

BSBPMG514 MANAGE PROJECT COST

PRACTICAL ASSESSMENT INSTRUCTIONS

- The following practical assessment will require the participant to complete work related activities.
- The assessor will conduct observations of the participant's work to determine whether they display sufficient practical skills and knowledge.
- Please fill in the details below, providing your name, signature and date of assessment.
 - Your signature acknowledges that the assessor provided clear instructions and the participant understood what was required to complete this assessment.
- The assessor may substitute a Practical Task with another task of equal value.
 - Alternate tasks must be fully documented by the assessor.

Participant name Paul Russo

Participant signature



Assessor name

Assessor signature

Date 14/07/2021

Number of tasks	Number of tasks completed	Satisfactory?	
		Yes	No
1		☐	☐

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Practical Task 1	
Description of task: A suitable observer is to verify the participant's ability to identify, analyse and refine project costs to produce a budget and use it and the principal mechanism to control project cost. These tasks may be simulated or real. The participant is to gather evidence of how they have completed each component of the Practical Task, which is to be submitted with this Practical Assessment sheet. The observer is to provide detailed comments on the tasks completed by the participant. The assessor is to verify the observer's comments in the Assessor Comments section, and provide the Practical Assessment outcome on the front cover of this document.	
Resources required: Project documentation, Organisational documentation (including budgets/other financial documents), Budget software.	
Assessment of task	
Name of participant:	Paul Russo
Name of observer:	Rory Church
Role of observer (Confirm suitability to sign)	Senior Project Engineer
Email address of observer	Rory.church@cbgujv.com.au
Signature of observer:	
Date:	14/07/2021
When completing the task, did the participant:	Tick if satisfactorily completed. Provide comments if left unticked.
1 Determine project costs	
1.1A. Seek input from stakeholders and guidance from others when determining resource requirements for tasks identified in the work breakdown structure.	☒
1.1B. Estimate project costs to prepare project budget within agreed tolerances.	☒
1.1C. Develop a project budget.	☒
1.1D. Within delegated authority, develop a cost-management plan to ensure ongoing management of project finances.	☒
2 Monitor and control project costs	
1.2A. Implement agreed financial-management processes and procedures to monitor actual expenditure against budget.	☒
1.2B. Select and use cost-analysis methods and tools to identify cost variations and evaluate alternative actions.	☐
1.2C. Implement and monitor agreed actions to maintain financial objectives.	☒
1.2D. Provide accurate and timely financial reports.	☒

*Concrete forecast
Attachment 1*

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*Attachment 1
Attachment 6
Attachment
Attachment*

② - End of month forecast review → close out comments

③ - Cost flow report

3 Complete cost-management processes		
1.3A.	Conduct appropriate activities to signify financial completion.	☒
1.3B.	Use available records to review project outcomes and determine effectiveness of project cost management.	☒
1.3C.	Review cost-management issues and document improvements.	☒
The participant's performance was: ☒ Satisfactory ☐ Not Satisfactory		

⑤ Attachment 1
" "
" "

④ - Forecast review w/ comments and amounts addressed.

OBSERVER COMMENTS	
1-1A	ATTACHMENT 1 SHOWS THE WOOLLOONABBA STATION BROKEN INTO
1-1B	LEVELS AND CONSTRUCTION STAGES. THE BUDGET VALUE FOR
1-1C	ITEMS IS SHOWN CALCULATED BY BUDGET RATE + BUDGET QUANTITY. THESE BUDGET VALUES MATCH THE BUDGET AMOUNT IN 'STARQUERY' WHICH IS THE FINANCIAL REPORTING TOOL IN USE AT CPD CONTRACTORS.
1-1D	ACTUAL QUANTITIES ARE TRACKED AND MONITORED TO MEASURE
1-2A	ACTUAL COST VS BUDGET AMOUNT FOR ITEMS FOR THE COST CODE, CONCRETE SUPPLY
1-2C	PAUL HAS SHOWN ACTIONS PERFORMED IN THE EMAIL BY COST CODE TO ADDRESS WHAT IS REQUIRED BY PROJECT MANAGER TO MAINTAIN AND COMPLETE REQUIRED OBJECTIVE.
1-2D	ATTACHED IS CASH FLOW FORECAST SUMMARY FOR COSTCODES THAT PAUL IS RESPONSIBLE FOR. ALSO ATTACHED IS A COST FLOW FOR A SINGLE COST THAT FORMS PART OF THE COST FLOW SUMMARY FORECAST FOR WOOLLOONABBA STATION.
1-3B	ATTACHMENT 4 SHOWS ACTUAL COST RATES VS FORECAST RATES AND ADDRESSES THAT FORECAST RATE IS INSUFFICIENT AND WILL INDICATE A LOSS.
1-3A	ATTACHMENT 5 SHOWS REVIEW + SUMMARY OF CONTRACT VALUE + VARIATIONS FOR CONTRACTOR AT COMPLETION OF WORKS + FINAL AMOUNT VALUE OF CONTRACT.
1-2B	ATTACHMENT 6 SHOWS REVIEW AND ASSESSMENT OF SUBMITTED CONTRACTOR VARIATION FOR ADDITIONAL SCOPED AFTER DRAWING REVISION ISSUED TO CONTRACTOR. COMMENTS COLUMN SHOWS/ADDRESSES REASONS FOR DIFFERENCE IN SUBMITTED + ASSESSED VALUE.

