





Our ref: 25.1.201/GC/3939

02 November 2009

tie limited CityPoint 65 Haymarket Terrace Edinburgh EH12 5HD Bilfinger Berger-Siemens- CAF Consortium

BSC Consortium Office 9 Lochside Avenue Edinburgh Park Edinburgh EH12 9DJ United Kingdom

Phone: +44 (0) 131

For the attention of Steven Bell - Tram Project Director

Dear Sirs.

Edinburgh Tram Network Infraco Infraco Contract – Infraco Notification of tie Change (INTC) No 1 Extension of Time 1

In accordance with the Memorandum of Understanding between tie, Bilfinger Berger and Siemens of 30 October 2009, we hereby submit our revised estimate in the sum of £3,524,000.

The substantiation for each of the individual Estimates is enclosed and can be summarised as follows:

 Bilfinger Berger
 £2,225,000

 Siemens
 £1,299,000

 Total
 £3,524,000

As agreed, we have also included a narrative with each of the submissions from Bilfinger Berger and Siemens detailing the different methods of valuation which in accordance with the aforementioned memorandum shall form the basis of evaluation of any further extensions of time.

We look forward to your formal acceptance of the enclosed Estimate and the methods of valuation to be used going forward.

Please note that the enclosed Estimate makes no allowance or provision in respect of any CAF costs, if any, and their treatment, which have still to be addressed.

Yours faithfully,



Project Director Bilfinger Berger Siemens CAF Consortium

cc: JD, DG, KR, MB (Siemens)

Billinger Berger UK Limited Registered Office: 7400 Daresbury Park, Warrington, Cheshire, WA4 4BS. Registered In England & Wates Company No: 2418086 Stemens UK ptc. Registered Office: Stemens House Oldbury Bracknell Berkshire RG12 8FZ. Registered in England & Wates Company No: 727817 Construcciones Y Auxiliar de Ferrocamiles S.A. Registered Office J.M. Iturriotz 26, 20200 Beasain, Gipuzkoa. Registered in Spain. CIF: A-20001020

Bilfinger Berger UK Limited

Infraco Notification of tie Change Nr 01 Estimate

02 November 2009

- In accordance with the Memorandum of Understanding concluded between tie, Bilfinger Berger and Siemens on 30 October 2009, Bilfinger Berger hereby submit its revised Estimate in the sum of Two Million, Two Hundred and Twenty Five Thousand Pounds (£2,225,000).
- 2. This estimate has been prepared in accordance with the method of valuation agreed between the parties on 22, 23 and 30 October 2009. The parties have agreed that Bilfinger Berger prolongation costs are to be calculated using Schedule 4, Appendix F, Spreadsheet 2 and Siemens prolongation costs are to be calculated based on Actual Cost or estimated Actual Cost.
- The methods of valuation set out in this Estimate shall form the basis of evaluation of any further extensions of time.
  - 3.1. Bilfinger Berger Preliminaries are identified on Schedule 4, Appendix F, Spreadsheet 2 and include all 'Preliminaries and General Items' and 'Method Related Charges'.
  - 3.2. All Bilfinger Berger Preliminaries identified as 'Time-Related' on Schedule 4, Appendix F, Spreadsheet 2 have been recovered within this Estimate except items 34 and 49 which have been specifically excluded by agreement of the parties for this Infraco Notification of tie Change 1 Estimate only.
  - 3.3. Escalation has been applied to all Bilfinger Berger Preliminaries which are extended beyond the Section D completion date.
- 4. All Bilfinger Berger Preliminaries will be recoverable for any further Extensions of Time in accordance with this Estimate.
- 5. Escalation will apply to all Preliminaries and Construction costs which extend beyond 16 July 2011 (original Section D completion date) at a rate of 2.76% per annum. The calculation of escalation on Preliminaries for any further Extensions of Time will be calculated as set out in this Estimate. The calculation of escalation on Construction costs will be calculated based on the same principles as set out in this Estimate.

	Prolongation Estimate - V26 to V31 Bilfinger Berger Preliminaries				-			-	-		02 November 2009
	Sectional Completion EoT										
Item	Section	V26 Start	V26 Finish	V26 Duration	V31 Start	V31 Finish	V31 Duration	1	-	Prolongation	Total Cost
1	Section A (Depot)	02 June 2008	25 March 2010	O. College D. Liberton P. College	27 June 2008	01 June 2010	100.60			5.80	149,074.54
2	Section B (Test Track)	14 May 2008	23 April 2010		14 May 2008	01 July 2010	111.40			9.80	
3	Section C (Testing and Commissioning)	14 May 2008	17 January 2011		14 May 2008	10 March 2011	147.40	14		7.60	2,059,139.76
4	Section D (Revenue Commencement Date)	17 January 2011	16 July 2011		10 March 2011	06 September 2011	26.00			0.00	
				A STATE OF THE STA				-			2,208,214.30
									Escalation		21,614.36
											0.000.000.00
								Travers to the second second	Total Prolongat		2,229,828.66
								Bilfinger Berger	Agreement f	or INTC 01	£ 2,225,000.00
Item	Section A (Depot) Contract Prelims	hyac com	V26 Finish	V26 Duration	V31 Start	V31 Finish	V31 Duration	Total Cost (V26)	Weekly Rate	Prolongation	Total Cost
5	Depot Subcontractor Section A Supervision	V26 Start 02 June 2008	25 March 2010		27 June 2008	01 June 2010	100.6	1,147,710	- AVAILABLE TO THE PARTY OF THE		70,218.54
6	Depot Subcontractor Section A Establish Site Services Welfare etc.	02 June 2008	25 March 2010		27 June 2008 27 June 2008	01 June 2010	100.6	1,146,710	12,100.03	5.8	10,210.54
7	Depot Subcontractor Section A Scaffolding & Misc Plant	02 June 2008	25 March 2010		27 June 2008	01 June 2010	100.6	717,319			43,886.59
8	Depot Subcontractor Section A Insurance & Bond	02 June 2008	25 March 2010	7.00	27 June 2008	01 June 2010	100.6	243,888			14,921.44
9	Depot Subcontractor Section A Establish and Maintain Compound	02 June 2008			27 June 2008	01 June 2010	100.6	43,787			2,678.98
10	Depot Subcontractor Section A Non productive Labour	02 June 2008	25 March 2010		27 June 2008	01 June 2010	100.6	283,893			17,369.00
								2,436,597.69			149,074.54
ltore	Section C (Testing and Commissioning)	1						1-11-12	in the	Burgar and	TitalCost
Item	(Airport to Haymarket)		V26 Finish	V26 Duration	V31 Start	V31 Finish	V31 Duration	Total Cost (V26)	Weekly Rate	Prolongation	Total Cost
11	BB High Level - Section A	14 May 2008			14 May 200			0.700.000		5.80	404 400 00
12	BB High Level - Section A  BB High Level - Section A	14 May 2008	09 November 2010		14 May 200	8 20 December 201		2,722,909			121,483,63
	BB - Section A (5C (depot to 5B), 5B)	22.142222	120	169.0	12 1 200	00 0	176.6	564,161			25,370.54 224,515.38
15	Section A (2A, 5A)	23 May 2008	13 October 2010		13 June 200			5,388,369			163,020.27
10	oscioli of feet and	14 May 2008	13 October 2010	126.2	14 May 200	8 09 December 201	0 134.4	2,508,922	19,881	8.20	103,020.27

