" x 10½" .. .. .	"	8 gross	gross	2 16 8	
582	15½" x 12½" .. .. .	"	10 "	do.	4 3 3	
583	18" x 16" .. .. .	"	2 "	do.	6 4 2	
584	20" x 16" .. .. .	"	1 "	do.	6 18 0	
585	25" x 14½" .. .. .	"	5 "	do.	7 16 0	
586	28" x 16" .. .. .	"	1 "	do.	9 12 9	
	Paper, Bromide, Double Weight—					Nil
587	Wellington Cream, Crayon, 12½" x 10½" ..		2 "	do.	..	
588	" " " " 15½" x 12½" ..		2 "	do.	..	
589	Old Master, Portrait, 12½" x 10½" ..	Victoria	2 "	do.	3 9 9	
590	" " " " 15½" x 12½" ..	"	2 "	do.	5 5 9	
591	" " " " 23" x 17" ..	"	1 "	do.	10 14 6	
592	Paper Pearl Bromide, Post; Cards ..	"	2,500	1,000	2 8 9	
	Plates, orthochromatic backed "Imperial Eclipse"—					
593	5" x 4" .. .. .	U.K.	5 gross	gross	3 9 7	
594	6½" x 4½" .. .. .	"	15 "	do.	4 4 0	
595	Plates, Lantern, "Austral", 3½" x 3½" ..	Victoria	4 "	do.	1 2 6	
	Plates, Photographic, Dry, Orthochromatic, backed, "Austral"—					
596	½" .. .. .	"	3 doz.	doz.	0 2 1	
597	½" .. .. .	"	12 "	do.	0 4 10	
598	½" .. .. .	"	20 "	do.	0 8 7	
	Plates, Photo., Mechanical, "Austral"—					Kodak (Aust.) Pty. Ltd.
599	8½" x 6½" .. .. .	"	20 "	do.	0 7 10	
600	12" x 10" .. .. .	"	12 "	do.	0 19 6	
601	15" x 12" .. .. .	"	12 "	do.	1 14 6	
	Plates, Process, Panchromatic, "Austral"—					
602	8½" x 6½" .. .. .	"	12 "	do.	0 10 1	
603	12" x 10" .. .. .	"	12 "	do.	1 4 4	
604	15" x 12" .. .. .	"	12 "	do.	2 3 1	
	Plates, backed, "Speedway Austral"—					
605	4½" x 3½" .. .. .	"	6 gross	gross	1 14 6	
606	5" x 4" .. .. .	"	6 "	do.	2 9 6	
607	6½" x 4½" .. .. .	"	5 "	do.	3 12 0	
	Plates, Panchromatic, Double Coated, "Wratten"—					
608	6½" x 4½" .. .. .	U.S.A.	6 doz.	doz.	0 7 8	
609	8½" x 6½" .. .. .	"	6 "	do.	0 13 10	
610 to 616	Nil.					



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

## TUBES AND FITTINGS.

(1.7.1929 to 30.6.1930.)

The estimated requirements are based on the full list price.

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.

All Tubes and Fittings to be of standard weight and of "Whitworth's" Gauge of Gas Threads.

## Name of Manufacturers—

Elder Smith and Co. Ltd.—The Scottish Tube Co. Ltd., Glasgow.

McPherson's Pty. Ltd.—Bergische Stahl Industrie, Germany.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
	Tubes, Wrought Iron, of approved thickness, in trade lengths, as ordered—					
617	Black, $\frac{1}{8}$ " and $\frac{1}{4}$ " diameter .. ..	U.K.	170	..	62%	Elder Smith & Co. Ltd.
617A	„ $\frac{3}{8}$ " to 3" diameter .. ..	„		..	66 $\frac{1}{2}$ %	
618	„ over 3" and up to 6" diameter .. ..	„	40	..	56 $\frac{1}{2}$ %	Stewarts & Lloyds (Aust.) Ltd.
619	Galvanized, $\frac{1}{8}$ " and $\frac{1}{4}$ " diameter .. ..	„	1,900	..	51%	Elder Smith & Co. Ltd.
619A	„ $\frac{3}{8}$ " to 3" diameter .. ..	„		..	55 $\frac{1}{2}$ %	
620	„ over 3" and up to 6" diameter .. ..	„	100	..	42 $\frac{1}{2}$ %	Stewarts & Lloyds (Aust.) Ltd.
621	(M) Galvanized, $\frac{1}{8}$ " and $\frac{1}{4}$ " diameter .. ..	„	2,000	..	46%	Elder Smith & Co. Ltd.
621A	(M) „ $\frac{3}{8}$ " to 3" diameter .. ..	„		..	50%	
622	(M) „ over 3" and up to 6" diameter .. ..	„	150	..	37 $\frac{1}{2}$ %	Stewarts & Lloyds (Aust.) Ltd.
623	Steam, screwed and socketed, $\frac{1}{8}$ " and $\frac{1}{4}$ " diameter .. ..	„	1,500	..	51 $\frac{1}{2}$ %	Elder Smith & Co. Ltd.
623A	„ screwed and socketed, $\frac{3}{8}$ " to 3" diameter .. ..	„		..	56 $\frac{1}{2}$ %	
624	„ screwed and socketed, over 3" and up to 6" diameter .. ..	„	200	..	43 $\frac{1}{2}$ %	Stewarts & Lloyds (Aust.) Ltd.
	Bends, Long Screws, and Springs, Wrought Iron, of approved thickness—					
625	Galvanized, up to 3" diameter .. ..	Victoria	150	..	40%	John Danks & Son Pty. Ltd.
626	„ over 3" and up to 6" diameter .. ..	„	20	..	..	Nil
	Fittings, Wrought Iron, of approved thickness—					
627	Black, up to 2" diameter .. ..	U.K.	200	..	45 $\frac{1}{2}$ %	Elder Smith & Co. Ltd.
628	„ 2 $\frac{1}{2}$ " and up to 6" diameter .. ..	„	5	..	41 $\frac{1}{2}$ %	
629	Galvanized, up to 2" diameter .. ..	„	550	..	37 $\frac{1}{2}$ %	
630	„ 2 $\frac{1}{2}$ " and up to 6" diameter .. ..	„	150	..	41 $\frac{1}{2}$ %	
631	Steam, up to 2" diameter .. ..	„	300	..	37 $\frac{1}{2}$ %	
632	„ 2 $\frac{1}{2}$ " and up to 6" diameter .. ..	„	100	..	41 $\frac{1}{2}$ %	
	Fittings, Malleable Iron, of approved thickness—					
633	Black, up to 2" diameter .. ..	Germany	50	..	68 $\frac{1}{2}$ %	McPherson's Pty. Ltd.
634	„ 2 $\frac{1}{2}$ " and up to 6" diameter .. ..	„	10	..	65%	
635	Galvanized, up to 2" diameter .. ..	U.K.	400	..	60%	John Danks & Son Pty. Ltd.
636	„ 2 $\frac{1}{2}$ " and up to 6" diameter .. ..	Germany	400	..	55%	McPherson's Pty. Ltd.
637	Steam, up to 2" diameter .. ..	„	10	..	68 $\frac{1}{2}$ %	
638	„ 2 $\frac{1}{2}$ " and up to 6" diameter .. ..	„	5	..	60%	
639 to 642	Nil					

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

## SCREWS AND SPLIT PINS.

(1.7.1929 to 30.6.1930.)

As regards Items Nos. 643 to 647, the tender is based on the existing discounts granted by Nettlefolds Pty. Ltd. to the wholesale trade, which are as follow :—

Items Nos. 643 to 646 .. .. . 10 per cent.

Item No. 647 .. .. . 12½ „

and in the event of there being any variation in the discounts granted by Nettlefolds Pty. Ltd., the rise or fall shall be to the Corporation's account. The amended rates will only apply to Screws ordered subsequent to the date of such amendment, and not to Screws ordered prior to such date.

As regards Items Nos. 659 to 661 with G. F. Sewell Pty. Ltd., the Coach Screws may be picked up by the departmental motor lorries at the Contractor's works, and 1s. 3d. per ton debited to the Contractor for the cost of cartage.

## Name of Manufacturer—

Items Nos. 643 to 649.—Nettlefolds Pty. Ltd., Sunshine, Victoria.

Items Nos. 662 and 663.—Baxter Screw and Rivet Works, England.

Items Nos. 672 to 675.—Duly and Hansford, New South Wales.

The estimated requirements are based on the full list price.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Discount off or percentage on Price List submitted by contractor and current during the contract period.	Name of Contractor.
	Screws, any sizes ordered—					
	Wood, Brass, countersunk—					
643	Up to and including 12 gauge .. .. .	Victoria	£480	..	+10%	E. Duckett & Sons
644	13 to 18 gauge .. .. .	„		..	+10%	
	Wood, Brass, round head—					
645	Up to and including 12 gauge .. .. .	„	£300	..	+10%	
646	13 to 18 gauge .. .. .	„		..	+10%	
647	Wood, Brass, raised head .. .. .	„	£30	..	+14%	
648	„ Iron, countersunk .. .. .	„	£1,000	..	-31½%	E. Duckett & Sons
649	„ „ round head, japanned .. .. .	„	£30	..	-31½%	
650	Stove Brass, round, countersunk or cheese head, as ordered, any trade sizes ordered, up to ½", "Nettlefolds" .. .. .	U.K. & Victoria	200 gross	..	-36%	E. Duckett & Sons
651	„ Iron, round or countersunk, as ordered, any trade sizes ordered, up to ½", "Nettlefolds" .. .. .	„	800 „	..	-38½%	
	Screws, Coach, Square head, Gimlet pointed—					
652	2" x ½" .. .. .	Victoria	2 cwt.	cwt.	2 14 0	McPherson's Pty. Ltd.
653	2½" x ½" .. .. .	„	2 „	do.	2 11 0	
654	3" x ½" .. .. .	„	2 „	do.	2 9 0	
655	5" x ½" .. .. .	„	9 „	do.	1 13 0	
656	Any lengths ordered x ½" .. .. .	„	3 „	do.	3 6 0	
657	Sizes other than Items 652 to 656 inclusive, in ½", ¾", or 1" diameter, as ordered .. .. .	„	10 „	do.	2 9 0	G. F. Sewell Pty. Ltd.
	Screws, Coach, Square head, Patent pointed—					
658	2½" x ½" x ½" head .. .. .	„	100 „	do.	2 5 0	
659	4½" x ¾" x 1½" head .. .. .	„	10 „	do.	1 14 0	
660	5" x ¾" x 1½" head .. .. .	„	35 „	do.	1 10 0	
661	Sizes other than Items 658 to 660 inclusive, as ordered .. .. .	„	35 „	do.	2 6 0	
	Screws, Set, Brass, Hex. Head—					
662	1" x ½" .. .. .	U.K.	3 gross	gross	1 6 0	McPherson's Pty. Ltd.
663	1" x ¾" .. .. .	„	3 „	do.	1 13 0	
	Screws, Set, Steel Black, Hex. Head—					
664	1" x ¾" .. .. .	Victoria	5 gross	gross	0 6 6	McPherson's Pty. Ltd.
665	1" x 1" .. .. .	„	3 „	do.	0 8 8	
666	1½" x 1" .. .. .	„	3 „	do.	0 9 2	
667	1½" x 1½" .. .. .	„	2 „	do.	0 9 8	
668	1½" x 2" .. .. .	„	2 „	do.	0 7 11	
669	2" x 1½" .. .. .	„	3 „	do.	0 8 6	
670	2" x 2" .. .. .	„	2 „	do.	1 11 0	
671	2½" x 1½" .. .. .	„	1 „	do.	1 3 0	
	Screws, Set, Steel Bright, Hex. Head—					
672	1" x ¾" .. .. .	N.S.W.	6 „	do.	0 13 11	McPherson's Pty. Ltd.
673	1½" x 1" .. .. .	„	1 „	do.	2 10 3	
674	1½" x 1½" .. .. .	„	1 „	do.	3 9 6	
675	2" x 1½" .. .. .	„	1 „	do.	3 12 9	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
SCREWS AND SPLIT PINS—continued.						
	Pins, Split—				Percentage of the Price List submitted with the tender and current during the period of Contract.	
676	Any sizes ordered up to and including $\frac{1}{4}$ "	Victoria	} £280	..	—52 $\frac{1}{2}$ %	} A. E. & F. Tame
677	Any sizes ordered over $\frac{1}{4}$ "	"		..	—47 $\frac{1}{2}$ %	
678	6" x $\frac{1}{4}$ " .. .. .	"		4 gross	*2 0 9	
679	7" x $\frac{1}{4}$ " .. .. .	"		4 " do.	*2 7 9	
680 to 685	Nil				* less 45%	

## NAILS, ETC.

(1.7.1929 to 30.6.1930.)

The tacks required under Items Nos. 769 and 771 are required for upholsterers' use and shall be clean.

J. R. Bell &amp; Co. will deliver at Spencer-street, Spotswood General Storehouse, or the North Melbourne Construction Storehouse, at Corporation's option.