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Concrete Supply Control Register										Summary - Actual - Budget - Forecast										No 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Ground layer - 100mm thick	B0	Slab	2	m3					110.0	122.8	13508.0	64.0	127.1	8134.6	46.0	122.8	5649.8	110.0	125.3	
Rectangular columns, Perih	B0	Columns	2	m3					53.0	193.8	10271.4	86.8	188.7	16256.4	-	193.8	-	86.8	188.7	275
Slab on ground	B0	Slab	2	m3					950.0	154.8	146982.0	950.0	161.4	155297.9	-	154.8	-	950.0	151.4	2335
Cast in situ concrete (if pt wall, Cast in situ concrete wall (External walls)	B0	Walls	2	m3					673.0	164.8	110900.4	660.1	161.8	106628.7	13.9	164.8	2125.9	673.0	161.9	11660
Cast in situ concrete wall	B0	Walls	2	m3					200.0	164.8	32960.0	231.8	162.4	37653.2	58.2	164.8	9591.4	200.0	162.9	
200mm external wall overpour	B0	Walls	2	m3					201.9	164.8	33273.1	211.6	164.8	34871.7	72.4	164.8	11931.7	204.0	164.8	
Waste (5%)	B0	Walls	2	m3					114.6	164.8	18886.1	9.4	164.8	1549.1	114.6	164.8	18886.1	124.0	164.8	
Waste (5%)	B0	Walls	2	m3					0.0	0.0	0.0	-	-	-	-	-	-	-	-	
LEVEL B7	B7	Columns	2	m3					71.0	193.8	13759.8	-	-	-	71.0	193.8	13759.8	-	-	
Rectangular columns, Perih	B7	Columns	2	m3					614.0	154.8	95047.2	-	-	-	614.0	154.8	95047.2	-	-	
Suspended concrete slab and beams	B7	Slab	2	m3					470.0	164.8	77456.0	-	-	-	470.0	164.8	77456.0	-	-	
Cast in situ concrete wall	B7	Walls	2	m3					629.0	164.8	103859.2	-	-	-	629.0	164.8	103859.2	-	-	
200mm external wall (External walls)	B7	Walls	2	m3					180.0	164.8	29664.0	-	-	-	180.0	164.8	29664.0	-	-	
200mm external wall overpour	B7	Walls	2	m3					180.0	164.8	29664.0	-	-	-	180.0	164.8	29664.0	-	-	
Waste (5%)	B7	Walls	2	m3					98.7	164.8	16255.8	-	-	-	98.7	164.8	16255.8	-	-	
LEVEL B4	B4	Columns	2	m3					90.0	193.8	17442.0	-	-	-	90.0	193.8	17442.0	-	-	
Rectangular columns, Circular columns	B4	Columns	2	m3					180.0	154.8	27864.0	-	-	-	180.0	154.8	27864.0	-	-	
Slab on ground	B4	Slab	2	m3					780.0	154.8	120720.0	-	-	-	780.0	154.8	120720.0	-	-	
Suspended concrete slab and beams	B4	Slab	2	m3					1.0	154.8	154.8	-	-	-	1.0	154.8	154.8	-	-	
Hub	B4	Slab	2	m3					251.0	164.8	41364.8	-	-	-	251.0	164.8	41364.8	-	-	
Cast in situ concrete wall, Cast in situ concrete (if pt wall)	B4	Walls	2	m3					536.0	164.8	88332.8	-	-	-	536.0	164.8	88332.8	-	-	
200mm external wall (External walls)	B4	Walls	2	m3					160.8	164.8	26499.8	-	-	-	160.8	164.8	26499.8	-	-	
Waste (5%)	B4	Walls	2	m3					101.7	164.8	16762.2	-	-	-	101.7	164.8	16762.2	-	-	
LEVEL B3	B3	Columns	2	m3					33.0	193.8	6395.4	-	-	-	33.0	193.8	6395.4	-	-	
Rectangular columns	B3	Columns	2	m3					454.0	154.8	70279.2	-	-	-	454.0	154.8	70279.2	-	-	
Suspended concrete slab and beams	B3	Slab	2	m3					262.0	164.8	43177.6	-	-	-	262.0	164.8	43177.6	-	-	
Cast in situ concrete wall	B3	Walls	2	m3					654.0	164.8	107779.2	-	-	-	654.0	164.8	107779.2	-	-	
200mm external wall (External walls)	B3	Walls	2	m3					196.2	164.8	32333.8	-	-	-	196.2	164.8	32333.8	-	-	
200mm external wall overpour	B3	Walls	2	m3					80.0	164.8	13184.0	-	-	-	80.0	164.8	13184.0	-	-	