6 Depot Subcontractor Section A Establish Site Services Welfare etc.	02 June 2008	25 March 2010	94.8	27 June 2008	01 June 2010	100.6		8.	5.8	*
7 Depot Subcontractor Section A Scaffolding & Misc Plant	02 June 2008	25 March 2010	94.8	27 June 2008	01 June 2010	100.6	717,319	7,566.65	5.8	43,886.59
8 Depot Subcontractor Section A Insurance & Bond	02 June 2008	25 March 2010	94.8	27 June 2008	01 June 2010	100.6	243,888	2,572.66	5.8	14,921.44
9 Depot Subcontractor Section A Establish and Maintain Compound	02 June 2008	25 March 2010	94.8	27 June 2008	01 June 2010	100.6	43,787	461.89	5.8	2,678.98
10 Depot Subcontractor Section A Non productive Labour	02 June 2008	25 March 2010	94.8	27 June 2008	01 June 2010	100.6	283,893	2,994.65	5.8	17,369.00
							2,436,597.69			149,074.54
Section C (Testing and Commissioning)										
Item (Airport to Haymarket)	V26 Start	V26 Finish	V26 Duration		/31 Finish \	31 Duration	Total Cost (V26)	Weekly Rate	Prolongation	Total Cost
11 BB High Level - Section A	14 May 2008	09 November 2010	130.0	14 May 2008	20 December 2010	135.8		Language Compa	5.80	
12 BB High Level - Section A	14 May 2008	09 November 2010	130.0	14 May 2008	20 December 2010	135.8	2,722,909	20,945	5.80	121,483.63
BB High Level - Section A			169.0			176.6	564,161	3,338	7.60	25,370.54
14 BB - Section A (5C (depot to 5B), 5B)	23 May 2008	13 October 2010	124.8	13 June 2008	09 December 2010	130.0	5,388,369	43,176	5.20	224,515.38
15 Section A (2A, 5A)	14 May 2008	13 October 2010	126.2	14 May 2008	09 December 2010	134.4	2,508,922	19,881	8.20	163,020.27
16 Section A (2A, 5A)	14 May 2008	13 October 2010	126.2	14 May 2008	09 December 2010	134.4		- 4	8.20	=
17 Section A (2A, 5A)	14 May 2008	13 October 2010	126.2	14 May 2008	09 December 2010	134.4	2,689,180	21,309	8.20	174,732.76
18 Section A (2A, 5A)	14 May 2008	13 October 2010	126.2	14 May 2008	09 December 2010	134.4	197,862	1,568	8.20	12,856.36
Section A (5C (depot to sect 7), 7)	14 May 2008	18 March 2010	96.4	14 May 2008	28 June 2010	110.8		-	14.40	-
20 Section A (5C (depot to sect 7), 7)	14 May 2008	18 March 2010	96.4	14 May 2008	28 June 2010	110.8	1,432,030	14,855	14.40	213,913.26
21 Section A (5C (depot to sect 7), 7)	14 May 2008	18 March 2010	96.4	14 May 2008	28 June 2010	110.8	2	2	14.40	*
							15,503,433.24	-	Sub Total	935,892.20
Item (Haymarket to Newhaven)	V26 Start	V26 Finish	V26 Duration	V31 Start	V31 Finish	/31 Duration	Total Cost (V26)	Weekly Rate	Prolongation	Total Cost
BB High Level - Section B	01 August 2008	17 January 2011	128.4	05 August 2008	10 March 2011	135.6	-		7.2	-
BB High Level - Section B	01 August 2008	17 January 2011	128.4	05 August 2008	10 March 2011	135.6	1,485,223	11,567	7.2	83,283.54
BB High Level - Section B			169.0			176.6	564,161	3,338	7.6	25,370.54
25 BB - Section B (1B)	01 August 2008	11 March 2011	136.2	01 August 2008	11 March 2011	136.2			0.0	8
26 BB - Section B (1B)	01 August 2008	11 March 2011	136.2	01 August 2008	11 March 2011	136.2	1,853,813	13,611	0.0	2
27 Section B (1C, 1D)	05 January 2009	10 September 2010	88.0	05 January 2009	04 October 2010	91.2	2,294,666	26,076	3.2	83,442.41
28 Section B (1A)	Control of Control							20,010		
29 Section B (1A)	03 November 2008	15 September 2010	97.6	31 October 2008	22 November 2010	107.4	-	20,010	9.8	
	03 November 2008 03 November 2008	15 September 2010 15 September 2010		31 October 2008 31 October 2008	22 November 2010 22 November 2010	107.4 107.4	2,270,208			227,951.21
30 Section B (1A)		15 September 2010	97.6 97.6 97.6					·*:	9.8	216,269.71
30   Section B (1A)	03 November 2008	15 September 2010	97.6	31 October 2008	22 November 2010	107.4	2,270,208	23,260 22,068	9.8 9.8	
	03 November 2008 03 November 2008	15 September 2010 15 September 2010	97.6	31 October 2008 31 October 2008	22 November 2010 22 November 2010	107.4 107.4	2,270,208 2,153,870 10,621,940.52	23,260 22,068	9.8 9.8 9.8 Sub Total	216,269.71 636,317.42
tem Consortium Prelim Costs	03 November 2008 03 November 2008	15 September 2010 15 September 2010	97.6	31 October 2008 31 October 2008	22 November 2010 22 November 2010	107.4	2,270,208 2,153,870 10,621,940.52	23,260 22,068	9.8 9.8 9.8	216,269.71
tem Consortium Prelim Costs	03 November 2008 03 November 2008	15 September 2010 15 September 2010	97.6 97.6	31 October 2008 31 October 2008	22 November 2010 22 November 2010	107.4 107.4	2,270,208 2,153,870 10,621,940.52	23,260 22,068	9.8 9.8 9.8 Sub Total	216,269.71 636,317.42