Brads, Finishing, Cut, "Atlas" brand—												
686	$\frac{1}{4}$ "	..	..	..	..	U.S.A.	}	2 cwt.	cwt.	7 0 0	}	Briscoe & Co. Ltd.
687	$\frac{3}{8}$ "	..	..	..	..	"		do.	6 14 0			
688	$\frac{1}{2}$ "	..	..	..	..	"		do.	6 10 0			
689	$\frac{3}{4}$ "	..	..	..	..	"		do.	6 5 0			
690	1"	..	..	..	..	"		do.	6 5 0			
691	1 $\frac{1}{4}$ "	..	..	..	..	"		do.	5 15 0			
692	1 $\frac{1}{2}$ "	..	..	..	..	"		do.	5 8 0			
693	2"	..	..	..	..	"		do.	5 5 0			
694	Brads, Moulders', 4"					..	..	12 "	..	..	Nil	
Nails, Clout, Wire—												
695	$\frac{1}{4}$ "	bright	..	..	..	Vict.	}	1,100 lb.	do.	1 10 0	}	A. E. and F. Tame
696	$\frac{3}{8}$ "	"	..	..	..	"		do.	1 10 0			
697	$\frac{1}{2}$ "	"	..	..	..	"		do.	1 10 0			
698	1"	"	..	..	..	"		lb.	0 0 3			
699	1 $\frac{1}{2}$ "	"	..	..	..	"		do.	0 0 3			
700	$\frac{1}{4}$ "	galvanized x 12 gauge, in 14-lb. bags	..	..	..	"		cwt.	2 3 11			
701	1"	"	"	"	"	"		do.	2 3 11			
702	1 $\frac{1}{4}$ "	"	"	"	"	"		do.	2 3 11			
703	1 $\frac{1}{2}$ "	"	"	"	"	"	do.	2 3 11				
704	Nails, Chair, Oxidized					..	France	25,000	1,000	0 2 0		
Nails, Countersunk, Nettlefold's—												
705	2"	..	..	..	..	U.K.	1 cwt.	cwt.	2 12 6	}	Briscoe and Co. Ltd.	
706	2 $\frac{1}{4}$ "	..	..	..	..	"	2 "	do.	2 10 0			
707	Nails, Dog, 2 $\frac{1}{2}$ " x $\frac{5}{16}$ ", "Clyde" brand					..	1 "	do.	1 8 8			
708	Nails, Dog, 3" x $\frac{1}{4}$ ", "Clyde" brand					..	20 "	do.	1 8 5			
Nails, Horseshoe, full or half counter, "Capewell's"—												
709	Size 4	..	..	..	..	"	}	4 "	box of 25 lb.	1 0 6	}	Briscoe and Co. Ltd.
710	" 5	..	..	..	..	"		do.	0 19 0			
711	" 6	..	..	..	..	"		do.	0 17 6			
712	" 8	..	..	..	..	"		do.	0 15 6			
713	" 10	..	..	..	..	"		do.	0 15 6			
714	" 12	..	..	..	..	"		do.	0 15 6			
Nails, Roofing, Galvanized, Spring-head, in 1-cwt. cases—												
715	2"	..	..	..	..	Vict.	}	60 "	cwt.	2 0 0	}	A. E. and F. Tame
716	2 $\frac{1}{4}$ "	..	..	..	..	"		do.	2 0 0			
717	2 $\frac{3}{4}$ "	..	..	..	..	"		do.	2 0 0			
718	3"	..	..	..	..	"		do.	2 0 0			
719	Nails, Slaters', Copper, 1 $\frac{1}{2}$ "					..	"	23 lb.	lb.	0 1 8	James Walker	
Nails, Steel, Black—												
720	3"	..	..	..	..	U.K.	1 cwt.	cwt.	1 11 2	}	E. Duckett & Sons	
721	4"	..	..	..	..	"	60 "	do.	1 8 11			
722	5"	..	..	..	..	"	20 "	do.	1 7 11			
723	6"	..	..	..	..	"	160 "	do.	1 7 11			
724	7"	..	..	..	..	"	20 "	do.	1 7 11			
725	8"	..	..	..	..	"	6 "	do.	1 7 11			

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
NAILS, ETC.—continued.						
726	Nails, Steel, Galvanized—					
727	3" .. .. .		15 cwt.	cwt.		Nil
728	4" .. .. .			do.		
729	5" .. .. .			do.		
729	Nails, Wire, Brads, Flooring, 10 gauge, any lengths ordered	Vict.	1 "	do.	0 17 0	T. Mitchell & Co. Pty. Ltd.
	Nails, Wire, Diamond-headed, any lengths ordered—					
730	No. 4 .. .. .	"	550 "	do.	0 16 0	J. R. Bell & Co.
731	No. 5 .. .. .	"		do.	0 16 0	
732	No. 6 .. .. .	"		do.	0 16 0	
733	No. 7 .. .. .	"		do.	0 16 0	
734	No. 8 .. .. .	"		do.	0 14 0	
735	No. 9 .. .. .	"	120 "	do.	0 14 6	
736	No. 10 .. .. .	"		do.	0 15 0	
737	No. 11 .. .. .	"		do.	0 16 0	
738	No. 12 .. .. .	"	40 "	do.	0 16 6	
739	No. 13 .. .. .	"		do.	0 18 0	
740	No. 14 .. .. .	"	12 "	do.	0 19 6	
741	No. 15 .. .. .	"		do.	1 2 0	
	Nails, Wire, Flat Head—					
742	1" x 15 gauge .. .. .	"	2 "	do.	1 2 0	J. R. Bell & Co.
743	1½" x 15 gauge .. .. .	"	1 "	do.	1 2 0	
744	2" x 11 gauge .. .. .	"	1 "	do.	0 16 0	
745	1" x 14 gauge .. .. .	"	1 "	do.	0 19 6	
	Pins, Gimp, japanned, in 14-lb. bags—					
746	1" .. .. .	"	600 lb.	lb.	0 0 6	E. Duckett & Sons
747	1½" .. .. .	"		do.	0 0 6	
748	2" .. .. .	"		do.	0 0 6	
	Pins, Panel, countersunk, in 14-lb. bags—					
749	1" x 17 gauge .. .. .	"	10 cwt.	cwt.	2 5 0	
750	1½" x 17 gauge .. .. .	"		do.	2 5 0	
751	2" x 17 gauge .. .. .	"		do.	2 5 0	
752	1" x 16 gauge .. .. .	"		do.	1 12 0	
753	1½" x 16 gauge .. .. .	"		do.	1 12 0	
754	2" x 16 gauge .. .. .	"		do.	1 12 0	
755	1" x 16 gauge .. .. .	"		do.	1 12 0	
756	1½" x 16 gauge .. .. .	"		do.	1 12 0	
757	2" x 14 gauge .. .. .	"		do.	1 6 0	
	Staples, Galvanized Wire—					
758	1" .. .. .	"	2 "	do.	1 5 0	J. R. Bell & Co.
759	1½" .. .. .	"		do.	1 2 6	
760	2" .. .. .	"		do.	1 0 0	
761	1" .. .. .	"		do.	0 16 0	
*762	Staples, Galvanized Wire, for fencing, 1½" x 8 gauge	"	30 "	do.	0 16 0	
	Tacks, Copper—					
763	1" .. .. .	U.K.	224 lb.	lb.	0 1 6½	James Walker
764	1½" .. .. .	"		do.	0 1 6½	
765	2" .. .. .	"		do.	0 1 6½	
766	Tacks, coppered, double-pointed, ½"	Vict.	12 "	do.	0 0 7	J. G. Black Pty. Ltd.
	Tacks, Cut, blued, fine—					
767	1" .. .. .	U.K.	20 lb.	do.	0 0 8½	E. Duckett & Sons
768	1½" .. .. .	"	60 "	do.	0 0 5½	
769	1" for upholsterers .. .. .	"	220 "	do.	0 0 5½	
770	1½" for upholsterers .. .. .	"	450 "	do.	0 0 3½	
771	2" for upholsterers .. .. .	"	1,000 "	do.	0 0 3½	
772	1" .. .. .	"	200 "	do.	0 0 3½	
773	1½" .. .. .	"	30 "	do.	0 0 3½	
	Tacks, Cut, tinned, best—					
774	1" .. .. .	"	500 "	do.	0 0 5½	
775	1½" .. .. .	"		do.	0 0 5½	
776	2" .. .. .	"		do.	0 0 5	
777	1" .. .. .	"		do.	0 0 5	
to	Nil					
782						

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

## ARTISTS' COLOURS, ETC.

(1.7.1929 to 30.6.1930.)

Name of Manufacturer—

Items Nos. 783-789, 791, 792, 794-796, and 798, "Reeves."

Items Nos. 790 and 797, "Winsor and Newton."

	Colours—							
783	Blue, French .. .. .	..	..	U.K.	20 sticks	stick	0 0 10½	} Max Wurcker Ltd.
784	„ Prussian .. .. .	..	..	„	6 „	do.	0 0 10½	
785	Carmine .. .. .	..	..	„	6 „	do.	0 0 10½	
786	Crimson Lake .. .. .	..	..	„	6 „	do.	0 0 10½	
787	Cobalt .. .. .	..	..	„	6 „	do.	0 0 10½	
788	Gamboge .. .. .	..	..	„	6 „	do.	0 0 10½	
789	Green, Emerald .. .. .	..	..	„	6 „	do.	0 0 10½	
790	„ Hooker's, No. 1 .. .. .	..	..	„	6 „	half pan	0 0 5½	
791	Green, Hooker's, No. 2 .. .. .	..	..	„	6 „	stick	0 0 10½	
792	Grey, "Payne's" .. .. .	..	..	„	6 „	do.	0 0 10½	
793	Indian Ink .. .. .	..	..	China	16 oz.	oz.	0 1 3	
794	Sienna, Burnt .. .. .	..	..	U.K.	18 sticks	stick	0 0 10½	
795	Scarlet Lake .. .. .	..	..	„	6 „	do.	0 0 10½	
796	Vermilion .. .. .	..	..	„	72 sticks	do.	0 0 10½	
797	White, Chinese .. .. .	..	..	„	18 bottles	large bottle	0 0 11½	
798	Yellow Ochre .. .. .	..	..	„	6 sticks	stick	0 0 10½	
	Colours, Liquid, Indian Ink, "Higgins"—							
799	Black .. .. .	..	..	U.S.A.	800 bottles	bottle	0 0 11½	} W. and G. Dean Pty. Ltd.
800	Any other colours .. .. .	..	..	„	250 „	do.	0 0 11½	
*801	Palettes, in nests .. .. .	..	..	U.K.	6 nests	nest	0 3 2	Max Wurcker Ltd.
802	} Nil.							
804								

## STAMPS, ETC.

(1.7.1929 to 30.6.1930.)

The measurement of all Stamps shall be the "Die" measurement, and the maximum length of any letter shall not exceed ½ inch.

(H. C. Horton will supply any class of type as described and numbered in his printed catalogue.)

	Faces, Rubber, for Stamps, lettered—					
*805	" V.R., cancelled " .. .. .	Vict.	180	each	0 0 2½	} E. P. Briginshaw
*806	" Week-end " .. .. .	"	60	do.	0 0 2½	
*807	Goods Clean Receipt .. .. .	"	20	do.	0 0 8½	
*808	Goods more or less Receipt .. .. .	"	20	do.	0 0 8½	
	Refacing Rubber Stamps, including supply of new pad, all types—					
809	Oblong, up to 2", as ordered .. .. .	"	160 lines	line	0 1 0	} E. L. Morton Pty. Ltd.
810	" over 2" .. .. .	"	140 ins. of line	inch of line	0 0 8	
811	Circular or oval, and up to 1½", as ordered .. .. .	"	6	each	0 2 6	
812	" " and over 1½", as ordered .. .. .	"	20 ins.	½ inch	0 1 3	
	Stamps, Dating—					
*813	No. 1½ .. .. .	U.K.	880	each	0 0 8½	} Sands & McDougall Pty. Ltd.
*814	No. 2 .. .. .	"		do.	0 0 11	
	Stamps, Rubber, oblong, wooden handle; with wooden back, all types—					
*815	Up to 2", as ordered .. .. .	Vict.	1,000 lines	line	0 1 0	} E. L. Morton Pty. Ltd.
*816	Over 2", as ordered .. .. .	"	1,600 ins. of line	inch of line	0 0 8	
	Stamps, Rubber, circular or oval, as ordered, wooden handle with wooden backs, all types—					
† { 817	Up to 1½", as ordered .. .. .	"	20	each	0 2 9	} H. C. Horton
818	Over 1½", as ordered .. .. .	"	25 ins.	½ inch	0 0 10	
	Stamps, Rubber, self-inking—					
† { 819	1½" x ¾" .. .. .	"	40	each	0 6 9	} H. C. Horton
820	1½" x ¾" .. .. .	"	50	do.	0 7 6	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
STAMPS, ETC.—continued.						
	Stamps, Rubber, self-inking, nickel, oblong or round, as ordered—					
†821	Up to 2", as ordered .. ..	..	50	each	..	} Nil
†822	Over 2" to 3", as ordered .. ..	..		do.	..	
†823	Over 3" to 4", as ordered .. ..	..		do.	..	
	Pads, Self-inking, any colour ordered (mostly purple)—					
†824	No. 1 .. .. .	U.K.	48	do.	0 0 11	} J. Withers & Son Pty. Ltd.
†825	No. 2 .. .. .	"	50	do.	0 1 3	
†826	Nil					
to 830,						

## BOOKS, ETC.

(1.7.1929 to 30.6.1930.)

As regards Items Nos. 834 to 843, the paper used in the Copying Books shall be "Averil Star" brand.

Binders, Instantaneous—								
†831	Foolscap	.. .. .	U.K.	100	each	0 2 0	}	
†832	Large Quarto	.. .. .	"	10	do.	0 1 10		
†833	Small Quarto	.. .. .	"	10	do.	0 1 9		
Books—								
*834	Copying, Crown folio, 500 leaves paged,		Vict.	90	do.	0 8 11	}	Sands & McDougall Pty. Ltd.
	1/2 basil, with index		"		do.	0 7 5		
*835	" Crown Folio, 500 leaves not paged, and no index, 1/2 basil		"		do.	0 15 10		
*836	" Crown folio, 750 leaves paged,		"	72	do.	0 13 11		
	1/2 basil, with index		"		do.	0 18 9		
*837	" Crown Folio, 750 leaves not paged, no index, 1/2 basil		"	60	do.	0 17 4		
*838	" Large Post folio, 750 leaves paged, 1/2 basil, with index		"		do.	0 13 6		
*839	" Large Post Folio, 750 leaves not paged, no index, 1/2 basil		"	144	do.	0 12 10		
*840	" Large Post Folio, 750 leaves paged, 1/2 basil, no index		"		do.	1 6 9		
*841	" Large Post Folio, 750 leaves not paged, no index, 1/2 basil		"	6	do.	1 5 5		
*842	" Double Crown folio, 750 leaves paged, 1/2 basil, no index		"		do.	0 0 10 1/2		
*843	" Double Crown Folio, 750 leaves not paged, no index, 1/2 basil		"	700	do.	0 0 10 1/2	}	Redmond, Inglis & Co. Pty. Ltd.
*844	Foolscap, ruled, 1/2 cloth, 2 quire		"	350	do.	0 5 2		
†845	" ruled faint, 1/2 basil, 2 quire		"	50	do.	0 6 4	}	Spicers & Detmold Ltd.
*846	" " 1/2 basil, 3 quire		"	170	do.	0 7 3		
†847	" " 1/2 basil, 4 quire		"	50	do.	0 8 0		
*848	" " single or double cash, paged or folioed, as ordered,		"					
	1/2 basil, 4 quire							
*849	Indices, Foolscap, marble cover, one leaf to a letter		"	140	do.	0 0 5 1/2	}	Sands & McDougall Pty. Ltd.
*850	" " hand made, full basil, one leaf to a letter		"	10	do.	0 7 6		
*851	" " hand made, full basil, two leaves to a letter		"	400	do.	0 9 3		
*852	" " hand made, full basil, four leaves to a letter		"		do.	0 12 10		
*853	Manifold, 5" x 8", 100 leaves, in duplicate, two sheets of single-sided carbon paper to be supplied with each book		"	270 doz.	dozen	0 8 6	}	Redmond, Inglis & Co. Pty. Ltd.
*854	" 14 1/2" x 9", 100 leaves in trip- licate, two page index in front, three sheets single-sided car- bon paper to be supplied with each book		"	6 "	do.	3 0 0		
*855	Memo., Foolscap 8vo, 8 sheet, American cloth		"	10,000	do.	0 2 1 1/2		

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
Books— BOOKS, ETC.—continued.						
*856	Memo., Post 8vo, 18 sheet, full rexine ..	Vict.	900	dozen	0 7 6	Spicers & Detmold Ltd.
*857	„ Post 8vo, 18 sheet, full rexine indexed throughout	„	250	do.	0 10 6	
†858	Pocket, Metallic, Smith's 195 ..	„	60	each	0 3 0	Sands & McDougall Pty. Ltd.
†859	„ „ „ 197 ..	„	12	do.	0 3 9	
†860	„ Penny's No. 136 ..	„	12	do.	0 4 3	Spicers & Detmold Ltd.
†861	Refills for Penny's Pocket-books, No. 136	„	50	do.	0 0 4½	
†862	Shorthand, note ..	„	600	dozen	0 2 9	Redmond, Inglis & Co.
					Percentage off Published Price List current during period of this Contract. 35%	Sands & McDougall Pty. Ltd.
863	Diaries, Australian ..	„	£130	..		
†864	Oil Sheets, hand made— Foolscap folio ..	U.K.	25 doz. sheets	dozen sheets	0 1 2	Spicers & Detmold Ltd.
†865	Large Post folio ..	„	25 „	do.	0 1 9	
866 to 868	Nil.					