Waste (5%)	B3	Walls	2	m3					0.0	0.0	0.0	-	-	-	0.0	0.0	0.0	-	-	
LEVEL B2	B2	Columns	2	m3					131.0	193.8	25387.8	-	-	-	131.0	193.8	25387.8	-	-	
PCC, Perih columns, Circular columns, Topping slab to	B2	Slab	2	m3					644.0	154.8	99691.2	-	-	-	644.0	154.8	99691.2	-	-	
Suspended concrete slab and beams	B2	Columns	2	m3					299.0	164.8	49275.2	-	-	-	299.0	164.8	49275.2	-	-	
Cast in situ concrete wall	B2	Walls	2	m3					519.0	164.8	85531.2	-	-	-	519.0	164.8	85531.2	-	-	
200mm external wall (External walls)	B2	Walls	2	m3					156.0	164.8	25708.8	-	-	-	156.0	164.8	25708.8	-	-	
200mm external wall overpour	B2	Walls	2	m3					79.7	164.8	13134.6	-	-	-	79.7	164.8	13134.6	-	-	
Waste (5%)	B2	Walls	2	m3					0.0	0.0	0.0	-	-	-	0.0	0.0	0.0	-	-	
LEVEL B1	B1	Columns	2	m3					30.0	193.8	5814.0	-	-	-	30.0	193.8	5814.0	-	-	
Rectangular columns, Circular columns	B1	Columns	2	m3					460.0	154.8	70552.0	-	-	-	460.0	154.8	70552.0	-	-	
Suspended concrete slab and beams	B1	Slab	2	m3					451.0	164.8	74324.8	-	-	-	451.0	164.8	74324.8	-	-	
Cast in situ concrete wall	B1	Walls	2	m3					559.0	164.8	92059.2	-	-	-	559.0	164.8	92059.2	-	-	
200mm external wall (External walls)	B1	Walls	2	m3					165.0	164.8	27192.0	-	-	-	165.0	164.8	27192.0	-	-	
200mm external wall overpour	B1	Walls	2	m3					84.2	164.8	13879.2	-	-	-	84.2	164.8	13879.2	-	-	
Waste (5%)	B1	Walls	2	m3					0.0	0.0	0.0	-	-	-	0.0	0.0	0.0	-	-	
LEVEL L0	L0	Columns	2	m3					1123.0	154.8	173840.4	-	-	-	1123.0	154.8	173840.4	-	-	
Suspended concrete slab and beams	L0	Slab	2	m3					5.0	154.8	774.0	-	-	-	5.0	154.8	774.0	-	-	
Hub	L0	Slab	2	m3					64.0	154.8	9907.2	-	-	-	64.0	154.8	9907.2	-	-	
Topping slab	L0	Slab	2	m3					59.6	164.8	9822.1	-	-	-	59.6	164.8	9822.1	-	-	
Waste (5%)	L0	Walls	2	m3					182.0	154.8	28173.6	-	-	-	182.0	154.8	28173.6	-	-	
ALL LEVELS		Waste	2	m3					9.1	164.8	1497.7	-	-	-	9.1	164.8	1497.7	-	-	
Concrete slabs & landings		Waste	2	m3					0.0	0.0	0.0	-	-	-	0.0	0.0	0.0	-	-	
Waste (5%)		Waste	2	m3					0.0	0.0	0.0	-	-	-	0.0	0.0	0.0	-	-	
LEVEL B0	B0	Mass Infill	3	m3					74.0	154.8	11455.2	-	-	-	74.0	154.8	11455.2	-	-	
Mass concrete under lift & escalator slabs	B0	Walls	3	m3					754.0	164.8	124359.2	-	-	-	754.0	164.8	124359.2	-	-	
Cast in situ concrete wall (External walls)	B0	Walls	3	m3					193.0	164.8	31896.4	-	-	-	193.0	164.8	31896.4	-	-	
200mm external wall overpour	B0	Walls	3	m3					226.2	164.8	37277.8	-	-	-	226.2	164.8	37277.8	-	-	
Waste (5%)	B0	Walls	3	m3					63.0	164.8	10392.4	-	-	-	63.0	164.8	10392.4	-	-	
LEVEL B4	B4	Columns	3	m3					60.0	154.8	9288.0	-	-	-	60.0	154.8	9288.0	-	-	
Topping slab to PCC beams	B4	Slab	3	m3					5.0	154.8	774.0	-	-	-	5.0	154.8	774.0	-	-	
Hub	B4	Slab	3	m3					460.0	154.8	70988.8	-	-	-	460.0	154.8	70988.8	-	-	
Suspended concrete slab and beams	B4	Slab	3	m3					32.0	164.8	5273.6	-	-	-	32.0	164.8	5273.6	-	-	
Upstand restraint beam, Cast in situ concrete wall	B4	Walls	3	m3					353.0	164.8	58174.4	-	-	-	353.0	164.8	58174.4	-	-	
200mm external wall overpour	B4	Walls	3	m3					105.9	164.8	17452.3	-	-	-	105.9	164.8	17452.3	-	-	