tem Consortium Prelim Costs  Contractual Requirements Section A	03 November 2008 03 November 2008 V26 Start	15 September 2010 15 September 2010 V26 Finish	97.6 97.6 V26 Duration	31 October 2008 31 October 2008 V31 Start	22 November 2010 22 November 2010 V31 Finish	107.4 107.4 /31 Duration	2,270,208 2,153,870 10,621,940.52 Total Cost (V26)	23,260 22,068 Weekly Rate	9.8 9.8 9.8 Sub Total Prolongation	216,269.71 636,317.42 Total Cost
Contractual Requirements Section A Contractor's bond	03 November 2008 03 November 2008 V26 Start	15 September 2010 15 September 2010 V26 Finish	97.6 97.6 V26 Duration	31 October 2008 31 October 2008 V31 Start	22 November 2010 22 November 2010 V31 Finish	107.4 107.4 /31 Duration	2,270,208 2,153,870 10,621,940.52 Total Cost (V26)	23,260 22,068 Weekly Rate	9.8 9.8 9.8 Sub Total Prolongation	216,269.71 636,317.42 Total Cost 58,855.64
Contractual Requirements Section A  Contractor's bond  All other insurance required by the Contract	03 November 2008 03 November 2008 V26 Start	15 September 2010 15 September 2010 V26 Finish	97.6 97.6 V26 Duration	31 October 2008 31 October 2008 V31 Start	22 November 2010 22 November 2010 V31 Finish	107.4 107.4 /31 Duration 173.0 173.0	2,270,208 2,153,870 10,621,940.52 Total Cost (V26)	23,260 22,068 Weekly Rate	9.8 9.8 9.8 Sub Total Prolongation 7.40 7.40	216,269.71 636,317.42 Total Cost
Contractual Requirements Section A  Contractor's bond  All other insurance required by the Contract  Accommodation for the Engineer's and Client's Staff; establish and remove offices	03 November 2008 03 November 2008 V26 Start	15 September 2010 15 September 2010 V26 Finish	97.6 97.6 V26 Duration	31 October 2008 31 October 2008 V31 Start	22 November 2010 22 November 2010 V31 Finish	107.4 107.4 /31 Duration 173.0 173.0 147.4	2,270,208 2,153,870 10,621,940.52 Total Cost (V26)	23,260 22,068 Weekly Rate	9.8 9.8 9.8 Sub Total Prolongation 7.40 7.40 7.60	216,269.71 636,317.42 Total Cost 58,855.64
Contractual Requirements Section A  Contractor's bond  All other insurance required by the Contract  Accommodation for the Engineer's and Client's Staff; establish and remove offices  Accommodation for the Engineer's and Client's Staff; maintain and operate offices	03 November 2008 03 November 2008 V26 Start 14 May 2008 14 May 2008	15 September 2010 15 September 2010 V26 Finish 16 July 2011 16 July 2011	97.6 97.6 V26 Duration	31 October 2008 31 October 2008 V31 Start 14 May 2008 14 May 2008	22 November 2010 22 November 2010 V31 Finish 06 September 2011 06 September 2011	107.4 107.4 /31 Duration 173.0 173.0	2,270,208 2,153,870 10,621,940.52 Total Cost (V26)	23,260 22,068 Weekly Rate 7,953 9,861	9.8 9.8 9.8 Sub Total Prolongation 7.40 7.40 7.60 7.60	216,269.71 636,317.42 Total Cost 58,855.64 72,974.29
Contractual Requirements Section A  Contractor's bond  All other insurance required by the Contract  Accommodation for the Engineer's and Client's Staff; establish and remove offices  Accommodation for the Engineer's and Client's Staff; maintain and operate offices  Services for Engineer's and Client's Staff; maintain and operate transport vehicles	03 November 2008 03 November 2008 V26 Start 14 May 2008 14 May 2008 14 May 2008	15 September 2010 15 September 2010 V26 Finish 16 July 2011 16 July 2011 17 January 2011	97.6 97.6 V26 Duration 165.6 165.6 139.8	31 October 2008 31 October 2008 V31 Start 14 May 2008 14 May 2008 14 May 2008	22 November 2010 22 November 2010 V31 Finish 06 September 2011 06 September 2011 10 March 2011	107.4 107.4 /31 Duration 173.0 173.0 147.4	2,270,208 2,153,870 10,621,940.52 Total Cost (V26)	23,260 22,068 Weekly Rate 7,953 9,861	9.8 9.8 9.8 Sub Total Prolongation 7.40 7.40 7.60 7.60 7.60	216,269.71 636,317.42 Total Cost 58,855.64 72,974.29 9,271.61
Contractual Requirements Section A  Contractor's bond  All other insurance required by the Contract  Accommodation for the Engineer's and Client's Staff; establish and remove offices  Accommodation for the Engineer's and Client's Staff; maintain and operate offices	03 November 2008 03 November 2008 V26 Start 14 May 2008 14 May 2008 14 May 2008	15 September 2010 15 September 2010 V26 Finish 16 July 2011 16 July 2011 17 January 2011	97.6 97.6 V26 Duration 165.6 165.6 139.8 139.8	31 October 2008 31 October 2008 V31 Start 14 May 2008 14 May 2008 14 May 2008	22 November 2010 22 November 2010 V31 Finish 06 September 2011 06 September 2011 10 March 2011	107.4 107.4 /31 Duration 173.0 173.0 147.4 147.4	2,270,208 2,153,870 10,621,940.52 Total Cost (V26) 1,317,094 1,633,046	23,260 22,068 Weekly Rate 7,953 9,861	9.8 9.8 9.8 Sub Total Prolongation 7.40 7.40 7.60 7.60	216,269.71 636,317.42 Total Cost 58,855.64 72,974.29