## BROWN PAPER, PASTE, SYSTEM AND TICKET BOARDS, ETC.

(1.7.1929 to 30.6.1930.)

The Brown Paper under Item No. 870 shall be supplied flat or folded as may be ordered.

The Manila Luggage Checks shall be supplied in tiers of four, measuring 4½ in. x 7½ in. over all, slitted to within ¼ in. of top and bottom of each check, perforated across 2½ in. from top, and packed in strawboard boxes each containing 1,000 checks.

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.

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

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

The Wood Pulp Boards shall caliper between .070 and .075.

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 colour, 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.

The rates shown for Wiggins, Teape, and A. Pirie (Export) Ltd. and Woolcott and Mackie Pty. Ltd. are based on existing sea freight from Great Britain current at the time of tendering, and in the event of there being any increase or decrease, and such increase or decrease is announced in the daily press, provided freight is arranged on the most satisfactory basis and documentary evidence of the amount of freight paid and that included in the tender is produced, the difference shall be to the Corporation's account. The Corporation will not be responsible for any additional sea freight except under these conditions.

Brown Paper, M. G.-Finish—						
†869	Quad. Imperial, Kraft, 58" x 45", 136 lb.	N.S.W.	10 reams	ream	2 3 8	} Australian Paper Manufacturers Ltd.
†870	Double Imperial, Kraft, 56 lb. ..	"	8 tons	ton	36 0 0	
†871	Kraft, 18" wide, 28 lb. to roll ..	"	12 rolls	do.	36 0 0	
†872	" in rolls, 30" wide, 80 lb. Double Imperial Substance	"	160 "	do.	36 0 0	
†873	Sulphite, 17" x 27", 80 lb.	Vict.	25 reams	ream	1 5 0	}
†874	" Double Imperial, 120 lb.	"	6 "	do.	1 17 6	
Manila Luggage Checks—						
†875	Checks, Luggage, Red ..	"	} 300,000	1,000	0 3 9	} Spicers & Detmold Ltd.
†876	" " Yellow ..	"		do.	0 3 9	
†877	" " Green ..	"		do.	0 3 9	
†878	" " Blue ..	"		do.	0 3 9	
†879	" " White ..	"		do.	0 3 9	
†880	" " Brown ..	"	"	do.	0 4 3	Fahle & Whiting.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.	
					£ s. d.		
BROWN PAPER, PASTE, SYSTEM AND TICKET BOARDS, ETC.— <i>continued.</i>							
Manila Luggage Checks— <i>continued.</i>							
*881	Checks, Luggage, 6½" x 2½", printed one side (four stereotypes supplied), two perforations. Washered. In gangs of four. Boxed in 1,000's .. .. .	Vict.	750,000	1,000	0 3 11	Sands & McDougall Pty. Ltd.	
Pasteboards, Surface Boards, &c.—							
†882	Royal Pasteboards, 20" x 25", 3 sheet, 21 lb.	"	750 gross	gross	0 9 0	Australian Paper Manufacturers Ltd.	
†883	" " 20" x 25", 6 sheet, 48 lb.	"	150 "	do.	1 1 0		
Royal Surface Boards, 20" x 25"—							
†884	Green .. .. .	U.K.	20 "	do.	0 17 0	Woolcott & Mackie Pty. Ltd.	
†885	Red .. .. .	"	30 "	do.	0 17 0		
†886	Yellow .. .. .	"	80 "	do.	0 17 0		
†887	Blue .. .. .	"	10 "	do.	0 17 0		
System Boards, 25½" x 30½"—"Glory"—							
†888	Buff, 138 or 140 lb. .. .. .	"	24 reams	ream	4 10 0	Wiggins, Teape & A. Pirie (Export) Ltd.	
†889	White, 138 or 140 lb. .. .. .	"	5 "	do.	4 10 0		
†890	Salmon or Blue, as ordered, 138 or 140 lb.	"	7 "	do.	4 10 0		
†891	Any standard colour ordered, 110 lb. .. .. .	"	6 "	do.	3 10 0		
†892	" " " 170 lb. .. .. .	"	10 "	do.	5 9 0		
†893	" " " 220 lb. .. .. .	"	5 "	do.	7 2 0		
Strawboard—							
†894	25" x 30", 12 oz., Plain .. .. .	Holland	15 cwt.	cwt.	0 14 11	E. H. Cooper Pty. Ltd.	
†895	25" x 30", 24 oz., Plain .. .. .	"	5 "	do.	0 15 11		
Pulp Board—							
†896	Royal Pulp Board four sheet, assorted light tints	Vict.	600 gross	gross	0 8 6	Australian Paper Manufacturers Ltd.	
*897	Wood Pulp Board, 34" x 44", 50's .. .. .	Scand.	80 cwt.	cwt.	1 4 6	E. H. Cooper Pty. Ltd.	
†898	Boards, Cloth Lined, 20" x 25", any standard colour ordered	U.K.	10 gross	gross	2 8 6	Wiggins, Teape & A. Pirie (Export) Ltd.	
†899	Board, Postcard, coated two sides, 22½" x 28½", 43 lb. per gross	"	60 "	do.	1 8 9		
Ticket Boards, 23" x 25"—							
†900	Buff .. .. .	Vict.	5 tons	ton	34 0 0	Australian Paper Manufacturers Ltd.	
†900A	Buff Shade .. .. .	"	5 "	do.	34 0 0		
†901	Blue .. .. .	"	5 "	do.	34 0 0		
†902	Cerise .. .. .	"	15 "	do.	34 0 0		
†903	Green .. .. .	"	3 "	do.	34 0 0		
†904	White .. .. .	"	70 "	do.	34 0 0		
†905	Yellow .. .. .	"	3 "	do.	34 0 0		
†905A	Salmon Shade .. .. .	"	5 "	do.	34 0 0		
*906	Manila Ticket Board— 22" x 30" .. .. .	"	16,000 sheets	100 sheets	4 10 0	Sands & McDougall Pty. Ltd.	
Labels—							
*907	Linen, Large, No. 5 .. .. .	"	25,000	1,000	0 10 2		
*908	" Small, 2½" x 2" .. .. .	"	5,000	do.	0 6 2		
†909	Manila, No. 5, in gangs of four and boxed	"	500,000	do.	0 2 7		
†910	" No. 6, in gangs of four and boxed	"	800,000	do.	0 2 11		
†911	" 7" x 3½", in gangs of four and boxed	"	150,000	do.	0 4 2		
912 to 916	} Nil.						



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

## SANITARY PAPER (TOILET).

(1.7.29 to 30.6.1930.)

†917	Paper, Sanitary, Toilet— Ordinary, in 10-oz. rolls, branded "Victorian Railways" on each sheet, perforated, "British No. 2," approx. 530 sheets per roll	Sweden and N.S.W.	750 dozen rolls	dozen rolls	0 2 8½	A. J. Wallace
†918	Oval, in cases of 100 rolls, branded "Victorian Railways" on each sheet, sheets perforated and rolls slotted, 8-oz. rolls, "Marillo," approx. 200 sheets per roll	"	100 cases	case	0 19 9	
919	Nil.					

## TYPEWRITING AND DUPLICATING MATERIALS, ETC.

(1.7.1929 to 30.6.1930.)

The Spools under Items 922 to 925 shall fit the machine for which the ribbon is ordered.

†920	Erasers, Circular	U.S.A.	2,600	doz.	0 1 10	Sands & McDougall Pty. Ltd.
†921	Ink, black, duplicating, 1st quality, No. 767 ... Ribbons, Typewriter, suitable for any Machines, as ordered, including the new model "Ideal" Machine—	"	500 lb.	lb.	0 13 6	Stott & Hoare Pty. Ltd.
†922	Copying, any colours ordered, "Hall Mark"	Vict.	1,200	doz.	0 15 0	Ramsay & Hall Pty. Ltd.
†923	Non-copying Record, Black, Regal	"	130	do.	0 14 0	G. B. Fry & Co.
†924	Copying, narrow, bi-coloured, any colours ordered, "Hall Mark"	"	18	do.	0 15 0	Ramsay & Hall Pty. Ltd.
†925	Copying, broad, plain, any colours ordered, "Hall Mark"	"	150	do.	1 1 0	
*926	Ribbons, Typewriter, Purple, for "Ditto" machines	U.S.A.	20	each	0 6 0	Spicers & Detmold Ltd.
†927	Pads, Ink	"	200	do.	0 0 10	Stott & Hoare Pty. Ltd.
†928	Stencils, Foolscap Folio, Indestructible, No. 860, Dermatype	"	500 qrs.	quire	0 15 0	
†928A	Stencils, Foolscap Folio, Indestructible, "Reflex"	Vict.		do.	0 7 6	Ramsay & Hall Pty. Ltd.
†929	Stencils, Foolscap Quarto, Indestructible, No. 861, Mimeotype Sundries for Model F2B Addressograph machine—	U.S.A.	250 qrs.	do.	0 13 4	Stott & Hoare Pty. Ltd.
*930	Plates	U.K.	20,000	1,000	2 0 0	Spicers & Detmold Ltd.
*931	Frames	"	10,000	do.	7 0 0	
*932	Ribbons, Purple	"	50	each	0 5 6	
†933	Varnish, Obliterating, for dry stencils, in 1-oz. bottles	Vict.	200 oz.	btle.	0 1 6	Abbott, Goodman & Co.
†934	" Obliterating, for wet stencils, in approx. 1½-oz. bottles	U.S.A.		do.	0 1 3	Stott & Hoare Pty. Ltd.
935 to 938	Nil.					

## PRINTERS' INK, ETC.

(1.7.1929 to 30.6.1930.)

The Ink to be supplied under Item No. 939 shall not contain any Resin Oil Varnish.

The Ink to be supplied under Items Nos. 939 to 949 shall be high grade quality and dense colours.

The ink to be supplied under Items Nos. 950 to 960 shall be true as regards quality and colour to sample submitted by corporation.

†939	Ink, Printing, Letterpress— Black	Vict.	800 lb.	lb.	0 2 0	S. Cooke Pty. Ltd.
†940	Blue	"	20 "	do.	0 2 9	R. Collie & Co. Pty. Ltd.
†941	Royal Blue	N.S.W.	30 "	do.	0 4 0	F. T. Wimble & Co. Ltd.
†942	Bronze Blue, in 1-lb. tins	Vict.	20 "	do.	0 3 6	S. Cooke Pty. Ltd.
†943	Mid Green	"	10 "	do.	0 3 6	R. Collie & Co. Pty. Ltd.

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
PRINTERS' INK, ETC.—continued.						
Ink, Printing, Letterpress—continued.						
†944	Emerald Green .. .. .	N.S.W.	30 lb.	lb.	0 4 6	F. T. Wimble & Co. Ltd.
†945	Red .. .. .	"	240 "	do.	0 2 6	
†946	Photo Brown—Dark Shade .. .. .	"	50 "	do.	0 4 0	
†947	Violet .. .. .	Vict.	6 "	do.	0 5 6	R. Collie & Co. Pty. Ltd.
†948	Violet, Copying .. .. .	"	4 "	do.	0 11 0	
†949	Quick drying, 1st quality Half-tone Black Ink, Flat, Smooth, Ticket Printing, Letterpress—	N.S.W.	1,500 "	do.	0 3 3	F. T. Wimble & Co. Ltd.
*950	Blue .. .. .	Vict.	10 "	do.	0 3 0	S. Cooke Pty. Ltd.
*951	Blue, Pale .. .. .	"	60 "	do.	0 3 0	
*952	Brown .. .. .	"	10 "	do.	0 3 0	
*953	Buff .. .. .	"	10 "	do.	0 3 0	R. Collie & Co. Pty. Ltd.
*954	Cerise .. .. .	"	450 "	do.	0 3 0	
*955	Green .. .. .	"	450 "	do.	0 3 0	
*956	Maroon .. .. .	"	10 "	do.	0 3 0	S. Cooke Pty. Ltd.
*957	Orange .. .. .	"	450 "	do.	0 3 0	
*958	Red .. .. .	"	80 "	do.	0 3 6	
*959	Violet .. .. .	"	100 "	do.	0 3 0	S. Cooke Pty. Ltd.
*960	Yellow .. .. .	"	10 "	do.	0 3 0	
Ink, Printing, for posters—						
†961	Black .. .. .	N.S.W.	30 "	do.	0 0 9	F. T. Wimble & Co. Ltd.
†962	Blue, permanent .. .. .	"	12 "	do.	0 1 9	
†963	Red .. .. .	"	60 "	do.	0 1 10	
†964	Glue, Rubberised or Flexible .. .. .	Vict.	150 "	do.	0 0 11	R. Collie & Co. Pty. Ltd.
†965	Dryers, Cobalt Elastic or other approved quality	"	30 "	do.	0 5 0	S. Cooke Pty. Ltd.
†966	Dryers, Paste .. .. .	N.S.W.	6 "	do.	0 2 4	F. T. Wimble & Co. Ltd.
†967	Solution, Lye, in 1-gallon jars .. .. .	Vict.	10 gals.	gallon	0 3 6	R. Collie & Co. Pty. Ltd.
†968	" Roller Wash, in 4-gallon tins .. .. .	N.S.W.	200 gals.	do.	0 3 0	F. T. Wimble & Co. Ltd.
†969	Staples, for Bostitch or Star Machine, as ordered	"	200,000	1,000	..	Nil
†970	Varnish, Letterpress, Lowering .. .. .	Vict.	50 gals.	gallon	0 6 9	R. Collie & Co. Pty. Ltd.
†971	Wire, Stapling, 4 lb. to coil, 22-gauge .. .. .	"	400 lb.	lb.	0 0 7½	Henry Drake
†972	" " " 19-gauge .. .. .	"	100 "	do.	0 0 7	
†973	" " " 21-gauge .. .. .	"	56 "	do.	0 0 7	
*974	Manilla—Oiled, Cylinder, 45" wide, in rolls of approximately 100 lb.	"	600 "	do.	..	Nil
975 to 978	Nil.					