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Cost Plan Tender Quantity				REVISED BUDGET (Based on Revisions 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000)				ACTUAL (COST TO DATE)				COST TO COMPLETE				FORECAST COST AT COMPLETION (Quantities not included in cost plan tender quantity - wall overpour & waste, site establishment, topping slabs, misc, structural design changes & temporary works)			
AREA	Level	Element	STAGE	UOM	Budget Quantity (m3)	Rate	Budget Total	Actual Quantity (m3)	Actual Rate	Total	Quantity (m3)	Rate	Total	Quantity (m3)	Rate	Total	Comments		
Waste (5%)	B4	Waste (5%)	3	m3	50.6	164.8	8358.9	-	-	-	50.6	164.8	8358.9	-	-	-			
LEVEL B3	B3	Slab	3	m3	30.0	154.8	4644.0	-	-	-	30.0	154.8	4644.0	-	-	-			
Suspended concrete slab and beams	B3	Slab	3	m3	424.0	164.8	69875.2	-	-	-	424.0	164.8	69875.2	-	-	-			
Cast in situ concrete wall (External walls)	B3	Walls	3	m3	127.2	164.8	20952.6	-	-	-	127.2	164.8	20952.6	-	-	-			
250mm external wall overpour	B3	Walls	3	m3	29.1	164.8	4795.7	-	-	-	29.1	164.8	4795.7	-	-	-			
Waste (5%)	B3	Walls	3	m3	0.0	164.8	0.0	-	-	-	0.0	164.8	0.0	-	-	-			
LEVEL B2	B2	Slab	3	m3	314.0	154.8	48607.2	-	-	-	314.0	154.8	48607.2	-	-	-			
Topping slab to PCC beams, Phrith	B2	Slab	3	m3	6.0	154.8	928.8	-	-	-	6.0	154.8	928.8	-	-	-			
Ramp slab	B2	Slab	3	m3	28.0	154.8	4334.4	-	-	-	28.0	154.8	4334.4	-	-	-			
Suspended concrete slab and beams	B2	Slab	3	m3	3.0	164.8	494.4	-	-	-	3.0	164.8	494.4	-	-	-			
Cast in situ concrete wall	B2	Walls	3	m3	234.0	164.8	38593.2	-	-	-	234.0	164.8	38593.2	-	-	-			
Cast in situ concrete wall (External walls)	B2	Walls	3	m3	70.2	164.8	11599.0	-	-	-	70.2	164.8	11599.0	-	-	-			
250mm external wall overpour	B2	Walls	3	m3	32.8	164.8	5406.4	-	-	-	32.8	164.8	5406.4	-	-	-			
Waste (5%)	B2	Walls	3	m3	0.0	164.8	0.0	-	-	-	0.0	164.8	0.0	-	-	-			
LEVEL B1	B1	Slab	3	m3	2.0	154.8	309.6	-	-	-	2.0	154.8	309.6	-	-	-			
Protection slab	B1	Slab	3	m3	26.0	154.8	4024.8	-	-	-	26.0	154.8	4024.8	-	-	-			
Suspended concrete slab and beams	B1	Slab	3	m3	53.0	154.8	8204.4	-	-	-	53.0	154.8	8204.4	-	-	-			
Topping slab to PCC beams	B1	Slab	3	m3	131.0	164.8	21588.8	-	-	-	131.0	164.8	21588.8	-	-	-			
Cast in situ concrete wall (External walls)	B1	Walls	3	m3	30.3	164.8	4994.4	-	-	-	30.3	164.8	4994.4	-	-	-			
250mm external wall overpour	B1	Walls	3	m3	12.6	164.8	2076.5	-	-	-	12.6	164.8	2076.5	-	-	-			
Waste (5%)	B1	Walls	3	m3	0.0	164.8	0.0	-	-	-	0.0	164.8	0.0	-	-	-			
LEVEL L0	L0	Slab	3	m3	882.0	193.8	170931.6	-	-	-	882.0	193.8	170931.6	-	-	-			
Rectangular columns, Topping slab (L0 lower), Phrith	L0	Slab	3	m3	54.0	154.8	8359.2	-	-	-	54.0	154.8	8359.2	-	-	-			
Suspended concrete slab and beams	L0	Slab	3	m3	109.0	164.8	17953.2	-	-	-	109.0	164.8	17953.2	-	-	-			
Cast in situ concrete wall (External walls)	L0	Walls	3	m3	32.7	164.8	5389.0	-	-	-	32.7	164.8	5389.0	-	-	-			
250mm external wall overpour	L0	Walls	3	m3	53.9	164.8	8857.7	-	-	-	53.9	164.8	8857.7	-	-	-			
Waste (5%)	L0	Walls	3	m3	0.0	164.8	0.0	-	-	-	0.0	164.8	0.0	-	-	-			
Stage 4	B6	Slab	4	m3	73.5	154.8	11377.8	-	-	-	73.5	154.8	11377.8	-	-	-			
LEVEL B6	B6	Slab	4	m3	2.0	154.8	309.6	-	-	-	2.0	154.8	309.6	-	-	-			
Mass concrete under lift & escalator slabs	B6	Slab	4	m3	379.0	164.8	62469.2	-	-	-	379.0	164.8	62469.2	-	-	-			
Suspended concrete slab and beams	B6	Slab	4	m3	90.0	164.8	14832.0	-	-	-	90.0	164.8	14832.0	-	-	-			
Cast in situ concrete wall (External walls)	B6	Walls	4	m3	113.7	164.8	18737.8	-	-	-	113.7	164.8	18737.8	-	-	-			
250mm external wall overpour	B6	Walls	4	m3	32.9	164.8	5419.9	-	-	-	32.9	164.8	5419.9	-	-	-			
Waste (5%)	B6	Walls	4	m3	0.0	164.8	0.0	-	-	-	0.0	164.8	0.0	-	-	-			
LEVEL B4	B4	Slab	4	m3	109.0	164.8	17953.2	-	-	-	109.0	164.8	17953.2	-	-	-			
Cast in situ concrete wall (External walls)	B4	Walls	4	m3	32.7	164.8	5389.0	-	-	-	32.7	164.8	5389.0	-	-	-			
250mm external wall overpour	B4	Walls	4	m3	7.1	164.8	1170.1	-	-	-	7.1	164.8	1170.1	-	-	-			
Waste (5%)	B4	Walls	4	m3	0.0	164.8	0.0	-	-	-	0.0	164.8	0.0	-	-	-			
LEVEL B3	B3	Slab	4	m3	34.0	154.8	5263.2	-	-	-	34.0	154.8	5263.2	-	-	-			
Cast in situ concrete slab and beams	B3	Slab	4	m3	235.0	164.8	38728.0	-	-	-	235.0	164.8	38728.0	-	-	-			
Suspended concrete slab and beams	B3	Slab	4	m3	70.5	164.8	11618.4	-	-	-	70.5	164.8	11618.4	-	-	-			
250mm external wall overpour	B3	Walls	4	m3	17.0	164.8	2801.6	-	-	-	17.0	164.8	2801.6	-	-	-			
Waste (5%)	B3	Walls	4	m3	0.0	164.8	0.0	-	-	-	0.0	164.8	0.0	-	-	-			
LEVEL B2	B2	Slab	4	m3	44.0	154.8	6811.2	-	-	-	44.0	154.8	6811.2	-	-	-			
Suspended concrete slab and beams	B2	Slab	4	m3	149.0	154.8	23065.2	-	-	-	149.0	154.8	23065.2	-	-	-			
Topping slab to PCC beams	B2	Slab	4	m3	8.0	154.8	1238.4	-	-	-	8.0	154.8	1238.4	-	-	-			
Ramp slab	B2	Slab	4	m3	3.0	154.8	464.4	-	-	-	3.0	154.8	464.4	-	-	-			
Phrith	B2	Slab	4	m3	2.0	164.8	329.6	-	-	-	2.0	164.8	329.6	-	-	-			
Cast in situ concrete wall	B2	Walls	4	m3	119.0	164.8	19611.2	-	-	-	119.0	164.8	19611.2	-	-	-			
Cast in situ concrete wall (External walls)	B2	Walls	4	m3	35.7	164.8	5883.4	-	-	-	35.7	164.8	5883.4	-	-	-			
250mm external wall overpour	B2	Walls	4	m3	15.0	164.8	2472.0	-	-	-	15.0	164.8	2472.0	-	-	-			
Waste (5%)	B2	Walls	4	m3	0.0	164.8	0.0	-	-	-	0.0	164.8	0.0	-	-	-			
LEVEL B1	B1	Slab	4	m3	111.0	164.8	18292.8	-	-	-	111.0	164.8	18292.8	-	-	-			
Cast in situ concrete wall (External walls)	B1	Walls	4	m3	33.3	164.8	5487.8	-	-	-	33.3	164.8	5487.8	-	-	-			
250mm external wall overpour	B1	Walls	4	m3	7.2	164.8	1186.6	-	-	-	7.2	164.8	1186.6	-	-	-			
Waste (5%)	B1	Walls	4	m3	0.0	164.8	0.0	-	-	-	0.0	164.8	0.0	-	-	-			
LEVEL L0	L0	Slab	4	m3	58.0	154.8	8978.4	-	-	-	58.0	154.8	8978.4	-	-	-			
Topping slab	L0	Slab	4	m3	203.0	154.8	31424.4	-	-	-	203.0	154.8	31424.4	-	-	-			
Suspended concrete slab and beams	L0	Slab	4	m3	25.0	164.8													