Prolongation Estimate - V26 to V31

Bilfringer Berger Preliminaries
Sectional Completion EoT

	Sectional Completion Eo I										
Item	Section	V26 Start	V26 Finish	V26 Duration	V31 Start	V31 Finish	V31 Duration		Pr	olongation	Total Cost
38	Consortium Office Hire			169.0			176.6	202,048		7.60	*
39	Consortium Office Maintenance			169.0			176.6	591,300		7.60	
40	Consortium Surveying Instruments Maintenance			169.0			176.6	25,978	154	7.60	1,168.23
41	Consortium IT Equipment	- I		169.0			176.6	304,986	1,805	7.60	13,715.35
42	Consortium Testing			169.0			176.6	609,974	3,609	7.60	27,430.79
43	Consortium Establish/Remove Offices	14 May 2008	3 17 January 201		14 May 2008	10 March 2011	147.4	₩	(a)	7.60	
44	Consortium Establish/Remove Surveying Equipment	14 May 2008	5.		14 May 2008	10 March 2011	147.4	-	-	7.60	
45	Consortium costs Incurred during facilitated negotiation phase	14 May 2008	. PRILITABLE PRINTED		14 May 2008	10 March 2011	147.4	*		7.60	- *
	Contractual Requirements - Section B						1)				
46	Contractor's bond	14 May 2008	3 16 July 201	1 165.6	14 May 2008	06 September 2011	173.0	670,743	4,050	7.40	29,972.81
	All other insurance required by the Contract	14 May 2008			14 May 2008	06 September 2013	173.0	881,247	5.322	7.40	39,379.40
48	Accommodation for the Engineer's and Client's Staff; establish and remove offices	14 May 2008			14 May 2008	10 March 2013	1 147.4		-	7.60	
	Accommodation for the Engineer's and Client's Staff; maintain and operate offices	14 May 2008	THE COMPANY OF THE PARTY OF		14 May 2008	10 March 2013	1 147.4			-21.60	-
	Services for Engineer's and Client's Staff; maintain and operate transport vehicles			169.0			176.6	111,015	657	7.60	4,992.40
	Equipment for use by the Engineer's and Client's Staff; maintain and operate photographic equipment			169.0			176.6	10,248	61	7.60	460.84
	Consortium Supervision			169.0			176.6	1,446,509	8,559	7.60	65,050.11
53	Consortium Office Hire	le control		169.0			176.6	108,795	644	7.60	4,892.56
54	Consortium Office Maintenance			169.0			176.6	318,392	1,884	7.60	14,318.24
55	Consortium Surveying Instruments Maintenance			169.0			176.6	13,988	83	7.60	629.05
56	Consortium IT Equipment			169.0			176.6	164,223	972	7.60	7,385.19
57	Consortium Testing			169.0			176.6	328,448	1,943	7.60	14,770.43
58	Consortium Establish/Remove Offices	14 May 2008	3 17 January 201		14 May 2008	10 March 201	1 147.4		=	7.60	
59	Consortium Establish/Remove Surveying Equipment	14 May 2008	A STATE OF THE PARTY OF T		14 May 2008	10 March 201				7.60	
								11,649,611.56	S	ub Total	486,930.14

#### NOTES

- \* All in accordance with Spreadsheet No 2 Appendix F Schedule Part 4.
- \* Accommodation for Client and Engineers Staff (Item 34 & 49) have been excluded from INTC 01 only as the costs are deemed to be covered in INTC 18. For the purposes of valuation of any future EoT claims these prolongation costs will be applicable.
- \* Consortium Supervision (Item 38 & 52) is for 14 Nr Bilfinger Berger consortium staff only
- \* All Items in the above table with a V26 Duration of 169 weeks are as identified in Schedule 4 where 169 weeks is the basis for the calculation of the rate. All other items are included in Schedule 4 as a lump sum item and therefore the weekly rate is calculated based on the Programme duration.

Prelim Escalation Bilfinger Berger 02 November 2009

Prolongation Cost £ 486,930.14 (see Prolongation Estimate)

Weeks 7.6 (see Prolongation Estimate)

Prelim Cost Per Week £ 64,069.76

Escalation % p.a. 2.76%

Original Rate Applicable for 3 year Contract duration (mid-point) 4.41% (see attached Escalation Percentages)