**CONDUIT PIPE AND FITTINGS.**  
(1.7.1929 to 30.6.1930.)

†979	Pipe, Conduit, Plain, enamelled— ½" .. .. .	Vict.	10,000 feet	100 ft.	0 5 7	Edison Swan Elec. Co. Ltd.
†980	¾" .. .. .	"	2,500 "	do.	0 8 5	Australian General Elec. Co. Ltd.
†981	1" .. .. .	"	500 "	do.	0 13 3	Edison Swan Elec. Co. Ltd.
†982	1½" .. .. .	"	200 "	do.	1 4 11	Noyes Bros. (Melb.) Pty. Ltd.
†983	Pipe, Conduit, Screwed, enamelled— ½" .. .. .	U.K.	10,000 "	do.	0 9 5	
†984	¾" .. .. .	"	50,000 "	do.	0 12 9	Edison Swan Elec. Co. Ltd.
†985	1" .. .. .	"	6,000 "	do.	1 0 7	Noyes Bros. (Melb.) Pty. Ltd.
†986	1½" .. .. .	"	5,000 "	do.	1 9 11	
†987	2" .. .. .	"	3,500 "	do.	2 5 0	Australian General Elec. Co. Ltd.
†988	2½" .. .. .	"	3,000 "	do.	3 14 6	British General Elec. Co. Ltd.
†989	Fittings, Conduit, Plain— Elbows, ½" " Ring Grip" .. .. .	Vict.	2 gross	doz.	0 1 9½	Noyes Bros. (Melb.) Pty. Ltd.
†990	" ¾" " " " .. .. .	"	36 "	do.	0 1 9½	
†991	" 1" " " " .. .. .	"	2 "	do.	0 2 4½	British General Elec. Co. Ltd.
†992	" 1½" " " " .. .. .	"	2 "	do.	0 5 2	
†993	" 2" " " " .. .. .	U.K.	3 "	do.	0 13 11	Noyes Bros. (Melb.) Pty. Ltd.

Item No.	Description	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
CONDUIT PIPE AND FITTINGS—continued.						
Fittings, Conduit, Plain—continued.						
994	Tees, $\frac{1}{2}$ " "Ring Grip" .. ..	Vict.	2 gross	doz.	0 2 3 $\frac{1}{2}$	British General Elec. Co. Ltd.
995	" " " " " " " " "	"	12 "	do.	0 2 3 $\frac{1}{2}$	
996	" " " " " " " " "	"	1 "	do.	0 2 11 $\frac{1}{2}$	
997	Sleeves, $\frac{1}{2}$ " " " " " " " " "	"	2 "	do.	0 1 5 $\frac{1}{2}$	
998	" " " " " " " " "	"	5 "	do.	0 1 5 $\frac{1}{2}$	
999	" " " " " " " " "	"	1 "	do.	0 1 10 $\frac{1}{2}$	
Fittings, Conduit, Screwed—						
1000	Bends, $\frac{1}{2}$ " .. ..	"	1 "	do.	0 2 0	Edison Swan Elec. Co. Ltd.
1001	" " $\frac{1}{2}$ " .. ..	"	4 "	do.	0 2 5	
1002	" " 1" .. ..	U.K.	1 "	do.	0 5 11	Noyes Bros. (Melb.) Pty. Ltd.
1003	" " $1\frac{1}{2}$ " .. ..	Vict.	1 "	do.	0 8 3	Edison Swan Elec. Co. Ltd.
1004	" " $1\frac{1}{2}$ " .. ..	"	1 "	do.	0 12 9	
1005	" " 2" .. ..	"	1 "	do.	1 8 3	Noyes Bros. (Melb.) Pty. Ltd.
1006	Elbows, $\frac{1}{2}$ " .. ..	U.K.	6 "	do.	0 1 6	
1007	" " $\frac{1}{2}$ " .. ..	Vict.	24 "	do.	0 1 11 $\frac{1}{2}$	Edison Swan Elec. Co. Ltd.
1008	" " 1" .. ..	"	2 "	do.	0 2 10	
1009	" " $1\frac{1}{2}$ " .. ..	"	2 "	do.	0 6 3	Australian General Elec. Co. Ltd.
1010	" " $1\frac{1}{2}$ " .. ..	"	2 "	do.	0 10 6	
1011	" " 2" .. ..	N.S.W.	2 "	do.	1 1 9	Noyes Bros. (Melb.) Pty. Ltd.
1012	" " 1" Inspection .. ..	U.K.	1 "	do.	0 5 5	
1013	" " $1\frac{1}{2}$ " .. ..	"	1 "	do.	0 10 9	Australian General Elec. Co. Ltd.
1014	" " $1\frac{1}{2}$ " .. ..	"	1 "	do.	0 17 2	
1015	" " 2" .. ..	"	1 "	do.	1 9 2	Noyes Bros. (Melb.) Pty. Ltd.
1016	Sleeves, $\frac{1}{2}$ " .. ..	"	5 "	do.	0 1 2	
1017	" " $\frac{1}{2}$ " .. ..	"	15 "	do.	0 1 2	Edison Swan Elec. Co. Ltd.
1018	" " 1" .. ..	"	3 "	do.	0 1 9	
1019	" " $1\frac{1}{2}$ " .. ..	Vict.	1 "	do.	0 3 6	British General Elec. Co. Ltd.
1020	" " $1\frac{1}{2}$ " .. ..	"	2 "	do.	0 4 5	
1021	" " 2" .. ..	"	1 "	do.	0 6 4	Edison Swan Elec. Co. Ltd.
1022	Tees, $\frac{1}{2}$ " .. ..	"	1 "	do.	0 2 0 $\frac{1}{2}$	
1023	" " $\frac{1}{2}$ " .. ..	"	3 "	do.	0 2 6	Australian General Elec. Co. Ltd.
1024	" " 1" .. ..	"	1 "	do.	0 5 3	
1025	" " $1\frac{1}{2}$ " .. ..	"	1 "	do.	0 7 6	British General Elec. Co. Ltd.
1026	" " $1\frac{1}{2}$ " .. ..	"	1 "	do.	0 12 0	
1027	" " 2" .. ..	"	1 "	do.	0 19 6	Edison Swan Elec. Co. Ltd.
1028	Boxes, Junction, $\frac{1}{2}$ " 3 way .. ..	"	500	each	0 0 4 $\frac{1}{2}$	
1029	Crampets, $\frac{1}{2}$ " .. ..	U.K.	4 gross	dozen	0 0 2 $\frac{1}{2}$	British General Elec. Co. Ltd.
1030	" " $\frac{1}{2}$ " .. ..	"	4 "	do.	0 0 2 $\frac{1}{2}$	
1031	Saddles, $\frac{1}{2}$ " .. ..	Vict.	2 "	do.	0 0 1	Edison Swan Elec. Co. Ltd.
1032	" " $\frac{1}{2}$ " .. ..	"	140 "	dozen	0 0 0 $\frac{1}{2}$	
1033	" " $\frac{1}{2}$ " .. ..	"	72 "	do.	0 0 1	Australian General Elec. Co. Ltd.
1034	" " 1" .. ..	"	15 "	gross	0 2 5 $\frac{1}{2}$	
1035	" " $1\frac{1}{2}$ " .. ..	"	8 "	do.	0 4 5	British General Elec. Co. Ltd.
1036	" " $1\frac{1}{2}$ " .. ..	"	3 "	do.	0 5 8 $\frac{1}{2}$	
1037	" " 2" .. ..	"	2 "	dozen	0 0 8	Edison Swan Elec. Co. Ltd.
1038	Lock Nuts, $\frac{1}{2}$ " .. ..	"	2 "	do.	0 0 6 $\frac{1}{2}$	
1039	" " $\frac{1}{2}$ " .. ..	"	2 "	do.	0 0 7	Noyes Bros. (Melb.) Pty. Ltd.
1040	" " 1" .. ..	U.K.	3 "	do.	0 1 0	
1041	" " $1\frac{1}{2}$ " .. ..	N.S.W.	3 "	do.	0 1 7 $\frac{1}{2}$	Australian General Elec. Co. Ltd.
1042	" " $1\frac{1}{2}$ " .. ..	"	3 "	do.	0 2 11	
1043	" " 2" .. ..	"	2 "	do.	0 3 8	Nil
1044 to 1048						

**ELECTRIC CABLES AND WIRES.**

(1.7.1929 to 30.6.1930.)

**SPECIFICATION FOR STRANDED COPPER CABLE, DROPPER WIRE, AND CONTACT WIRE.—**  
*Item Nos. 1049 to 1055.*

**A. Dropper Wire and Stranded Cables.** *Specification of British Engineering Standards Association and Australian Commonwealth Engineering Standards Association apply.*—Except where definitely stated to the contrary, the A.C.E.S.A. Specification No. C.41-1927T shall apply to the Copper Dropper Wire and Stranded Copper Cables in this Contract as detailed in clause B1, 2, 4 and 5, and the B.E.S.A. Specification No. 125/1924 shall apply to items 3 and 6 of clause B.

**B. Sizes of Cables and Wires.**—The size of the Cables and Wires entering into this contract shall be as follows:—

- (1) 0.035 square inch Hard Drawn Stranded Copper Cable made up of 7 wires each of .080 inch diameter (7/.080-inch).
- (2) 0.05 square inch Hard Drawn Stranded Copper Cable made up of 7 wires each of .097-inch diameter (7/.097-inch).
- (3) 0.125 square inch Hard Drawn Stranded Copper Cable made up of 7 wires each of .152-inch diameter (7/.152 inch).
- (4) 0.25 square inch Hard Drawn Stranded Copper Cable made up of 37 wires each of .093-inch diameter (37/.093-inch).
- (5) 0.375 square inch Hard Drawn Stranded Copper Cable made up of 37 wires each of .116-inch diameter (37/.116-inch).
- (6) 0.193-inch diameter Hard Drawn Copper Dropper Wire.
- (7) 0.25 square inch Hard Drawn Copper Contact Wires as per Drawing No. F. 1460.

**C. 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 E (2) and clause F 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. The outer layer shall be wound in the direction as shown on Drawing No. F. 1586.

For these purposes the Contractor shall give appropriate notice in writing of the readiness of the Cables or Wires for inspection, measurement, weighing, or test at the works.

**D. Testing after Delivery.**—The Dropper Wire 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.

**E. Contact Wire General.**—(1) The Hard-drawn Copper Contact Wire shall have a conductivity of not less than 98 per cent. of the Mathieson's standard for Hard-drawn Copper, and the Wire shall not vary from the specified dimensions by more than 1 per cent. (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 No. F.1460.

**F. Contact Wire Joints.**—The joints in the Wire shall be carefully made with silver before the Wire is drawn.

**G. Contact Wire Tensile Test.**—Minimum Breaking Stress—20 tons per square inch.

**Elongation.**—The elongation shall not exceed 3 per cent. in a length equal to 35 times the greater dimensions of the Wire when a load equal to 60 per cent. of the breaking stress is gradually applied.

**H. Contact Wire Bending Test.**—The Wire shall be fixed in a vice between clamps bell mouthed 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.

**I. 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.

**J. 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.

## ELECTRIC CABLES AND WIRES—continued.

k. *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.

l. *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.

m. *How Delivered*.—The Copper Dropper Wire, Stranded Cable, and Contact Wire shall be delivered on drums (the numbers of 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 inches x 15 inches x  $\frac{1}{4}$  inch 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 $\frac{1}{2}$  inches high.

n. *Delivery*.—The Copper Dropper Wire, Stranded Cable, and Contact Wire shall be provisionally delivered, deposited where and as directed at the Corporation's Overhead Construction Storehouse, Laurens-street, North Melbourne, and delivery shall be deemed to be provisional until such time as the Comptroller of Stores shall certify that the whole of the service complied 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.

## SPECIFICATION FOR HARD-DRAWN COPPER WIRE FOR TELEGRAPH AND TELEPHONE PURPOSES.—Items Nos. 1075 and 1076.

The Wire shall be Hard-drawn Copper Wire—weight, 150 and 200 lb. per mile respectively.

Each coil shall be drawn in one continuous piece without joints, and weigh not less than 100 lb. and not more than 130 lb. The Wire shall in all other respects be manufactured in accordance with the British Engineering Standards Specification No. 174.

Time for delivery will be allowed for importation of the Hard-drawn Bare Cable, Annealed Bare Cable, Stranded Copper Cable, Contact Wire, Copper Dropper Wire, and Bare Copper Wire, and the rates tendered do not include wharfage dues of the Melbourne Harbour Trust, and in order that the Corporation may receive exemption from wharfage dues, the Contractor should be requested to have the Bill of Lading for each shipment made out in favour 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.

The Contract with the British Insulated Cables Limited is subject to the following conditions:—

As regards Items Nos. 1049/1058, 1066, 1069/1074a, and 1081/1083, the material will be manufactured by Metal Manufacturers Pty. Ltd., Port Kembla; New South Wales and the rates tendered, excluding Items Nos. 1081/1083, are for orders of not less than 100 lb. of any size at a time. It will often expedite delivery if standard drums and packages are ordered. A schedule giving these standards is shown below. Special cutting always entails delay.

As regards Items Nos. 1081/1083, orders shall not be placed for lots of less than 10 lb. of any one size.

The prices for all the foregoing items are based on £94 per ton for electrolytic copper wire bars and are to be varied up or down by one-tenth of a penny per pound of copper for each complete seventeen shillings and sixpence or part thereof, by which the price of wire bars published in the *Argus* on the date of receipt of an order is greater than £94 14s. 11d. or less than £93 17s. 6d. per ton respectively. If no price of wire bars is published on any day the price last published earlier shall apply. In the case of a dispute concerning the published price of wire bars, the figures advised by the Australian Mines and Metals Association as last received by them from the London Metal Exchange prior to the day of the receipt of the order shall be mutually accepted.