CBGU D&C JV

AREA	Level	Element	STAGE	UCM	Cost Plan Tender Quantity			REVISED BUDGET (Based on Heinrich cty's, Rockdown Cty's, wall overpour & waste)			ACTUAL (COST TO DATE)			COST TO COMPLETE			FORECAST COST AT COMPLETION (Quantities not included in cost plan tender quantity - wall overpour & waste, site establishment, topping slabs, misc. structural design changes & temporary works)			Comments
					Budget Quantity (m3)	Rate	Budget Total	Budget Quantity (m3)	Rate	Budget Total	Actual Quantity (m3)	Actual Rate	Total	Quantity (m3)	Rate	Total	Quantity (m3)	Rate	Total	
Cast in situ concrete all pit wall	L0	Walls	7	m3																
Cast in situ concrete wall	L0	Walls	7	m3																
Cast in situ concrete wall (External walls)	L0	Walls	7	m3																
Waste (5%)	L0	Walls	7	m3																
LEVEL L1																				
Rectangular columns	L1	Slab	7	m3																
Superimposed concrete slab and beams	L1	Slab	7	m3																
Cast in situ concrete wall	L1	Walls	7	m3																
Cast in situ concrete wall (External walls)	L1	Walls	7	m3																
Waste (5%)	L1	Walls	7	m3																
LEVEL L2																				
Superimposed concrete slab and beams	L2	Slab	7	m3																
Cast in situ concrete wall	L2	Walls	7	m3																
Cast in situ concrete wall (External walls)	L2	Walls	7	m3																
Waste (5%)	L2	Walls	7	m3																
LEVEL L3																				
Superimposed concrete slab and beams	L3	Slab	7	m3																
Cast in situ concrete wall	L3	Walls	7	m3																
Cast in situ concrete wall (External walls)	L3	Walls	7	m3																
Waste (5%)	L3	Walls	7	m3																
ALL LEVELS																				
Concrete slabs & lintels	Varies	Varies	7	m3																
Waste (5%)	Varies	Varies	7	m3																
Mass Concrete fill at Station Platform	B0	Infill		m3																
CONCRETE SURCHARGES & TESTING																				
Out of hours delivery, returned concrete, etc.		Surcharge		m3																
Plant Operation Fee (25% of total number of hours)		Surcharge		each																
March specification requirement TSC		Surcharge		m3																
Additional cylinders		Surcharge		each																
Assume 25% of trucks require extra cylinders		Surcharge		each																
5000 Bulk Surcharge		Surcharge		each																
Stage 3 JFC Increase		Surcharge		each																
SITE ESTABLISHMENT																				
WORKS																				
T01 Crane Base Pile Cap - Shikote	Site			m3																
T01 Crane Base Pile Cap - Binding	Site			m3																
T01 Crane Base Pile Cap	Site			m3																
T02 Crane Base Pile Cap - Shikote	Site			m3																
T02 Crane Base Pile Cap - Binding	Site			m3																
T02 Crane Base Pile Cap	Site			m3																
Fire Test Panels - Surchw	Site			m3																
Fire Test Panels - Additional Cylinders & Testing	Site			m3																
Container Site	Site			m3																
5000 Crane Site - Binding	Site			m3																
5000 Crane Site - Binding	Site			m3																
5000 Crane Site - Binding	Site			m3																
Max Trials - Hanson Yr (500)	Site			m3																
Thermal Bore	Site			m3																
Force bolts along Vulture St	Site			m3																
Quality Footings	Site			m3																
Excavation	Site			m3																
Excavation	Site			m3																
May 20 Financial Check																				
REMAINING WORKS - Stanley St. Bridge, Stage 5, 6, surface works																				
Items as per budget																				
Preventive, Stanley St. bridge retaining wall, water																				
Stage 5 & 6 (Cavens)																				

2

Russo, Paul

From: Russo, Paul
Sent: Monday, 25 May 2020 4:25 PM
To: Russell, Chris; Church, Rory
Cc: Perkins, Justin; Purcell, Joel; Thai (Nguyen), Maree; Lincoln, Peter
Subject: RE: Cost Code Review
Attachments: Q80379 PR Comments.xlsx

Chris/Justin,

See comments below & attached spreadsheet.