Deduced Nett Prelim Cost per week £ 61,366.33

Delay Weeks	-	1		2		3		4		5		6		7		8
Project Week No		167		168		169		170		171		172		173		174
Deduced Nett Prelim Cost per week	£	61,366.33	£	61,366.33	£	61,366.33	£	61,366.33	£	61,366.33	£	61,366.33	£	61,366.33	£	61,366.33
Escalation applicable for delay period (%)		8.86%		8.92%		8.97%		9.02%		9.08%		9.13%		9.18%		9.24%
Escalation applicable for delay period (£)	£	5,439.42	£	5,471.99	£	5,504.56	£	5,537.13	£	5,569.70	£	5,602.27	£	5,634.85	£	5,667.42
Total Prelim Cost Per Week	£	66,805.75	£	66,838.32	£	66,870.89	£	66,903.46	£	66,936.04	£	66,968.61	£	67,001.18	£	67,033.75
Additional Escalation	£	2,735.99	£	2,768.57	£	2,801.14	£.	2,833.71	£	2,866.28	£	2,898.85	£	2,931.42	£	2,963.99
Apportioned to EoT 1 (7.6 Wks)		1		1		1		1		1	_	1		1		0.6
Additional Escalation (Applicable to this Delay)	£	2,735.99	£	2,768.57	£	2,801.14	£	2,833.71	£	2,866.28	£	2,898.85	£	2,931.42	£	1,778.40

Prelim amount subject to escalation  $frac{ frac{ ffeta}{ frac{ frac{ frac{ frac{ frac{ frac{ frac{ frac{ frac{ f{ frac{ f{ frac{ frac{1\finter{\frac{1\frac{1\finte}}{1\frac{1\frac{1\finter{1\frac{1\finter{\frac{1\frac{1\finter{\frac{1\frac{1\frac{1\frac{1\frac{1\frac{1\frac{1\fintet{1\frac{1\finter{1\finter{1\finter{1\finter{1\finter{1\fintet{1\finter{1\finter{1\fintet{1\fintet{1\finter{1\fintet{1\fintet{1\fintet{1\finter{1\fintet{1\fii}}}{1\fititet{1\fitet{1\fintet{1\fintet{1\fintet{1\fintet{1\fintet{1\fintet{1\fi$ 

	Section A	Section B	Section C	Section D			
Year	Secti	Secti	Secti	Secti	Week No	W/E Date	Percentage
		1			1	18/05/2008	0.05%
			prist.		2	25/05/2008	0.11%
			Production of the second		3	01/06/2008	0.16%
					4	08/06/2008	0.21%
					5	15/06/2008	0.27%
	13		100		6	22/06/2008	0.32%
		11. 9	176		7	29/06/2008	0.37%
					8	06/07/2008	0.42%
		1117	177		9	13/07/2008	0.48%
			- 1		10	20/07/2008	0.53%
	15 11				11	27/07/2008	0.58%
	1.08				12	03/08/2008	0.64%
1					13	10/08/2008	0.69%
					14	17/08/2008	0.74%
			-		15	24/08/2008	0.80%
					16	31/08/2008	0.85%
					17	07/09/2008	0.90%
					18	14/09/2008	0.96%
	) H		1		19	21/09/2008	1.01%
		1	1 4		20	28/09/2008	1.06%
			170		21	05/10/2008	1.11%
		- W			22	12/10/2008	1.17%
					23	19/10/2008	1.22%
	I i		1 . 4		24	26/10/2008	1.27%
-1					25	02/11/2008	1.33% 1.38%
Year 1					26 27	09/11/2008 16/11/2008	1.43%
>					28	23/11/2008	1.45%
					29	30/11/2008	1.54%
			10-		30	07/12/2008	1.59%
					31	14/12/2008	1.65%
					32	21/12/2008	1.70%
		3 1			33	28/12/2008	1.75%
	Marie				34	04/01/2009	1.80%
			1		35	11/01/2009	1.86%
	10 11				36	18/01/2009	1.91%
		11 +			37	25/01/2009	1.96%
		11.5			38	01/02/2009	2.02%
			1		39	08/02/2009	2.07%
					40	15/02/2009	2.12%
					41	22/02/2009	2.18%
1					42	01/03/2009	2.23%
	15.5	P 7			43	08/03/2009	2.28%
		100			44	15/03/2009	2.34%
	TE A		1220		45 44 45 46 47	22/03/2009	2.39%
			1		46	29/03/2009	2.44%
		-				05/04/2009	2.49%
			- 4		48	12/04/2009	2.55%
		18 5			49	19/04/2009	2.60%
	4 3 8	231			50 51 52	26/04/2009	2.65%
			3.79		51	03/05/2009	2.71%
					52	10/05/2009	2.76%

rear	Section A	Section 8	Section C	Section D				
ě	Se	Se	Se	Se	Week No	W/E Date	Percentage	
					53	17/05/2009	2.81%	
		100			54	24/05/2009	2.87%	
	n. 5		110		55	31/05/2009	2.92%	
		12.	111		56	07/06/2009	2.97%	
					57	14/06/2009	3.03%	
					58	21/06/2009	3.08%	
					59	28/06/2009	3.13%	
					60	05/07/2009	3.18%	
					61	12/07/2009	3.24%	
-		1			62	19/07/2009	3.29%	
					63	26/07/2009	3.34%	
17.00	- 14				64	02/08/2009	3.40%	
			11 51		65	09/08/2009	3.45%	
					66	16/08/2009	3.50%	
	1 - 1		100		67	23/08/2009	3.56%	
	1 1				68	30/08/2009	3.61%	
1 51	100		130		69	06/09/2009	3.66%	
		T-1		1	70	13/09/2009	3.72%	
	177				71	20/09/2009	3.77%	
					72	27/09/2009	3.82%	
		1			73	04/10/2009	3.87%	
1					74	11/10/2009	3.93%	
					75	18/10/2009	3.98%	
	No.				76	25/10/2009	4.03%	
0.1	110				77	01/11/2009	4.09%	
Year 2					78	08/11/2009	4.14%	
γe γ					79	15/11/2009	4.19%	
100			100		80	22/11/2009	4.25%	
- 1		the late			81	29/11/2009	4.30%	
					82	06/12/2009	4.35%	TAT
					83	13/12/2009	4.41%	(Mid-point of original contract duration and
	1		1		84	20/12/2009	4.46% 4.51%	basis of Escalation)
7					85	27/12/2009		
		1	11.6		86	03/01/2010	4.56%	
		- 61			87	10/01/2010	4.62%	
1 :		100	W. 11		88 89	17/01/2010 24/01/2010	4.67% 4.72%	
					90	31/01/2010	4.72%	
1					91	07/02/2010	4.83%	
					92	14/02/2010	4.88%	
4					93	21/02/2010	4.94%	
			11		94	28/02/2010	4.99%	
	1		100		95	07/03/2010	5.04%	
			-31		96	14/03/2010	5.10%	
			1		97	21/03/2010	5.15%	
	-		11 17		98	28/03/2010	5.20%	
					99	04/04/2010	5.25%	
			THE		100	11/04/2010	5.31%	
		1111			101	18/04/2010	5.36%	
			1		102	25/04/2010	5.41%	
	1				103	02/05/2010	5.47%	
			N T		103	09/05/2010	5.52%	
	1			. !	104	03,03,2010	5.5270	