As regards Items Nos. 1075 and 1076, the material will be manufactured by Metal Manufacturers Pty. Ltd., and is packed in coils of 75 to 140 lb. The material should be ordered in these sized coils and in minimum quantities of 2 tons. The rates for these items are based on the market price of E.C. wire Bars at £94 per ton, and the rate to be paid for any material delivered will be determined by the market price of E.C. Wire Bars on the date that the order is received by the Contractor. The contract rate shall be varied £1 for every £1 alteration in the market price of E.C. Wire Bars. Alterations of less than £1 will be charged pro rata.

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

## ELECTRIC CABLES AND WIRES—continued.

Times for delivery :—

Item Nos. 1049/1058, 1066, 1073, 1074, 1075 and 1076 in four to five weeks.

## SCHEDULE OF STANDARD PACKAGES.

## BARE COPPER WIRE AND CABLE, AND D.C.C. WIRE.

Item No.	Size.	Standard Packing.		Weight per 1000 yards.
		Length.	Net Weight.	
		yards.	lb.	lb.
1049 .. ..	7/-080	2,330	976	414
1050 .. ..	7/-097	1,585	976	608
1051 .. ..	7/-152	650	976	1,500
1052 .. ..	37/-093	865	2,580	2,963
1053 .. ..	37/-116	540	2,580	4,700
1054 .. ..	0.193 dia.	as specified		
1055 .. ..	0.25 sq. in.			
1056 .. ..	91/-044	1,925	3,170	1,650
1057 .. ..	91/-059	2,104	6,230	2,960
1058 .. ..	37/-064	1,820	2,580	1,403
1066 .. ..	49/26 S.W.G.	2,300	343	149
1069 .. ..	7/-036	5,760	488	84
1070 .. ..	7/-048	3,240	488	149
1071 .. ..	7/-064	3,640	976	265
1072 .. ..	7/-080	2,330	976	414
1073 .. ..	19/-052	2,765	1,328	475
1073a .. ..	7/-097	1,585	976	608
1074 .. ..	19/-064	3,640	2,656	720
1074a .. ..	7/-104	1,380	976	699
1081 .. ..	No. 13 S.W.G.	..	56	..
1082 .. ..	No. 14 S.W.G.	..	56	..
1083 .. ..	No. 15 S.W.G.	..	56	..

As regards Items Nos. 1059 and 1060 with the British General Electric Co. Ltd., time for delivery, 16 weeks, will require to be allowed.

As regards the contract with the Australian General Electric Co. Ltd., the Corporation agrees that sufficient time shall be allowed the Contractor to import stocks to meet initial orders.

As regards Items Nos. 1049/1055 and 1075 and 1076, arrangements are to be made at the time of placing of orders for inspection to be conducted by the Permanent Testing Officer of the Postmaster-General's Department, resident at Port Kembla, and to forward certificate of inspection quoting the Order Number to the Comptroller of Stores.

A copy of each order and such other information as is called for should be forwarded to the State Engineer of the Postal Department, Sydney, N.S.W., with a request that this be done at the Department's expense, simultaneously with the placing of an order. A copy of this schedule has already been forwarded.

	Cable, Hard-drawn Stranded Copper—									
1049	0.035 sq. in. (7/-080)	..	..	N.S.W.	3,000 feet	lb.	0	1	4.4	British Insulated Cables Ltd.
1050	0.05 sq. in. (7/-097)	..	..	"	80,000 "	do.	0	1	4.4	
1051	0.125 sq. in. (7/-152)	..	..	"	10,000 "	do.	0	1	4.4	
1052	0.25 sq. in. (37/-093)	..	..	"	15,000 "	do.	0	1	4.4	
1053	0.375 sq. in. (37/-116)	..	..	"	7,500 "	do.	0	1	4.4	
1054	Wire, 0.193" dia., Dropper, Hard-drawn, Copper	..	..	"	40,000 "	do.	0	1	4.4	
1055	Wire, 0.25 sq. in., Contact, Hard-drawn, Copper (Drawing F.1460)	..	..	"	50,000 "	do.	0	1	4.4	
	Cable, Annealed, Bare—									
1056	91/-044"	..	..	"	5 miles		0	1	7.9	
1057	91/-059"	..	..	"	2 "	do.	0	1	5.9	
1058	37/-064"	..	..	"	2 "	do.	0	1	4.9	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ELECTRIC CABLES AND WIRES—continued.						
1059	Cable, 26 pairs, .0235 minimum, .024 maximum, braided, indoor, enamel double silk and cotton	U.K.	2,000 yards	1,000 yards	115 0 0	British General Electric Co. Ltd.
1060	Cable, 15 pairs, .0235 minimum, .024 maximum, braided, indoor, enamel double silk and cotton	"	1,000 "	do.	70 0 0	
1061	Cable, 1 Pair, .0235 minimum, .024 maximum, lead covered, enamel and cotton	"	2,000 "	do.	..	
	Cable, bitumen, insulated, taped and braided, 660 V. Grade—				..	Nil
1062	7/.036" .. .. .	"	1,000 "	do.	..	
1063	7/.044" .. .. .	"	1,000 "	do.	..	
1064	7/.064" .. .. .	"	2,000 "	do.	..	
1065	19/.052" .. .. .	"	1,000 "	do.	..	
*1066	Cable, Copper, Flexible, bare, 49/26 S.W.G.	N.S.W.	3,000 "	do.	17 5 0	British Insulated Cables Ltd.
	Cable, twin, metal sheathed, suitable for house wiring, "Craigpark" V.I.R. 600 Megohm Grade—					
†1067	1/.044" .. .. .	U.K.	100 "	100 yards	1 12 3	Australian General Electric Co. Ltd.
†1068	3/.036" .. .. .	"	1,400 "	do.	3 1 6	
	Cable, Hard-drawn Copper, Bare—					
1069	7/.036" .. .. .	N.S.W.	2,000 lbs.	lb.	0 1 5.1	British Insulated Cables Ltd.
1070	7/.048" .. .. .	"	2,500 "	do.	0 1 4.7	
1071	7/.064" .. .. .	"	30,000 "	do.	0 1 4.4	
1072	7/.080" .. .. .	"	500 "	do.	0 1 4.4	
†1073	19/.052" .. .. .	"	500 "	do.	0 1 4.9	
†1073A	7/.097" .. .. .	"	500 "	do.	0 1 4.4	
†1074	19/.064" .. .. .	"	500 "	do.	0 1 4.4	
†1074A	7/.104" .. .. .	"	500 "	do.	0 1 4.4	
	Wire, Copper, Bare, to Specification—					
1075	150 lb. per mile .. .. .	"	10 tons.	ton	136 10 0	
1076	200 lb. per mile .. .. .	"	90 "	do.	136 0 0	
	Wire, Copper, D.C.C.—					
1077	No. 8, S.W.G. .. .. .	U.K.	50 lb.	lb.	0 1 4	British General Electric Co. Ltd.
1078	" 10, " .. .. .	"	50 "	do.	0 1 4½	
1079	" 11, " .. .. .	"	50 "	do.	0 1 5½	
1080	" 12, " .. .. .	"	50 "	do.	0 1 5.8	
1081	" 13, " .. .. .	N.S.W.	200 "	do.	0 1 8.9	
1082	" 14, " .. .. .	"	130 "	do.	0 1 8.9	British Insulated Cables Ltd.
1083	" 15, " .. .. .	"	250 "	do.	0 1 8.9	
1084	" 16, " .. .. .	U.K.	200 "	do.	0 1 8½	British General Electric Co. Ltd.
1085	" 17, " .. .. .	"	80 "	do.	0 1 9	
1086	" 18, " .. .. .	"	200 "	do.	0 1 8	
1087	" 27, " .. .. .	"	8 "	do.	..	Nil
1088	" 28, " .. .. .	"	6 "	do.	..	
†1089	Wire, Enamelled, Insulated, 24 S.W.G.	U.K.	20 "	do.	0 1 4.9	British General Electric Co. Ltd.
†1090	" German Silver, 14 S.W.G.	"	10 "	do.	0 2 3	Johnson & Phillips Ltd.
†1091	" " " 16 S.W.G.	"	4 "	do.	0 2 5	
†1092	" " " 18 S.W.G.	"	4 "	do.	..	Nil
†1093	" Nichrome, 27 B. & S. gauge	U.K.	4 "	do.	0 14 0	British General Electric Co. Ltd.
†1094	" " 20 B. & S. gauge	"	4 "	do.	0 9 0	
†1095	" " 18 B. & S. gauge	"	4 "	do.	0 8 0	
†1096	" Office, Twin Flexible, 23/.0076	"	5,000 yards	100 yards	1 0 8	Australian General Electric Co. Ltd.
†1097	" " " 40/.0076	"	5,000 "	do.	1 8 2	
†1098	" Asbestos Covered, Twin Flexible, 40/.0076	U.S.A.	500 "	do.	1 13 0	British General Electric Co. Ltd.
†1099	" Asbestos Covered, three Core, Flexible, 40/.0076	"	200 "	do.	2 10 0	

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
<b>ELECTRIC CABLES AND WIRES—continued.</b>						
†1100	Wire, Workshop Flexible, Twin, 23/·0076	U.K.	4,000 yards	100 yards	1 8 8	Noyes Bros. (Melb.) Pty. Ltd.
†1101	" " " " 40/·0076	"	3,000 "	do.	1 16 1	
1102	Wire, Cab, Tire, Flexible—					
1103	3 Core, approx. 16/·012 .. ..	"	250 "	do.	3 19 8	
1104	3 Core, approx. 11/·012 .. ..	"	1,000 "	do.	3 1 10	
1105	Twin, approx. 16/·012 .. ..	"	250 "	do.	3 0 11	Nil
1106	Twin, approx. 11/·012 .. ..	"	3,000 "	do.	1 17 11	
†1106	Wire, Telephone Bell, any colors ordered, No. 20 S.W.G.	"	2 miles	mile	..	Nil
	Wire, Tinned, Copper, Fuse—					
1107	16 gauge .. ..	U.K.	100 lb.	lb.	0 1 10	Noyes Bros. (Melb.) Pty. Ltd.
1108	18 " .. ..	"		do.	0 1 10	
1109	20 " .. ..	"		do.	0 1 11	
1110	22 " .. ..	"		do.	0 1 11	
1111	26 " .. ..	"		do.	0 2 0	
1112	28 " .. ..	"		do.	0 2 1	
1113	29 " .. ..	"		do.	0 2 1	
1114	30 " .. ..	"		do.	0 2 2½	
1115	32 " .. ..	"		do.	0 2 5	
1116	33 " .. ..	"		do.	0 2 7	
1117	36 " .. ..	"		do.	0 3 0	Siemens (Aust.) Pty. Ltd.
1118	38 " .. ..	"		do.	0 3 3	
1119	40 " .. ..	"		do.	0 3 6	
1120	Wire, Vulcanized, I.R., taped and braided, twisted pairs, No. 20 S.W.G. .. ..	"	8,000 yards	100 yards	0 18 1	
1121 to 1130	Nil.					

**ELECTRICAL FITTINGS.**

(1.7.1929 to 30.6.1930.)

**SPECIFICATION FOR SHEET MICA.—Item No. 1249.**

*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 2,000 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.

The Shunts and Leads, Item No. 1271, shall be suitable for use with Weston D.C. Ammeters, Model 269-280, calibrated over a range of 20-0-80 amps. The Shunts shall be mounted on an insulated base, and shall be adjusted for a drop of 75 milli-volts between terminals with 80 amps flowing. The length of the leads shall be 20 feet each, and resistance of a pair in series shall be 1803 ohms at 12·8 degrees centigrade.

The British General Electric Co. Ltd., Lawrence and Hanson Electric Co. Ltd., O. H. O'Brien and Australian General Electric Co. Ltd., should be allowed sufficient time to meet initial orders.

†1131	Adaptors, Bayonet .. ..	U.K.	500	each	0 0 4	Falk, Stadelmann & Co. Ltd.
†1132	Batteries, 3-cell, 7" long .. ..	Victoria	3,800	"	0 1 3	Widdis Diamond Dry Cells Pty. Ltd.
†1133	Batteries, 2-cell, 3·5 volts .. ..	"	300	"	0 0 10	
†1134	Blocks, Base, 9" x 3" .. ..	"	180	doz.	0 3 5·1	Edison Swan Electric Co. Ltd.
†1135	Blocks, Base, 6" x 3" .. ..	"	550	"	0 2 7½	
†1136	Blocks, Round, 3" diameter, Mission Finish	"	3,000	"	0 0 10½	W. G. Sleightholm Edison Swan Electric Co. Ltd.
†1137	Cloth, Empire, 10 mils .. ..	U.K.	100 yds.	yard	0 1 5	
†1138	Compound, Chatterton's .. ..	"	30 lb.	lb.	0 2 1	



Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ELECTRICAL FITTINGS—continued.						
†1139	Compound, Box, Berry's No. 2. H/T ..	U.K.	1 cwt.	lb.	0 0 3½	British General Electric Co. Ltd.
*1140	Connectors, without plugs for train lighting	"	60	each	..	See Item 1142
†1141	Connectors, complete, with plugs D & S, 212E, cat. 21,335	"	80	"	0 12 9	H. Rowe & Co. Pty. Ltd.
*1142	Connectors, without plugs ..	Victoria	30	"	0 7 6	Metro. Switchgear Pty. Ltd.
	Contacts, Knife Switch—					
†1143	30 amp. ..	"	10 doz.	doz.	..	Nil
†1144	60 amp. ..	"	10 "	"	..	Nil
†1145	100 amp. ..	"	12 "	"	..	Nil
	Ebonite, Sheet—					
1146	1½" thick. Approx. 6 oz. to 1 sq. ft. ..	Victoria	400 lb.	sq. ft.	0 1 5½	Dunlop Perdreau Rubber Co. Ltd.
1147	1½" " " 12 " " " " " " " "	"		"	0 1 11½	
1148	1½" " " 1 lb. 2 oz. to sq. ft. ..	"		"	0 2 6	
1149	1½" " " 1 lb. 9 oz. " " " " " "	"		"	0 3 0½	
1150	1½" " " 1 lb. 14 oz. " " " " " "	"		"	0 3 6½	
1151	1½" " " 2 lb. 4 oz. " " " " " "	"		"	0 4 0½	
1152	1½" " " 2 lb. 11 oz. " " " " " "	"		"	0 4 7½	
1153	1½" " " 3 lb. 2 oz. " " " " " "	"		"	0 5 2½	
†1154	1½" " " 3 lb. 7 oz. " " " " " "	"		"	0 6 7½	
1155	1½" " " 3 lb. 14 oz. " " " " " "	"		"	0 7 1	
1156	1½" " " 4 lb. 4 oz. " " " " " "	"		"	0 7 8½	
1157	1½" " " 4 lb. 12 oz. " " " " " "	"		"	0 8 2½	
1158	1½" " " 5 lb. 2 oz. " " " " " "	"		"	0 8 8½	
1159	1½" " " 5 lb. 6 oz. " " " " " "	"		"	0 9 3	
1160	1½" " " 5 lb. 12 oz. " " " " " "	"		"	0 9 10	
1161	1½" " " 6 lb. 4 oz. " " " " " "	"		"	0 10 4	
	Ebonite, Rod—					
1162	1½" " " " " " " " " " " " "	U.K.	4 lb.	lb.	0 2 11	Siemens (Aust.) Pty. Ltd.
1163	1½" " " " " " " " " " " " "	"	8 "	"	0 2 11	
1164	1½" " " " " " " " " " " " "	"	8 "	"	0 2 11	
1165	1½" " " " " " " " " " " " "	"	6 "	"	0 2 11	British General Electric Co. Ltd.
†1166	1½" (unfrazed finish) " " " " " " " "	"	8 "	"	0 2 9	
†1167	1½" " " " " " " " " " " " "	"	4 "	"	0 2 9	
1168	1½" approx. 1½ ft. to 1 lb. " " " " " "	Victoria	10 "	lin. ft.	0 1 5½	Dunlop Perdreau Rubber Co. Ltd.
†1169	1½" " " 1½ " " " " " " " "	"	30 "	"	0 1 10½	
†1170	2" " " 7 inches to 1 lb. " " " " " "	"	24 "	"	0 2 6½	
1171	Electrolyte, Dry, renewal for Edison Battery	"	6 cwt.	cwt.	..	Nil
1172	" " " " Ni-fe Battery	"		"	..	
	Fibre, Red, Sheet—					
1173	1½" " " " " " " " " " " " "	U.S.A.	100 lb.	lb.	0 1 3	O. H. O'Brien
1174	1½" " " " " " " " " " " " "	"	100 "	"	0 1 5	
†1175	1½" " " " " " " " " " " " "	"	100 "	"	0 1 6	
1176	1½" " " " " " " " " " " " "	"	100 "	"	0 1 10	
1177	1½" " " " " " " " " " " " "	"	100 "	"	0 2 2	
	Fibre, Grey, Sheet—					
†1178	1½" to 3" thick, as ordered. "Diamond" ..	U.K.	1,000 "	"	0 1 2½	British General Electric Co. Ltd.
†1179	1½" " " " " " " " " " " " "	"	1,000 "	"	0 1 3½	Mica & Insulating Supplies Co.
	Fibre, Red, Rod—					
†1180	1½" "Diamond" " " " " " " " "	"	250 lb.	"	0 9 0	British General Electric Co. Ltd.
†1181	1½" " " " " " " " " " " " "	"		"	0 6 0	
1182	1½" " " " " " " " " " " " "	U.S.A.		"	0 4 11	
1183	1½" " " " " " " " " " " " "	"		"	0 4 4	O. H. O'Brien
1184	1½" " " " " " " " " " " " "	"		"	0 4 10	
†1185	1½" " " " " " " " " " " " "	"		"	0 6 6	
1186	1½" " " " " " " " " " " " "	"		"	0 9 0	
1187	2" " " " " " " " " " " " "	"		"	1 4 0	
	Fingers, Control (drop forged copper)—					
*1188	1½", double hole " " " " " " " "	Victoria	2 gross	gross	11 14 0	Metro. Switchgear Pty. Ltd.
*1189	1", double hole " " " " " " " "	"	2 "	do.	12 12 0	
*1190	1", single hole " " " " " " " "	"	2 "	do.	13 4 0	
†1191	Fittings, Lavatory, "Stones Type," No. 2361, oxy copper finish	U.K.	120	each	0 11 0	Coates & Co. Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ELECTRICAL FITTINGS—continued,						
†1192	Fuses, Ironclad type— 15 amp., 250 volt, "M.E.M." ..	U.K.	144	each	0 1 11	Siemens (Aust.) Pty. Ltd.
†1193	15 amp., 500 volt, "G.E.C. Salford" ..	"	144	do.	0 3 0	British General Electric Co. Ltd.
†1194	30 amp., 500 volt, B.W. ..	N.S.W.	100	do.	0 3 8	Noyes Bros. (Melb.) Pty. Ltd.
†1195	60 amp., 500 volt, "G.E.C. Salford" ..	U.K.	80	do.	0 8 6	British General Electric Co. Ltd.
†1196	Fuses, Factory type, with bases— 5 amp., No. 515 L.U., Kantark ..	"	900	do.	0 0 10 <sup>5</sup> / <sub>12</sub>	Noyes Bros. (Melb.) Pty. Ltd.
†1197	15 amp., No. 210 P., Kantark ..	"	600	do.	0 1 8	
†1198	15/20 amp., 15 M.U., Type B, Kantark ..	"	24	do.	0 1 7 <sup>1</sup> / <sub>4</sub>	
†1199	30 amp., 30 M.U., Type B, Kantark ..	"	140	do.	0 2 5 <sup>1</sup> / <sub>4</sub>	
†1200	50 amp., 60 M.U., Type C, Kantark ..	"	36	do.	0 7 5	Lawrence & Hanson Electric Co. Ltd.
†1201	100 amp., 100 M.U., Kantark ..	"	24	do.	0 11 2	Noyes Bros. (Melb.) Pty. Ltd.
†1202	200 amp. ..	"	24	do.	..	Nil
†1203	Fuses, Factory type, without bases, 100 amp.	"	36	do.	..	
†1204	Fuses, metal covered, oxidized, 5 amp.	"	36	do.	..	
†1205	Fuses, Cartridge— 12 amp. ..	"	20	do.	..	Siemens (Aust.) Pty. Ltd.
†1206	15 amp., 250 volt, "Zed" ..	U.K.	20	do.	0 0 6 <sup>1</sup> / <sub>2</sub>	
†1207	20 amp., 250 volt, "Zed" ..	"	20	do.	0 0 8 <sup>1</sup> / <sub>2</sub>	
†1208	30 amp., 500 volt ..	"	20	do.	..	
†1209	30 amp., 600 volt ..	"	20	do.	..	Nil
†1210	35 amp., 500 volt ..	"	50	do.	..	
†1211	35 amp., 600 volt ..	"	20	do.	..	
†1212	50 amp., 500 volt ..	"	20	do.	..	
†1213	50 amp., 600 volt ..	"	20	do.	..	Nil
†1214	60 amp., 500 volt ..	"	20	do.	..	
†1215	60 amp., 600 volt ..	"	20	do.	..	
†1216	80 amp., 500 volt ..	"	36	do.	..	
†1217	80 amp., 600 volt ..	"	20	do.	..	H. Rowe & Co. Pty. Ltd.
†1218	Holders, Portable Hand Lamp ..	U.K.	220	do.	0 5 6	
*1219	" E.S. weatherproof, Cat. No. 9366 ..	U.S.A.	500	do.	0 0 8	Australian Gen. Elec. Co. Ltd.
*1220	Insulators, Porcelain— Button, 1 <sup>1</sup> / <sub>4</sub> " x 1 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>8</sub> " ..	Japan	8,000	doz.	0 0 7 <sup>1</sup> / <sub>2</sub>	Edison Swan Elec. Co. Ltd.
*1221	Clamp, 1 <sup>1</sup> / <sub>4</sub> ", G.E. 9236 and G.E. 9360 ..	U.S.A.	100	do.	2 4 0	Australian Gen. Elec. Co. Ltd.
*1222	" 1 <sup>1</sup> / <sub>4</sub> ", G.E. 9238 and G.E. 9360 ..	"	100	do.	2 9 0	
*1223	" 2", G.E. 9244 and G.E. 9359 ..	"	100	do.	3 12 0	British Gen. Elec. Co. Ltd.
*1224	Cleat, small ..	Japan	700	do.	0 0 9	
*1225	Pin Type, 6,600 volt, groove top, brown ..	Victoria	100	each	0 2 5	Australian Porcelain Insulator Co. Pty. Ltd.
*1226	Shackle, 6,600 volt, brown ..	"	36	doz.	2 14 6	British Gen. Elec. Co. Ltd.
*1227	Tube, Inlet, 6" x <sup>3</sup> / <sub>4</sub> " inside diameter, bent ..	Japan	50	do.	0 2 0	Noyes Bros. (Melb.) Pty. Ltd.
†1228	Tube, Inlet, 5" x <sup>3</sup> / <sub>4</sub> " inside diameter, bent ..	"	60	do.	0 2 7	British Gen. Elec. Co. Ltd.
†1229	Tube, Inlet, 3 <sup>1</sup> / <sub>4</sub> " x <sup>3</sup> / <sub>8</sub> " inside diameter, bent ..	"	50	do.	0 1 6	Noyes Bros. (Melb.) Pty. Ltd.
†1230	Tube, Inlet, 2 <sup>1</sup> / <sub>4</sub> " x <sup>1</sup> / <sub>2</sub> " inside diameter, straight ..	"	50	do.	0 1 0	British Gen. Elec. Co. Ltd.
*1231	Knob, for No. 18 to 16 S.W.G. Wire, 2 <sup>1</sup> / <sub>4</sub> " x 1 <sup>1</sup> / <sub>2</sub> " ..	"	200	do.	0 1 9	
*1232	Pin Type Low Tension, grooved top, Conference 600/0.-2 ..	"	300	do.	0 7 6	Australian Gen. Elec. Co. Ltd.
*1233	Pin Type Low Tension, small ..	W.A.	50	do.	0 5 0	J. Joseph
*1234	Shackle, large, 3 <sup>1</sup> / <sub>4</sub> " x 4" x <sup>7</sup> / <sub>8</sub> " hole ..	Japan	800	do.	0 6 3	Australian Gen. Elec. Co. Ltd.
*1235	Shackle, small, 1 <sup>1</sup> / <sub>4</sub> " x 2 <sup>1</sup> / <sub>2</sub> " x <sup>3</sup> / <sub>4</sub> " hole ..	"	1,400	do.	0 2 7	British Gen. Elec. Co. Ltd.
*1236	Pin, Conference Type, No. 600/0.3 ..	W.A.	100	do.	1 0 0	J. Joseph
*1237	Pin, Conference Type, No. 600/0.1 ..	Japan	250	do.	0 4 11	Noyes Bros. (Melb.) Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ELECTRICAL FITTINGS—continued.						
	Leatheroid, in rolls 50" to 54" wide, approx. 50 lb. weight—					
1238	5 mils .. .. .	U.S.A.	250 lb.	lb.	0 1 3	O. H. O'Brien
1239	10 mils .. .. .	"		do.	0 1 3	
1240	15 mils .. .. .	"		do.	0 1 3	
1241	20 mils .. .. .	"		do.	0 1 3	
1242	24 mils .. .. .	"		do.	0 1 3	
1243	30 mils .. .. .	"		do.	0 1 3	
1244	35 mils .. .. .	"		do.	0 1 3	
1245	40 mils .. .. .	"		do.	0 1 3	
†1246	Micanite Sheet, moulding, approx. 24" x 40", Amberoid—20 mils	U.K.	30 "	do.	0 3 3	British Gen. Elec. Co. Ltd.
†1247	Micanite Sheet, Flexible, 40" x 40" x 15 mils	"	30 "	do.	0 3 4	
1248	" Tube, $\frac{5}{8}$ " dia. inside x $\frac{3}{4}$ " outside ..	"	160 feet	foot	0 0 9 $\frac{1}{2}$	
†1249	Mica Sheet, 6" x 4"—					
†1250	Phlogopite, Clear Amber, to Specification	"	20 lb.	lb.	1 5 0	W. G. Sleightholm
	Clear .. .. .	India	20 "	do.	0 16 9	Mica and Insulating Supplies Co.
†1251	Mica Sheet, 4" x 4", amber spotted ..	S.A.	12 "	do.	0 14 1	Aust. Gen. Elec. Co. Ltd.
†1252	"Morganite" Slabs, C.M.3, 5 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " x $\frac{1}{2}$ " ..	U.K.	12	each	0 8 8	H. Rowe & Co. Pty. Ltd.
1253	Pins, Fusible, "Hecla," for electric glue pots	Victoria	24	do.	0 0 2	Edison Swan Elec. Co. Ltd.
	Plugs, Wall—					
†1254	2-pin, 5 amp., G.A.C. .. .. .	U.K.	250	dozen	0 15 2	Warburton Franki (Melb.) Ltd.
†1255	2-pin, 10 amp., S.685, Bakelite Side Entry	"	300	each	0 2 9	British Gen. Elec. Co. Ltd.
*1256	3-pin, earthing, 5 amp., Crabtree 5162 ..	"	100	do.	0 2 5	Noyes Bros. (Melb.) Pty. Ltd.
*1257	3-pin, earthing, 10 amp., Crabtree 5172 ..	"	100	do.	0 3 8	
†1258	Plugs and Switches, combined, 5 amp., Crabtree 1052, S.E.	"	100	do.	0 3 4 $\frac{1}{2}$	
†1259	Plugs and Switches, combined, 10 amp., Crabtree 1552, S.E.	"	25	do.	0 8 2	
†1260	Presspahn, 32" x 24" x 10 mils .. .. .	"	120 sheets	lb.	0 1 0	O. H. O'Brien
*1261	Receptacles, for series lights, Cat. No. 25711	U.S.A.	20	each	0 4 2	Australian Gen. Elec. Co. Ltd.
*1262	" base, E.S., Cat. G.E. 50717 .. .. .	"	120	do.	0 1 1	
	Reflectors, Vitreous Enamelled—					
1263	14" B.C. Holder, "Benjamin No. 4362" ..	U.K.	40	do.	0 9 4	H. Rowe & Co. Pty. Ltd.
1264	15" B.C. Holder, "Benjamin No. 4662" ..	"	36	do.	0 13 2	
1265	18" E.S. Holder, "Benjamin No. 4673" ..	"	30	do.	0 16 1	
1266	Elliptical Angle type, "Benjamin No. 4782	"	24	do.	0 14 11	
†1267	Reflectors, Enamelled Iron, 10" x 1 $\frac{1}{2}$ " hole ..	Germany	500	do.	0 0 6 $\frac{1}{2}$	Noyes Bros. (Melb.) Pty. Ltd.
†1268	" Shade, Opal, 10" x 1 $\frac{1}{2}$ " hole .. .. .	Japan	800	do.	0 0 7 $\frac{1}{2}$	
†1269	Roses, Ceiling, 2-plate, vitreous .. .. .	Continent	1,300	do.	0 0 3 $\frac{1}{2}$	
†1270	" " 3-plate, vitreous .. .. .	"	60	do.	0 0 4 $\frac{1}{2}$	Lascelles Parrington Ltd.
*1271	Shunts and Leads, in sets of 1 shunt and 2 leads, to specification	Victoria	50 sets	set	0 17 6	Metro. Switchgear Pty. Ltd.
	Sockets—					
†1272	Batten, Bayonet, with shade ring .. ..	U.K.	100	each	0 0 6	Lawrence & Hanson Elec. Co. Ltd.
*1273	" " (car lighting) .. .. .	"	80	do.	..	Nil
†1274	Bayonet, keyless shade carrier, $\frac{1}{4}$ " "Reltak" .. .. .	U.K.	25	do.	0 0 6	Noyes Bros. (Melb.) Pty. Ltd.
†1275	Bayonet, keyless shade carrier, $\frac{3}{8}$ " "Reltak" .. .. .	"	600	do.	0 0 6	
†1276	Bayonet, keyless shade carrier, and cord grip, "Reltak" .. .. .	"	2,000	do.	0 0 6 $\frac{1}{2}$	
*1277	Strips, Porcelain, for Battery Boxes ..	Victoria	1,500	do.	0 0 6 $\frac{1}{2}$	Sunshine Porcelain Pot-teries Pty. Ltd.
	Switches, Ironclad type, three-pole—					
†1278	10 amp., "B.W." .. .. .	N.S.W.	20	do.	0 6 9	Noyes Bros. (Melb.) Pty. Ltd.
†1279	20/30 amp., "B.W." .. .. .	"	10	do.	0 9 6	
†1280	50 amp., "M.E.M." 360A .. .. .	U.K.	6	do.	0 16 6	Siemens (Aust.) Pty. Ltd.