Regards

Paul Russo

Project Engineer



Level 3, North Tower, 339 Coronation Drive, Milton, QLD 4064, Australia

T M 0417 247 069

E Paul.Russo@cbgujv.com.au

From: Russell, Chris <Chris.Russell@cbgujv.com.au>
Sent: Monday, 25 May 2020 9:55 AM
To: Church, Rory <Rory.Church@cbgujv.com.au>; Russo, Paul <Paul.Russo@cbgujv.com.au>
Cc: Perkins, Justin <Justin.Perkins@cbgujv.com.au>; Purcell, Joel <Joel.Purcell@cbgujv.com.au>; Thai (Nguyen), Maree <Maree.ThaiNguyen@cbgujv.com.au>; Lincoln, Peter <Peter.Lincoln@cbgujv.com.au>
Subject: RE: Cost Code Review

Please can we get an update on the actions below and attached by the end of the day

Regards

Chris Russell

Project Manager



Level 3, North Tower, 339 Coronation Drive, Milton, QLD 4064, Australia

T +0418 295 928 **M** 0418 295 928

E Chris.Russell@cbgujv.com.au

From: Russell, Chris
Sent: Friday, 22 May 2020 12:01 PM
To: Church, Rory <Rory.Church@cbgujv.com.au>; Russo, Paul <Paul.Russo@cbgujv.com.au>
Cc: Perkins, Justin <Justin.Perkins@cbgujv.com.au>; Purcell, Joel <Joel.Purcell@cbgujv.com.au>; Thai (Nguyen), Maree

2

<Maree.ThaiNguyen@cbgujv.com.au>; Lincoln, Peter <Peter.Lincoln@cbgujv.com.au>

Subject: Cost Code Review

Notes and actions from call:

22105 – calculate a forecast rate instead of using the budget rate. Look at CATs complex resource for details. Review quants for temporary openings

22110 – forecast out using programme breakdown, FRP pricing schedule, and GRC measure using tender rates. Need to update with concrete pumping element pulled out.

- See attached spreadsheet for comment

22115 – forecast as above, and amend in relation to concrete pumping

- See attached spreadsheet for comment

22140 – to be updated with GRC quants and Hanson rates (Hanson rates to be included for all codes)

- Broken down in line with GRC quants
- Have input Hanson rates
- Forecast out expected concrete surcharges (additional testing, out of hours, plant opening fees etc
- Included wastage. Have allowed 30% for external walls, 5% elsewhere
- Left a number of line items untouched from CATS where we don't have enough information to forecast for e.g. above ground works like retaining walls, pavements, Stanley St. bridge etc
- Line item at the bottom of the sheet to allow for design growth/contingency. Quantities to be updated with GRC re-measure at DD

22145 – Quants as per GRC, need to update with awarded contract rates

- Input rates from supply contract
- Note that there is no current rate for prefab wall cages. Have used prefab pile cage in lieu of this (noted on the sheet)

22150 – likely to be transferred to FRP packages

- Noted

22155 – Quants to be finalised, refer to CATs complex resource code. Likely that some of this will transfer to FRP code

22190 – Forecast out on actual rates received, ensure we include all connections etc for megaflo and include a 50mm protection layer

- There is an Allowance for megaflo connections in open trenching line item (separate from excavation)
- Input actual rates for cavidrain supply
- Showing 83k loss

Regards

Chris Russell

Project Manager



Cross River Rail - Tunnels and Stations

CBGU D&C JV

②

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2

Cost Code	Actions/ Comments	PR Comments
22105	- Develop rate for plinths. Refer CATS breakdown for complex resources. - Check qty of peno infill budget vs forecast against current design	
22110	- Split out pumping from rates - Detail construction joints - Break out pre-fab cages separately.	Pumping line item added as a negative value down the bottom of the sheet (1.468 million). To be taken out of each individual line items next month. Note this was only 4k off the transfer to 20180 which is encouraging Contingency line item for design growth added down the bottom. Will be soaked up with expected increase in quantities as advised by GRC
22115	- Split out pumping from rates - Detail construction joints	Same as above. Pumping quantity is almost 100k different from transfer to 20180. This number will need to be interrogated further. Note the code is currently showing 800k loss against budget. Expected to change with GRC remeasure next month.
22140	- Breakdown in line with GRC Breakdown. - Forecast rates in line with awarded contract. - Check rates for Mass Fill in Caverns and behind external walls.	See email to CR
22145	- Forecast rates in line with awarded contract. - Break out pre-fab cages separately. - Quantify additional couplers due to revised methodology and include in forecast.	Input rates from Mesh & bar Noted pre-fab cages. Only rate provided is for pile cages which has been used Couplers still to be quantified. Need to confirm size & spacing for Level B6 - L0 Line item for contingency/design growth inserted at bottom of sheet in anticipation for GRC re-measure
22150	Majority will move to FRP as tie wire and bar chairs etc.	
22155	Budget for supply and install to be identified and transferred to FRP for relevant items including rearguard and waterstop.	
22190	- Open Trenching to be isolated. - Update with rates received. - Isolate excavation from trenching items. - Move wastage qty from rate to qty.	- Open trenching item isolates - Updated with rates received. Note an increase in rate by \$6/m2 plus butyl tape - Isolated excavation - Allowed for 10% wastage - Currently showing 80k loss. Suggest we await pricing from FRP contractor/specialist contractor before realising this loss (if any)

Are you missing a code?	32,025,468	232,248,861	235,223,193	2,333,112
MISSING RE VS	0	0	0	0

Day	Survey	Total Score's	Total CTC	Day Rate
10/24/04	Survey	6,279	659,243	3.650
		4,539	478,595	3.460

See Surveyor - Site Works
See Surveyor - Site Management, BIM, Cost of, Under

Sauratya - Structures
 Sauratya - Structures (147%)
 Sauratya - Cavities
 Sauratya - Archimedes at 14.0 and 14.1
 Sauratya - Public Studies
 Sauratya - Equipment

Journal Citation Reports

position	level	value
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1	1
11	1	1
12	1	1
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94	1	1
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98	1	1
99	1	1
100	1	1

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Russo, Paul

From: Russo, Paul
Sent: Tuesday, 30 April 2019 7:46 AM
To: Milestone, Scott; West, Sam; Fennell, Samuel; McIntosh, Justine
Subject: 62500 - BR02 GIRDER INSTALLATION
Attachments: BR02 Girder Cost Rev. 1.xlsx; Q01061 - Star Query - 62000_BR02 APR_PR Rev 1.xlsm

Sam/Scott,

Refer attached detailed build up showing Freo costs for BR02 girders. This is based off the March/April claim.