10	Section A	Section B	Section C	Section D			
Year	Š.	Şe	Se	Şe	Week No	W/E Date	Percentage
					105	16/05/2010	5.57%
					106	23/05/2010	5.63%
					107	30/05/2010	5.68%
		9			108	06/06/2010	5.73%
35		g.			109	13/06/2010	5.79%
					110	20/06/2010	5.84%
			10.4		111	27/06/2010	5.89%
			1110		112	04/07/2010	5.94%
Ť					113	11/07/2010	6.00%
6			1		114	18/07/2010	6.05%
					115	25/07/2010	6.10%
					116	01/08/2010	6.16%
					117	08/08/2010	6.21%
					118	15/08/2010	6.26%
					119	22/08/2010	6.32%
6			100		120	29/08/2010	6.37%
ES					121	05/09/2010	6.42%
4					122	12/09/2010	6.48%
					123	19/09/2010	6.53%
					124	26/09/2010	6.58%
					125	03/10/2010	6.63%
					126	10/10/2010	6.69%
					127 128	17/10/2010	6.74%
			7 13		128	24/10/2010	6.79% 6.85%
100					130	31/10/2010	6.90%
Year 3			H		130	07/11/2010 14/11/2010	6.95%
5					132	21/11/2010	7.01%
B. 19.	3				133	28/11/2010	7.06%
1			1		134	05/12/2010	7.11%
					135	12/12/2010	7.17%
					136	19/12/2010	7.22%
100			1		137	26/12/2010	7.27%
					138	02/01/2011	7.32%
					139	09/01/2011	7.38%
					140	16/01/2011	7.43%
			72.	10.7	141	23/01/2011	7.48%
600					142	30/01/2011	7.54%
1					143	06/02/2011	7.59%
10 17				1	144	13/02/2011	7.64%
					145	20/02/2011	7.70%
					146	27/02/2011	7.75%
1					147	06/03/2011	7.80%
11-01				- 1	148	13/03/2011	7.86%
12. 64			1	173	149	20/03/2011	7.91%
1					150	27/03/2011	7.96%
Table 1					151	03/04/2011	8.01%
				W.	152	10/04/2011	8.07%
					153	17/04/2011	8.12%
10					154	24/04/2011	8.17%
English				13	155	01/05/2011	8.23%
					156	08/05/2011	8.28%

Inflation p.a.

2.76%

la.	Section A	Section B	ection C	Section D			
Year	Sec	Sec	Sec	Sec	Week No	W/E Date	Percentage
				TEOTO S	157	15/05/2011	8.33%
T. V	1			1	158	22/05/2011	8.39%
					159	29/05/2011	8.44%
				0 1	160	05/06/2011	8.49%
					161	12/06/2011	8.55%
				1	162	19/06/2011	8.60%
					163	26/06/2011	8.65%
	1				164	03/07/2011	8.70%
					165	10/07/2011	8.76%
2.5	L				166	17/07/2011	8.81%
17 1				L	167	24/07/2011	8.86% Prolongation starts at this point
150	1				168	31/07/2011	8.92%
					169	07/08/2011	8.97%
				l l	170	14/08/2011	9.02%
1					171	21/08/2011	9.08%
Par II					172	28/08/2011	9.13%
100					173	04/09/2011	9.18%
					174 175	11/09/2011 18/09/2011	9.24% 9.29%
170					176	25/09/2011	9.34%
P.					177	02/10/2011	9.39%
1 -					178	09/10/2011	9.45%
	1			li	179	16/10/2011	9.50%
10.0	1			1 1	180	23/10/2011	9.55%
					181	30/10/2011	9.61%
Year 4				1 1	182	06/11/2011	9.66%
Yes					183	13/21/2011	9.71%
					184	20/11/2011	9.77%
100				i i	185	27/11/2011	9.82%
	1				186	04/12/2011	9.87%
11	1				187	11/12/2011	9.93%
					188	18/12/2011	9.98%
	1			1 1	189	25/12/2011	10.03%
	1				190	01/01/2012	10.08%
					191	08/01/2012	10.14%
100					192	15/01/2012	10.19%
174					193	22/01/2012	10.24%
1				li	194 195	29/01/2012 05/02/2012	10.30% 10.35%
100					196	12/02/2012	10.40%
1-15					1.97	19/02/2012	10.46%
-17				1 1	198	26/02/2012	10.51%
	1			l I	199	04/03/2012	10.56%
- 14				( I	200	11/03/2012	10.62%
					201	18/03/2012	10.67%
1.57					202	25/03/2012	10.72%
					203	01/04/2012	10.77%
				ļ	204	08/04/2012	10.83%
1	4				205	15/04/2012	10.88%
			İ		206	22/04/2012	10.93%
1	1				207	29/04/2012	10.99%
		l	l	l l	208	06/05/2012	11.04%