Item No.	Description.	Country of Manufacture.	Estimated Requirements.	Rate per—	Rate.	Name of Contractor.
					£ s. d.	
ELECTRICAL FITTINGS—continued.						
	Switches, Double-pole, tumbler—					
†1281	5 amp., G.E. 986 .. .. .	U.S.A.	100	each	0 3 0	Australian Gen. Elec. Co. Ltd.
†1282	10 amp., G.E. 986 .. .. .	"	150	do.	0 3 0	
†1283	20 amp., G.E. 1687 .. .. .	"	24	do.	0 6 9	
	Switches, Single-pole, tumbler—					
†1284	5 amp., A.0191, "Phlatta" .. .. .	U.K.	2,000	do.	0 1 0½	Edison Swan Elec. Co. Ltd.
†1285	10 amp., A.0192, "Phlatta" .. .. .	"	144	do.	0 1 11	
†1286	Switches, Two-way, 5 amp., A.0221, "Phlatta" .. .. .	"	72	do.	0 1 10½	
†1287	" Ceiling type, 5 amp., "Crabtree 921" .. .. .	"	300	do.	0 2 11½	Noyes Bros. (Melb.) Pty. Ltd.
†1288	" Insulated Bases, covers and knobs, A.0352 .. .. .	"	150	do.	0 1 5½	Edison Swan Elec. Co. Ltd.
	Syndanyo (Insulated Sheet), Ebony grade—					
†1289	1" .. .. .	"	200 lb.	sq. ft.	0 4 1	Noyes Bros. (Melb.) Pty. Ltd.
†1290	1½" .. .. .	"	200 "	do.	0 5 0	
†1291	2" .. .. .	"	200 "	do.	0 6 0	
†1292	2½" .. .. .	"	200 "	do.	0 8 9	
†1293	3" .. .. .	"	200 "	do.	0 10 2	
	Tape, Adhesive, Black—					
†1294	1" in 2-oz. rolls .. .. .	Germany	800 "	lb.	0 1 3½	Remingtons Pty. Ltd.
†1295	1" in 8-oz. rolls .. .. .	"	1,400 "	do.	0 1 3½	
	Tape, Empire—					
†1296	1" wide, 5 mils thickness, in 72-yd. rolls .. .. .	U.K.	20 "	do.	0 3 3	W. G. Sleightholm
†1297	1½" wide, 7 mils thickness, in 72-yd. rolls .. .. .	"	80 "	do.	0 3 3	
†1298	1" wide, 7 mils thickness, in 72-yd. rolls .. .. .	"	12 "	do.	0 3 3	
†1299	1" wide, 15 mils thickness .. .. .	"	12 "	do.	..	
†1300	1½" wide, 15 mils thickness .. .. .	U.K.	20 "	do.	0 2 10	Nil
†1301	Tape, Rubber (Splicing Gum), ½", "Voltite" .. .. .	U.S.A.	60 "	do.	0 2 6	A. L. Campbell & Co. Pty. Ltd.
†1302	Torches, Hand, Electric, complete with Battery, Lamp, &c., 3 cells .. .. .	U.K.	10	each	0 4 11	Edison Swan Elec. Co. Ltd.
*1303	Tubes, Porcelain, for resistance .. .. .	"	24	do.	..	Falk, Stadelmann & Co. Ltd.
*1304	Washers, Litholite .. .. .	"	200	dozen.	..	Nil
1305 to 1310	Nil					

**LEATHER GLOVES.**

(1.7.1929 to 30.6.1930.)

The Gloves shall be manufactured from Chrome Tanned Leather or other suitable material and shall have reinforced thumb and finger seams. All material and workmanship shall be of the very best quality for the purpose.

A sample of the gloves required may be seen on application at room 20A, Railway Offices, Spencer-street.

The Tenderer shall submit with his tender a sample pair of the gloves he tenders to supply, and all deliveries of gloves under this contract shall show no appreciable variation from such sample.

†1311	Gloves, Chrome Tanned Leather Palm, and Canvas back	Victoria	2,500 pairs	pair	0 1 11	Robert S. Don
1312	Nil					

**MILD STEEL PLATES.**

(1.7.1929 to 30.6.1930.)

**SPECIFICATION.**

The Mild Steel Plates shall be manufactured from steel made from selected material by the open hearth or electric process and shall show on analysis not more than .06 per centum of sulphur or of phosphorus. The Contractor shall supply an analysis at his own expense when required so to do.

The Mild Steel Plates, if required for Locomotives, shall be in accordance with Specification No. 17, 1911, of Report No. 24 of the British Engineering Standards Association, and if required for Cars and Wagons, shall be in accordance with Specification No. 18, 1911, of Report No. 24 of the British Engineering Standards Association as applied to Mild Steel Plates except that the rolling margin shall be not more than 2½ per centum over or under the specified thickness of the plates at any part, and the shearing margin, except where otherwise stated, shall not be under and not more than ½-inch and ¾-inch over the specified length and width respectively.

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

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

## MILD STEEL PLATES—continued.

Inspection and tests, including surface inspection, will be conducted in the presence of the Departmental Inspecting Engineer at the works of the manufacturer, by and at the cost of the manufacturer.

The rates quoted cover delivery loaded into railway trucks at Williamstown, Victoria Dock, or Port Melbourne (Montague) or where and as directed at the Spencer-street Goods Sheds at the Contractor's option. If delivered at Spencer-street, cartage charges shall be to the Contractor's account.

The Plates ordered for indent shall be delivered within three months and those for delivery ex stock within 24 hours. The plates under this Contract will be for maintenance purposes only, and in the event of the Corporation deciding to invite tenders for the supply and delivery of plates for construction purposes, acceptance of any such tender shall not be regarded as an infringement of this contract.

Inspection and surface inspection will be conducted by the Inspecting Engineer at the Manufacturer's works, and the rate tendered shall be fully inclusive of any charges for such inspection, and notwithstanding that the rate tendered is for delivery in the ship's slings, the Contract provides for the rejection of any plates not received at Newport or Spotswood in good order and condition.

The Officer ordering plates for indent shall prepare a letter to the Secretary requesting him to forward a copy of the order to the Agent General to arrange inspection, and at the same time request that the following cablegram be despatched :—

"Contract No. 42736, Stewarts and Lloyds.....tons Steel plates for.....  
Arrange inspection. Copy order .....posted."

The Inspecting Engineer will need to rely on the sizes cabled to the Manufacturer by the contractor in Melbourne, as it is proposed not to cable particulars of sizes, but the cablegram should show whether required for cars, waggons, or locomotives.

Plates may be ordered for urgent delivery from stocks held in Melbourne (see Item No. 1336), and in such cases delivery shall be given at the Spencer-street Goods Sheds and the rate in the contract shall be fully inclusive of all charges excepting Customs Duty and the addition of £1 per ton as provided for by the Item in question.

Inspection of any plates supplied ex stock in Melbourne will be conducted at Newport or Spotswood as the case may be.

Stevedoring charges, Customs Duty, and wharfage will be arranged by the corporation on all plates ordered for indent. The Contractor should be requested to have the Bill of Lading made out in favour of the Victorian Railways Commissioners and to forward documents for Customs purposes in sufficient time to avoid delay in delivery and despatch. Any increased cost incurred by the corporation through the Contractor's failure to supply proper documents may be deducted from money due to the Contractor.

Payment will be made in Melbourne.

The Contract provides that during its currency a minimum quantity of 300 tons shall be ordered, and the Storekeeper at the Newport Workshops Storehouse will pay attention to this aspect of the contract.

The plates will be manufactured by Stewarts and Lloyds, of Scotland.

Mild Steel Rectangular Plates, any lengths or widths, as may be ordered—									
1313	$\frac{3}{16}$ " thick up to 57" wide	..	..	U.K.	} 500 tons	ton	10 10 9	} Stewarts & Lloyds (Aust.) Ltd	
1314	$\frac{1}{4}$ " thick up to 60" wide	..	..	"		do.	10 5 9		
1315	$\frac{5}{16}$ " thick up to 66" wide	..	..	"		do.	10 0 9		
1316	$\frac{3}{8}$ " thick up to 75" wide	..	..	"		do.	9 15 9		
1317	$\frac{7}{16}$ " thick up to 84" wide	..	..	"		do.	9 15 9		
1318	$\frac{1}{2}$ " thick up to 90" wide	..	..	"		do.	9 15 9		
1319	$\frac{9}{16}$ " thick and up, rising by $\frac{1}{16}$ " or $\frac{1}{8}$ ", up to 96" wide	..	..	"		do.	9 15 9		
Extras for width—									
1320	$\frac{3}{16}$ " exceeding 57" wide up to 60" wide	..	..			do.	0 10 0		
1321	$\frac{3}{16}$ " exceeding 60" wide up to 63" wide	..	..			do.	0 15 0		
1322	$\frac{3}{16}$ " exceeding 63" wide up to 66" wide	..	..			do.	1 0 0		
1323	$\frac{3}{16}$ " exceeding 66" wide up to 69" wide	..	..			do.	1 10 0		
1324	$\frac{3}{16}$ " exceeding 69" wide up to 72" wide	..	..			do.	2 5 0		
For every 3" or part over the following limits :—									
1325	$\frac{1}{4}$ " over 60" wide	..	..			do.	0 2 6		
1326	$\frac{5}{16}$ " over 66" wide	..	..			do.	0 2 6		
1327	$\frac{3}{8}$ " over 75" wide	..	..			do.	0 2 6		
1328	$\frac{7}{16}$ " over 84" wide	..	..			do.	0 2 6		
1329	$\frac{1}{2}$ " over 90" wide	..	..			do.	0 2 6		
1330	$\frac{9}{16}$ " and up, over 96" wide	..	..			do.	0 2 6		
1331	Extra for lengths over 30' 0" up to 40' 0" ..					do.	..		
Extras for Narrowness—									
1332	Sheared plates 20' long and upwards and under 18" down to and including 12" wide					do.	0 5 0		
1333	Sheared plates 15' long and upwards and under 12" wide					do.	0 10 0		

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

## MILD STEEL PLATES—continued.

1334	Extras for Smallness— All plates under 4 square feet in area ..			ton	0 10 0	Stewarts and Lloyds (Aust.) Ltd.
1335	All plates resheared within $\frac{1}{8}$ " ..			do.	1 0 0	
1336	Extra for delivery <i>ex</i> stock in Melbourne ..			do.	1 0 0	
1337 to 1340	Nil					

## HELIOGRAPHIC PROCESS MATERIALS AND CARBONS FOR ARC LAMPS.

(1.7.1929 to 30.6.1930.)

As regards items 1352 and 1353, the Australian General Electric Co. Ltd. tendered a lower rate, but was unable to submit a sample. If the sample when received, prove satisfactory, the Australian General Electric Co. Ltd. should receive the business, otherwise all orders should be placed on Lendrums Limited.

HELIOGRAPHIC PROCESS MATERIALS.							
	Linen, Ferro Prussiate—						
†1341	30" wide x 20 yards long .. ..	N.S.W.	60 rolls	roll	1 17 6	} Max Wurcker Ltd.	
†1342	40" wide x 20 yards long .. ..	"	30 "	do.	2 7 6		
	Linen, Heliographic, Gallic Acid Bath—						
†1343	30" wide x 20 yards long .. ..	"	40 "	do.	2 8 6	} Harding & Halden Sensitizing Co. (Overseas) Ltd.	
†1344	40" wide x 20 yards long .. ..	"	20 "	do.	3 1 6 <small>Less 2½ % cash 30 days</small>		
	Paper, Ferro Prussiate, base—						
*1345	30"/31½" wide .. ..	U.K.	3 tons	ton	70 0 0	} Wiggins, Teape & A. Pine (Export) Ltd.	
*1346	40" wide .. ..	"	3 "	do.	70 0 0		
	Paper, Heliographic, Gallic Acid Bath—						
†1347	30"/31½" wide x 20 yards long .. ..	N.S.W.	300 rolls	roll	0 10 0	} Max Wurcker Ltd.	
†1348	40" wide x 20 yards long .. ..	"	150 "	do.	0 13 4		
	Paper, Sepia, thin, negative—						
†1349	30" wide x 20 yards long .. ..	"	15 "	do.	1 0 0		
†1350	40" wide x 20 yards long .. ..	"	15 "	do.	1 5 0		
CARBONS FOR ARC LAMPS.							
†1351	12" long x 13 m.m. dia. solid, "Siemens" ..	Germany	500	100	1 15 0	} Australian Gen. Elec. Co. Ltd.	
†1352	12" long x 13 m.m. dia. cored, white flame..	France	500	do.	2 4 9		
†1352a	12" long x 13 m.m. dia. cored, white flame..	Germany	500	do.	4 0 0	} Lendrum Ltd.	
†1353	12" long x 18 m.m. dia. cored, white flame..	France	500	do.	4 2 10		
†1353a	12" long x 18 m.m. dia. cored, white flame..	Germany	500	do.	5 15 0	} Lendrum Ltd.	
1354 to 1366	Nil						

## DRILLS FOR RAIL BORING MACHINE.

The Drills shall be in accordance with sample exhibited as regards section of steel and form of grinding. The steel shall be of such quality and temper as to withstand boring holes through rail steel  $\frac{1}{8}$  inch thick of the following chemical composition:—Carbon up to 0.75 per cent. and Manganese up to 0.90 per cent., without requiring to be re-ground and shall withstand the same test after re-grinding.