Summary:

- Freo costs for April
 - \$153,079
 - Double Handling - \$21,752.50
 - Installation Span 5, 6 & 7 - \$131,327 (Mob/demob, erect, jinkers)

Double Handle	\$21,752.5
Install	\$57,621.88
Jinkers	\$40,455.25
Mob/demob	\$33,249.88

Updating SQ sheets this results in a rate for BR02 thus far of:

- \$5,741.47 for install
- \$4624.1 for double handling (not including EWP) use.

Points to consider:

- I have split out the costs to double handling, mob/demob, installation & jinkers. Currently I have the mob/demob, install & jinkers bundled up in my installation cost
- Span 5 was installed across two days. On 4/4, the day docket notes that the crew were pulled off install to aid in the CPB 280t 10 year inspection, with the last two girders installed the following day which has inflated the cost
- On a good day, we double handle girders in the laydown yard for \$780 (1 x rigger & 1 x operator). On other numerous days, there are more riggers being utilised for other lifting activities in the laydown which are being charged to the code. We need to further scrutinise the daily dockets to adequately distribute the costs accordingly.
- EWP is on hire every day at the laydown and has not been stood down once. The above does not consider the 10k costs we have incurred for EWPs, however I need to interrogate this number further to determine if it has been adequately shared amongst the codes
- Suggest we have a workshop with Pete & Geoff prior to the next girder install to review where we can reduce costs (amount of riggers, use of CPB franna to move steel plates etc).

Based on the above and historical productivity we need to show a movement of \$177k 62500 and revise our target install rate to \$5000/girder for erection & \$4,500/girder for double handling.

Regards

Paul Russo
Project Engineer



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Woolloongabba Station

Stage 1 PreTBM Works - Underground Primary Structure Works Q80379-WG-WC-20306 Overall account reconciliation

Forecast	\$	Proposed (target) final account
22110	4,227,574.86	4,163,663.93
22111	93,995.00	93,995.00
Total	4,321,569.86	4,257,658.93

787,164.86 3,376,499.07

Breakdown of proposed (target) final account

Reference	Description	Forecast cost code	Variation in forecast	Approved	Under assessment - CBGU / queries	Notes
	Contract sum	22110		3,440,410.00	82,631.25	Forecast saving on works not complete or other forecast item
VAR-01	CD#1 - B3 blinding layer	22110	Yes	2,925.00		
VAR-02	CD#3 - Acceleration direction	22110	Yes	277,175.25		
VAR-03	CD#2 - B8 Dental concrete	22110	Yes	25,967.21		
VAR-04	CD#5 - B9 Dental concrete	22110	Yes	28,669.00		
VAR-05	CD#7 - Heinrich Pig Tails	22110	Yes	3,204.00		
VAR-06	CD#9 - B9 Internal and External Walls - Onsite assembly area	22110	Yes	8,406.00		
VAR-07	CD#8 - Propping TBM conveyor table	22110	Yes		5,000.00	
VAR-08	CD#10 - Installation of Penetrations	22110	Yes		3,560.00	
VAR-09	CD#11 - Propping of W29	22110	Yes		9,966.00	
VAR-10	CD#6 - Stage 2 works to complete in stage 1	22111	Yes	93,995.25		
VAR-11	CPB exec direction - bonus for completion of B8 suspended slab	22110	Yes	200,000.00		
VAR-12	Design change - SW3	22110	Yes		68,941.00	
VAR-13	Design change - W29	22110	Yes		227,595.72	Combined review
VAR-13	Design change - Slab thickness reduction in qty	22110	Yes		55,524.00	
VAR-14	CD#04 - Design updates	22110	Yes		-	Nothing submitted
4,080,751.71 -					176,907.22	
					176,907.22	

Rocktown final account.
Helped with development of final reconciliation.

Attachment 6

1.2B

Woolloongabba Station
Q80379-00-WG-WC-20321 FRP stages 2,3,4 & 7
VAR-006 Penetrations to the SW2 wall

Heinrich correspondence

27/05/2021 - additional work to provide penetrations to the SW2 wall as per variation notices 2 & 5.