_	Section A	Section B	Section C	Section D			
Year	Sec	Şec	Sec	Sec	Week No	W/E Date	Percentage
ğ j					209	13/05/2012	11.09%
					210	20/05/2012	11.15%
					211	27/05/2012	11.20%
					212	03/06/2012	11.25%
Ğ .					213	10/06/2012	11.31%
					214	17/06/2012	11.36%
1					215	24/06/2012	11.41%
					216	01/07/2012	11.46%
			i		217	08/07/2012	11.52%
					218	15/07/2012	11.57%
					219	22/07/2012	11.62%
					220	29/07/2012	11.68%
					221	05/08/2012	11.73%
					222	12/08/2012	11.78%
					223	19/08/2012	11.84%
					224	26/08/2012	11.89%
					225	02/09/2012	11.94%
					226	09/09/2012	12.00%
					227	16/09/2012	12.05%
					228	23/09/2012	12.10%
					229	30/09/2012	12.15%
					230	07/10/2012	12.21%
					231	14/10/2012	12.26%
					232	21/10/2012	12.31%
100					233	28/10/2012	12.37%
(ear.5					234	04/11/2012	12.42%
8					235	11/11/2012	12.47%
					236	18/11/2012	12.53%
					237	25/11/2012	12.58%
					238	02/12/2012	12.63%
W 1					239	09/12/2012	12.69%
4-9					240	16/12/2012	12.74%
1 2 1					241	23/12/2012	12.79%
					242	30/12/2012	12.84%
Variety.					243	06/01/2013	12.90%
H. S					244	13/01/2013	12.95%
					245	20/01/2013	13.00%
18					246	27/01/2013	13.06%
					247	03/02/2013	13.11%
					248	10/02/2013	13.16%
					249	17/02/2013	13.22%
					250	24/02/2013	13.27%
	1				251 252	03/03/2013	13.32%
					252	10/03/2013	13.38%
					253	17/03/2013	13.43%
					254	24/03/2013	13.48% 13.53%
11					255 256	31/03/2013 07/04/2013	13.53%
11119					250		13.59%
					257 258	14/04/2013 21/04/2013	13.64%
					259	28/04/2013	13.75%
4					260		13.75%
100			L		200	05/05/2013	13.60%

Siemens plc
Infraco Notice of tie Change No. 1:
Final Revised Estimate pursuant to
Mediation's conclusion
Memorandum of Understanding

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#### 1. Introduction

- 1.1. Siemens herewith provides its revised Estimate in respect of Infraco Notice of tie Change No. 1 in accordance with paragraph 2 of the Memorandum of Understanding concluded between tie, Bilfinger Berger and Siemens on 30 October 2009. Therein, subject to acceptance by tie of the revised Estimate to be provided by Bilfinger Berger and Siemens to tie by 1700 hours on 2 November 2009, the parties agreed and compromised its Dispute in respect of Infraco Notice of tie Change No. 1 in the sum £3,534,000.00. Further the parties agreed that the Bilfinger Berger element as being £2,225,000 and the Siemens element as being £1,299,000.
- 1.2. This Estimate details and fully substantiates the derivation of the Siemens' element of the value of Infraco Notice of tie Change No. 1 in the sum of £1,299,000 which was agreed by the parties as the fair and proper valuation of the Siemens' element of this tie Change. Further, this Estimate has been prepared in accordance with the methods of valuation agreed between the parties during the Mediation sessions on 22, 23 and 30 October 2009 and applies these methods of valuation to the calculations herein. Further Siemens herein details the rates used to valuate its Estimate.
- 1.3. As expressly agreed between the parties this Estimate is produced and derived on the basis of 'Actual Cost/estimated Actual Cost' in accordance with clause 80.6.3 and 80.6.4 of the Infraco Contract and the parties agreed that this is the appropriate basis for valuation of this Estimate. This Estimate makes no provision in respect of CAF, given that the has previously confirmed in writing that the CAF element of this Estimate, if incurred, would be separately compensated by the on Actual Cost basis.
- 1.4. The present Estimate for the Siemens element, together with the Estimate produced by Bilfinger Berger for their element, fully substantiates the agreed settlement value of Infraco Notice of tie Change No. 1 in the sum of £3,524,000 as recorded in the Memorandum of Understanding.
- 1.5. Siemens duly acknowledges that tie shall formally respond in writing by 1700 hours on 3 November 2009 to the present revised Estimate.
- 1.6. It is acknowledged by Siemens that subject to acceptance by tie of this revised Estimate the methods of valuation set out herein shall form the basis of evaluation of any further extension of time. However, for the avoidance of doubt, Siemens expressly advises that whilst it has agreed to disregard certain costs in order to achieve a commercial settlement of Infraco Notice of tie Change No. 1, this concession applies to the calculation of prolongation costs only, and Siemens advises that there is no provision for Siemens' staff and/or resources within Appendix A2 or Appendix F of Schedule Part 4 in relation to tie Changes or more generally. Further, Siemens expressly advises that this

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Estimate does not contemplate all possible costs and charges that may arise from or in respect of future extensions of time. To this extent and at the explicit request of tie during the Mediation, Siemens has sought at section 13 of this Estimate to identify additional or differing heads of claims that may apply to future extensions of time.

1.7. For the avoidance of doubt and subject to the formal agreement of tie to this revised Estimate it shall be deemed that the Estimate herein has been produced in accordance with clause 80.4 of the Infraco Contract and is deemed to accord therewith.