The sample exhibited by the Corporation marked "Sample No. 1" shows the shape of drill required, is not yet hardened, and is not a sample in that respect.

The Corporation undertakes to order the full estimated requirements during the Contract period.

*1367	Drills, Flat, Ribbed, for Rail Boring Machine, 1½" diameter, 6" long, Celfor	U.S.A.	500	each	0 7 6	McPherson's Pty. Ltd.
1368 to 1370	Nil		Fixed quantity			

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

## STEEL CLOTHES LOCKERS.

(1.7.1929 to 30.6.1930.)

*Sets.*—The lockers shall be supplied in single lockers or in sets of two to six lockers conjoined as ordered.

*Materials.*—The lockers shall be constructed of 22 gauge mild steel sheets with folded rebated styles and rails of 18 gauge mild steel.

*Welding, &c.*—All joints and contacts shall be electrically welded or spot welded and all necessary bolts and rivets shall be supplied and fixed. Lock nuts and spring washers shall be used where necessary to make all fittings and fastenings permanently secure.

*Dimensions.*—Each locker shall be 15 inches x 15 inches x 72 inches high including 4-in. sheeted base.

*Shelves.*—Each locker shall be fitted with a shelf 9 inches below the top, and a second shelf 15 inches below the top if so ordered. Each shelf shall have a rolled or folded front edge. The bottom of the locker shall be 4 inches above floor level.

*Doors.*—The doors shall be of 18 gauge M.S. Sheet, approximately 13 inches wide by 5 feet 6 inches high, reinforced and returned 1 inch into rebated frame and shall be perforated with holes of  $\frac{1}{4}$ -in. diameter at  $\frac{3}{4}$ -in. pitch to form two equal panels with plain styles and rails. Each door shall be hung with 3 No. 3-in. steel butts.

*Fastenings.*—Each locker door shall be secured by a compound espagnolette rod bolt having horizontal tongues at top and bottom, operated by a perforated cast gun metal handle fixed at center rail of door engaging a perforated gun metal lug secured to locker style. Each door shall be provided with an American Yale pattern  $1\frac{1}{2}$ -in. brass padlock with two keys. All padlocks shall differ.

*Fittings.*—Each locker shall be fitted with one approved oxidized three way coat hanger fixed under the center of the shelf or shelves and an approved oxidized hook on each side wall.

*Enamel.*—The lockers shall be free from all imperfections and blemishes and shall be finished inside and out in the best description of stove enamel, coloured olive green outside and white inside.

*Numbering.*—Numbers if ordered shall be written on the doors in  $1\frac{1}{2}$ -in. white figures.

*Inspection.*—The lockers shall be manufactured under the supervision, and to the entire satisfaction of the Inspector of Ironwork of the Way and Works Branch of the Victorian Railways.

A single locker has been submitted as a sample.

†1371	Lockers, Clothes, Steel, 15" x 15" x 72", stove enamelled, in single lockers or in sets of two to six lockers, conjoined, and with one or two shelves each as ordered. Padlock with two keys for each locker, and numbering of lockers if ordered to be included	Victoria	100	locker	2 9 6	Thos. Duff and Bros. Pty. Ltd.
1372 to 1373	Nil					

## WOOL YARN.

Samples of the Wool Yarn required may be inspected at the Sample Room, No. 20A, Railway Offices, Spencer-street, Melbourne, but the tenderer shall supply with his tender sample skeins, lapped and bound into rolls of the wool yarn he tenders to supply.

The Wool Yarn is for use for lubricating railway rolling-stock axle journals. It shall be supplied in continuous thread skeins of approximately 5 oz. in weight each for 6 inches x 3 inches diameter rolls, ranging to approximately 16 oz. for 9 inches x 4 inches diameter rolls, made up into rolls by lapping them, and tied (with binding twine of the best quality) in that form, in any length from 6 inches to 9 inches inclusive, by any diameter from 3 inches to 4 inches inclusive, as may be ordered, and in the quantity, as may be ordered, from time to time, during the continuance of this Contract.

The Comptroller of Stores will carry out any tests necessary to ascertain whether the Wool Yarn delivered complies in every respect with this Specification. Should more than 10 per cent. of any delivery fail to comply with the specification, the whole of the Wool Yarn, in such delivery, will be liable to rejection.

All weights shall be net, and shall be ascertained by weighing the Wool Yarn on the weighbridge scales or other weighing machines of the Corporation at the Metropolitan Car and Wagon Shops, and all such weights so ascertained by the Comptroller of Stores shall for all purposes be accepted by the parties, to this Contract a correct, final, and binding.

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

## WOOL YARN—continued.

The Wool Yarn 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 Metropolitan Car and Wagon Shops, North Melbourne, in the case of Foy and Gibson Pty. Ltd., and provisionally delivered at the Geelong Railway Station in the case of the Geelong R. S. & S. Woollen and Worsted Co-op. Manfg. Co. Ltd., subject to the operation of the "Rejection" clause of the Conditions of Contract.

The tender of the Geelong R. S. & S. Woollen and Worsted Co-op. Manfg. Co. Ltd. is accepted for a maximum quantity of 4 tons, as this Company has this quantity on hand, and on supply of this quantity the item is to be determined.

WOOL YARN, ROLLED.						
†1374	Skeins, 6" long by 3" diameter to 9" long by 4" diameter, as may be ordered and as specified	Vict.	12 tons	lb.	0 1 5½	Foy and Gibson Pty. Ltd.
†1374A	Skeins, 6" long by 3" diameter to 9" long by 4" diameter, as may be ordered and as specified	"	4 "	"	0 1 5½	Geelong R. S. & S. Woollen & Worsted Co-op. Manfg. Co. Ltd.

## APPENDIX "A."

## 6. LOCOMOTIVE CYLINDER OIL.—SPECIFICATION L.1.—Items 1 and 2.

*Scope.*—This Specification covers the grade of petroleum oil required for the lubrication of the Cylinders and Valves of Superheated and Saturated Locomotive Steam-engines, using either mechanical lubricators or those operating on 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 100° F., dynes per sq. cm.,  
" 140° F. " "  
" 212° F. " "  
Fire Point,  
Pour Point,

Volatility\* at 400° F.,  
" \* at 500° F.,  
" \* 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 should 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.

*Sampling and Testing.*—A composite sample (at least 2 quarts) shall be taken from each delivery, drawn from at least 5 (five) 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, &c."

## 7. LOCOMOTIVE BEARING OIL.—SPECIFICATION L.2.—Items 3 and 4.

*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.

\* The volatility loss, after heating the oil for one hour at the temperatures given, will be determined in the V.B. 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).



APPENDIX "A"—*continued.*7. LOCOMOTIVE BEARING OIL—*continued.*

**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.

**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./15·5° C.,	Fire Point,
Viscosity at 100° F., dynes per sq. cm.,	Pour Point,
" 140° F. " "	Syphon Test,
" 212° F. " "	Saponifiable Matter,

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.

**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, &c."

8. CAR AND WAGON OIL (BLACK OIL).—SPECIFICATION L.3.—*Item 5.*

**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./15·5° C.,	Fire Point,
Viscosity at 70° F., dynes per sq. cm.,	Pour Point,
" 100° F. " "	Syphon Test,
" 140° F. " "	Saponifiable Matter,

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.

**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, &c."

9. CAR OIL (RED OIL).—SPECIFICATION L.3A.—*Item 6.*

**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.

## APPENDIX "A"—continued.

## 9. CAR OIL (RED OIL)—continued.

*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 sq. 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./15.5° C.,	Pour Point,
Viscosity at 70° F., dynes per sq. cm.,	Syphon Test,
" 100° F., " "	Saponifiable Matter,
" 140° F., " "	Carbon Residue,
Fire Point,	

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.

*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, &c."

## APPENDIX "B."

## 5. MOTOR ENGINE OILS.—SPECIFICATION L.4.—Items 11 to 17.

*Scope.*—This Specification covers the grade of petroleum oil required for the lubrication of Internal Combustion Engine Cylinders and Refrigerating Machinery.

Four grades are specified, known as extra light, light, medium, and extra heavy, 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° F., dynes per sq. cm.		Fire Point, degrees Fahr.	Pour Point, degrees Fahr.	Carbon Residue, per cent.
	Maximum.	Minimum.	Minimum.	Maximum.	Maximum.
Extra Light .. .. .	0.15	0.12	370	0	.05
Light .. .. .	0.25	0.18	400	10	.10
Medium .. .. .	0.30	0.22	430	15	.40
Extra Heavy .. .. .	1.25	1.00	570	35	1.00

*Special Tests.*—The oils submitted under this Specification will be submitted to tests to determine the following properties :—

Specific Gravity, 15.5° C./15.5° C.,	Pour Point,
Viscosity at 70° F., dynes per sq. cm.,	Volatility,
" 100° F., " "	Carbon Residue,
" 140° F., " "	Ash,
Fire Point,	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.

*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 methods described in "Circular of the Australian Railways: Testing of Lubricating, Illuminating, and Fuel Oils, &c."

## 5A. KEROSENE ENGINE OILS.—SPECIFICATION L.4A.—Item 18.

*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 "B"—continued.

## 5A. KEROSENE ENGINE OILS—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./15.5° C.,	Volatility,
Viscosity at 70° F., dynes per sq. cm.,	Carbon Residue,
" 100° F., " "	Ash,
" 140° F., " "	Organic Acidity,
Fire Point,	Saponifiable Matter,
Pour Point,	

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.

*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 methods described in "Circular of the Australian Railways : Testing of Lubricating, Illuminating, and Fuel Oils, &c."

## 6. MACHINERY OILS.—SPECIFICATION L.5—Items 19 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

*Special Tests.*—The oils submitted under this Specification will be subjected to tests to determine the following properties :—

Specific Gravity at 15.5° C./15.5° C.,	Fire Point,
Viscosity at 70° F., dynes per sq. cm.	Pour Point,
" 100° F., " "	
" 140° F., " "	

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.

*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 methods described in "Circular of the Australian Railways : Testing of Lubricating, Illuminating, and Fuel Oils, &c."

## 7. TURBINE AND COMPRESSOR OILS.—SPECIFICATION L.6.—Items 25 and 26.

*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 "B"—continued.

## 7. TURBINE AND COMPRESSOR OILS—continued.

*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.	Carbon Residue, per cent.
	Maximum.	Minimum.	Minimum.	Maximum.	Maximum.
Medium .. .. .	0.30	0.22	430	25	.30

*Special Tests.*—Oils submitted under this Specification will be subjected to tests to determine the following properties:—

Specific Gravity, 15.5° C./15.5° C.,	Pour Point,
Viscosity at 100° F., dynes per sq. cm.,	Volatility,
" 140° F. "	Ash,
" 212° F. "	Organic Acidity,
Fire Point,	Demulsibility,

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.

*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, &c."

## 8. TRANSFORMER AND SWITCH OILS.—SPECIFICATION L.7.—Item 27.

*Scope.*—This Specification covers the grades of petroleum oil required for use in Transformers and Oil Switches.

Two grades are specified, the one for use in Transformers, the other for use in Oil Switches.

*Manufacture.*—The oil shall be a thoroughly refined, filtered petroleum oil, without the admixture of fatty oils, resins, soaps, or other compounds. It shall be light in colour.

*Properties and Tests.*—The oil shall be free from mineral acids and alkali, asphaltic, tarry, or suspended matter, and moisture or corrosive sulphur compounds, and in other respects shall comply with the conditions mentioned hereunder:—

	Transformer Oil.		Switch Oil.	
	Maximum.	Minimum.	Maximum.	Minimum.
Viscosity at 100° F., dynes per sq. cm. ..	0.18	..	0.20	..
Fire Point, degrees Fahr. .. .. .	..	360	..	370
Pour Point, degrees Fahr. .. .. .	25	..	25	..
Volatility, 8 hours at 212° F., per cent. ..	2.0	..	..	..

*Special Tests.*—Oils submitted under this Specification will be subjected to tests to determine the following properties:—

Specific Gravity, 15.5° C./15.5° C.,	Pour Point,	Saponification Value,
Viscosity at 70° F., dynes per sq. cm.,	Volatility,	Ageing and Sludging,
" 100° F. "	Carbon Residue,	Corrosion,
" 140° F. "	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.

*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, &c., 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, &c."

## APPENDIX "B"—continued.

## 9. CASTOR OIL.—SPECIFICATION L.8.—Item 28.

*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 foots, 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, &c."

## "APPENDIX C."

## 5. GEAR GREASE.—SPECIFICATION M.1.—Item No. 41.

*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.
			Minimum.	Minimum.
Dark Gear Grease .. .. .	18	Maximum. 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, &c."

## 6. GREASE.—SPECIFICATION M.2.—Items Nos. 42 and 43.

*Scope.*—This Specification covers the grade of grease required for the lubrication of Gears, and of such parts of Motor Equipment and other Machinery as are lubricated by means of compression cups, Grade No. 4 to be used for Pantograph Collectors.

Two 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.
			Minimum.	Minimum.
No. 3 Cup Grease .. .. .	18	Maximum. 2.5	146°	165°
No. 4 Cup Grease .. .. .	23	3.5	170°	188°

## APPENDIX "C"—continued.

## 6. GREASE—continued.

*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 No. 3 and No. 4 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.

*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, &c."

## 7. ANTI-FRICTION GREASE.—SPECIFICATION M.3.—Item No. 44.

*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:—

Water	..	..	..	..	Maximum.
Ash	..	..	..	..	6·5 per cent.
					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, &c."

## 8. SPECIFICATION FOR PETROLEUM JELLY.—Item No. 45.

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, rosin, 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./15·5° C.

## APPENDIX "D."

## TURPENTINE.—SPECIFICATION A5.—Item No. 51.

The materials shall be supplied to Tentative Australian Standards Association, No. K 7—1926 T.

The material shall be tested by standard methods of sampling and testing Tentative Australian Standards Association, Nos. K 7 and 8 T., Part 2.

## MINERAL TURPENTINE.—Item No. 52.

The material shall be supplied to Tentative Australian Standard Specification No. K 8—1926 T.

The material shall be tested by standard methods of sampling and testing, Tentative Australian Standards Nos. K 7 and 8—1926 T., Part 2.

## SPECIFICATION FOR METHYLATED SPIRITS.—Item No. 53.

The material shall be supplied to Tentative Australian Standard Specification No. K 30—1928 T.

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