Code	Description	CONTRACTOR submission				CBGU review				Difference	Notes
		Quantity	Unit	Rate	Total	Quantity	Unit	Rate	Total		
	Form 3 No. 1200 x 1200 penetrations in wall x 700 deep underside B 7, B 3, B 1 slabs										
	All work will be done out of sequence when the temporary services are removed.										
	One peno underside B1 formed as full peno, one underside of B3 formed in 2 wall pours (bottom 1 pour & top in another pour) and one underside B 7 formed as full peno										
	Supply & place waterstop to edges - 1 rows	15	lm	124.35	1,865.25	14.4	lm	124.35	1,790.64	-74.61	4 x 1.2m side
	Form edges of penetrations	10	m2	350.00	3,500.00	10	m2	350.00	3,500.00	0.00	
	Supply and place couplers to edges - 2 rows	15	lm	380.00	5,700.00	9.6	lm	380.00	3,648.00	-2052.00	4 x 1.2m side x 2 rows
	Reform single sided face of penetrations - overform for fixing and bracing will be 1.8 x 1.8 and propping off slabs below	10	m2	421.84	4,218.40	4.32	m2	421.84	1,822.35	-2396.05	measurement 3*1.2*1.2
	Credit for formwork not installed initially					4.32	m2	- 421.84	- 1,822.35	-1822.35	Credit for formwork not installed initially
	Brace plywood to back face of penetration off rock to keep thickness of infill to 700mm - 2 men 3 hrs each	18	hrs	130.00	2,340.00				0	-2340.00	This is not required as this will be a singled sided wall against shotcrete once single sided pipework is removed.
	Form letter box in top of penetration to pour	3	No.	150.00	450.00	3	No.	150.00	450.00	0.00	
	Chip off excess concrete & patch letterbox with concrete / grout & dress up finish to penetration - 1 man 2 hrs each	6	hrs	130.00	780.00	6	hrs	130.00	780.00	0.00	
	Pour concrete - can't be done on M3 rate - done on day labour - 2 men 2.5 hrs each - taken down in hoist in wheelbarrow and then clean up the mess pouring the penos - 3M3	15	hrs	130.00	1,950.00	15	hrs	130.00	1,950.00	0.00	
	Less credit due for concrete not placed initially					3.024	m3	- 280.00	- 846.72	-846.72	4.32m2 x 700mm
	Reinforcement - can't be done on tonnage - will be day labour - carried down to levels in man hoist - tied using scissor lift - 2 men 4 hrs each	24	hrs	120.00	2,880.00	24	hrs	120.00	2,880.00	0.00	
	Less credit for tonnage of reo which will later be paid as part of the SOR					0.756	t	- 987.00	- 746.17	-746.17	3.024m3 x 0.25t
	Scissor lift to form up, pour concrete, install waterstop, rectification to letter box and tie reinforcement	Item			200.00				200.00		
	Form 2 No. 1000 x 1000 penetrations in wall x 700 deep underside B 3 and above B 2 slabs										
	All work will be done out of sequence when the temporary services are removed.										
	Both penos formed as full penos										
	Supply & place waterstop to edges - 1 rows	8	lm	124.35	994.80	8	lm	124.35	994.80	0.00	
	Form edges of penetrations	6	m2	350.00	2,100.00	2	no	150.00	300.00	-1800.00	Contract rate for formwork for "sundry wall penetrations - 1x1m is \$150 each
	Supply and place couplers to edges - 2 rows	8	lm	380.00	3,040.00	8	lm	380.00	3,040.00	0.00	
	Reform single sided face of penetrations - overform for fixing and bracing will be 1.3 x 1.3	4	m2	421.84	1,687.36	4	m2	421.84	1,687.36	0.00	
	Credit for formwork not installed initially					4	m2	- 421.84	- 1,687.36	-1687.36	Credit to be applied for wall not formed in the first place
	Brace plywood to back face of penetration off rock to keep thickness of infill to 700mm - 2 men 2 hrs each	8	hrs	130.00	1,040.00				0	-1040.00	This is not required as this will be a singled sided wall against shotcrete once single sided pipework is removed.
	Form letter box in top of penetration to pour	2	No.	150.00	300.00	2	No.	150.00	300.00	0.00	
	Chip off excess concrete & patch letterbox with concrete / grout & dress up finish to penetration - 1 man 2 hrs each	4	hrs	130.00	420.00	4	hrs	130.00	520.00	100.00	2 hours each penetration
	Pour concrete - can't be done on M3 rate - done on day labour - 2 men 2.0 hrs each - taken down in hoist in wheelbarrow and then clean up the mess pouring the penos - 1.5M3	8	hrs	130.00	1,040.00	8	hrs	130.00	1,040.00	0.00	
	Less credit for pump and place quantity based on contract rate					2.448	m3	- 280.00	- 685.44	-685.44	1.224m3 x 2
	Reinforcement - can't be done on tonnage - will be day labour - carried down to levels in man hoist - tied using scissor lift - 2 men 2.5 hrs each	10	hrs	120.00	1,200.00	10	hrs	120.00	1,200.00	0.00	
	Less credit for tonnage of reo which will later be paid as part of the SOR					0.5	t	- 987.00	- 493.50	-493.50	250kg of steel per penetration.
	Scissor lift to form up, pour concrete, install waterstop, rectification to letter box and tie reinforcement	Item			100.00				100.00	0.00	
	Form 1 No. 3000 x 1000 penetration in wall x 700 deep underside B 7 slab										
	All work will be done out of sequence when the temporary services are removed.										
	Penos formed as full penos										
	Supply & place waterstop to edges - 1 rows	7	lm	124.35	870.45	7	lm	124.35	870.45	0.00	
	Form edges of penetrations	5	m2	350.00	1,750.00	5	m2	350.00	1,750.00	0.00	
	Supply and place couplers to edges - 2 rows	7	lm	380.00	2,660.00	7	lm	380.00	2,660.00	0.00	
	Reform single sided face of penetrations - overform for fixing and bracing will be 3.3 x 2.0	6	m2	421.84	2,531.04	3.00	m2	421.84	1,265.52	-1265.52	Total area is 3m2
	Credit for formwork					3	m2	- 421.84	- 1,265.52	-1265.52	
	Brace plywood to back face of penetration off rock to keep thickness of infill to 700mm - 2 men 3 hrs each	6	hrs	130.00	780.00				0	-780.00	This is not required as this will be a singled sided wall against shotcrete once single sided pipework is removed.
	Form letter box in top of penetration to pour	1	No.	150.00	150.00	1	No.	150.00	150.00	0.00	
	Chip off excess concrete & patch letterbox with concrete / grout & dress up finish to penetration - 1 man 2 hrs each	2	hrs	130.00	260.00	2	hrs	130.00	260.00	0.00	
	Pour concrete - can't be done on M3 rate - done on day labour - 2 men 3.0 hrs each - taken down in hoist in wheelbarrow and then clean up the mess pouring the penos - 2.1M3	6	hrs	130.00	780.00	6	hrs	130.00	780.00	0.00	
	Less credit for pump and place quantity based on contract rate					2.10	m3	- 241.69	- 507.55	-507.55	3 x1x 0.7
	Reinforcement - can't be done on tonnage - will be day labour - carried down to levels in man hoist - tied using scissor lift - 2 men 3.0 hrs each	6	hrs	120.00	720.00	6	hrs	120.00	720.00	0.00	
	Less credit for tonnage of reo which will later be paid as part of the SOR					0.525	t	- 987.00	- 518.18	-518.18	2.1 x 0.25t
	Scissor lift to form up, pour concrete, install waterstop, rectification to letter box and tie reinforcement	Item			100.00				100.00	0.00	
	No scabbling allowed to penetration edges										
	TOTAL				46,407.30				26,186.33		