Siemens final EoT1 Estimate

#### 2. **Chronology of Events**

- 2.1. The parties to the "Infraco Contract relating to the Edinburgh Tram Network" are tie Limited (hereinafter referred to as "tie") and a consortium consisting of Bilfinger Berger (UK) Limited, Siemens plc and Construcciones y Auxiliar de Ferrocarriles S.A (hereinafter jointly referred to as "the Infraco" and singularly as "Bilfinger Berger", "Siemens" and "CAF").
- 2.2. Tie and the Infraco executed a contract (hereinafter referred to as "the Infraco Contract") dated 14 May 2008. Pursuant to a Minute of Variation dated 14 May 2008, CAF became a member of the Infraco. The terms of the Infraco Contract are relied upon by Siemens in their entirety in this submission.
- 2.3. By letter dated 21 May 20081 the Infraco issued, inter alia, 'tie Change notification No. 1' [(INTC)1]. Section 2 of the pro-forma gave details of the change as follows:
  - "Schedule Part 4, Pricing Assumption, paragraph 3.4.4, assumes that the Design Delivery Programme as defined in the SDS Agreement is the same as the Schedule Part 15 Programme. We have entered the Issued for Construction (IFC) dates from the Design Delivery Programme into the Schedule Part 15 Programme and there are differences from the Base Case Assumption resulting in a Notified Departure."
- 2.4. By letter dated 28 August 2008<sup>2</sup> tie made an interim assessment of the delay as being 5 days.
- 2.5. On 18 March 2009<sup>3</sup> Tie confirmed in writing that the programmes submitted by the infraco confirmed a 38 business day extension of time.
- 2.6. Notwithstanding the exchanges between the parties and notwithstanding the agreement of the time impact of Infraco Notice of tie Change No. 1, a dispute or difference arose between the parties as to the evaluation of the financial effect, actual and/or forecast, of the incorporation into the Contract of the V31 Programme in lieu of the V26 Programme.
- 2.7. On 11 August 2009 tie provided Notification in respect of the Dispute between the parties in accordance with Clause 111 of the Contract. Following the failure to resolve the Dispute at the subsequent meeting between the parties, on 20 August 2009 the parties served written Position Papers in accordance with paragraph 9.2 of Schedule Part 9 of the Contract. On 4 September 2009 tie referred the dispute to Mediation in accordance with paragraph 10.1 of Schedule Part 9 of the Contract.

3 Reference INF CORR 1049

<sup>&</sup>lt;sup>1</sup> Reference 25.1.201/TM/138

<sup>&</sup>lt;sup>2</sup> Reference INF CORR 126

- 2.8. The Mediation between the parties was conducted on 22, 23 and 30 October 2009. On the conclusion of the Mediation Bilfinger Berger, Siemens and tie executed a 'Memorandum of Understanding' attached hereto. Therein, subject to acceptance by tie of the revised Estimate to be provided by Bilfinger Berger and by Siemens, the parties compromised the Dispute in respect of Infraco Notice of tie Change No. 1 in the sum £3,534,000.00 of which the Siemens' element is £1,299,000.00.
- 2.9. In accordance with paragraph 2 of the Memorandum of Understanding Siemens herewith provide its revised Estimate in respect of Infraco Notice of tie Change No. 1.
- 2.10. In this Estimate Siemens set out the both the methodology and revised rates utilised to calculate its agreed entitlement in respect of Infraco Notice of tie Change No. 1. These rates are attached hereto as Appendices to the present Estimate. Siemens seek agreement from tie to the rates set out therein for the purpose of evaluation of future extensions of time. These rates makes no provision for future increases in resources or the valuation thereof in the event of further delay to the regular progress of the Infraco Works. Further, this Estimate does not seek to contemplate or provide for all heads of claim that may apply to future extensions of time. Siemens respectfully request that tie take due cognisance of this fact.

#### 3. Siemens' Proposed Methods of Valuation

- 3.1. For the avoidance of doubt Siemens herein sets out the methods of valuation utilised by Siemens in deriving its revised final Estimate in the sum of £1,299,000.00 as recognised between Bilfinger Berger, Siemens and **tie** in the Memorandum of Understanding.
- 3.2. The parties agreed that ascertainment of Siemens' entitlement in respect of Infraco Notice of tie Change No. 1, including its 'preliminaries and general items', is expressly based upon the 'Actual Cost'/'estimated Actual Cost' of the Siemens and Siemens subcontractors' additional time related resources and other costs and charges properly incurred and required as a result of the prolongation of the Infraco Works attributable to Infraco Notice of tie Change No. 1.
- 3.3. To this end Siemens has valued the Actual Cost/estimated Actual Cost of the prolongation of the works by a period of delay incurred as a consequence of the change from Infraco Programme V26 to V31. For most affected resources the prolongation will be a period of 38 business days. This expressly accords with the "tie Commentary on Siemens submission" dated 15 June 2009 which states that:

"Siemens has insisted that the core team used by them in the Consortium Office should be extended by the full 38 business days which is the full delay impact to Infraco as a result of the delayed design programme. Tie accepts that core Consortium staff would be required for the longer period of 38 days..."

Siemens final EoT1 Estimate

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- 3.4. For certain resources, in particular those related to the BAM subcontract, the prolongation period has differed which is reflected in the detailed Estimate. Further, for resources deployed on a part-time basis the period of extension has been reduced in the same proportion as the allocation of the resource.
- 3.5. The extent of Siemens' additional costs is therefore calculated for the additional period that the Siemens staff and Siemens sub-contractors will be effectively retained on the project beyond the original completion date and at the anticipated percentages of deployment.
- 3.6. For the avoidance of doubt, in the derivation and valuation of its Estimate Siemens has expressly applied a head office overheads and profit percentage on-cost of 17% to its Actual Cost/estimated Actual Cost for systems and trackwork and the sums herein are inclusive of this on-cost except where Siemens would expressly advise to the contrary. Siemens advises by way of clarification that this is consistent both with Appendix G to the Infraco Contract for valuating any tie Changes on Actual Cost/estimated Actual Cost, and the definition of 'cost' at Clause 2.15 to Schedule Part 1 of the Infraco Contract which defines "cost" and "direct cost" to include:

"all expenditure properly incurred or to be incurred whether on or off the Site including overheads, finance and other charges properly allocatable thereto"

- 3.7. For the avoidance of doubt however, and notwithstanding the express wording of Appendix G, Siemens expressly recognises and concedes in the valuation of extensions of time that it is not appropriate to make addition of 7.4% to its Actual Costs in respect of prolongation to cover 'Consortium Preliminaries', given that the individual cost elements of such 'Consortium Preliminaries' form part of the main heads of claim provided for in the Consortium's Estimate.
- 3.8. In the calculation of 'Actual Cost'/estimated Actual Cost' for Infraco Notice of tie Change No.1, Siemens has included costs properly incurred in respect of its principal sub-contractor, namely BAM Rail b.v. Siemens expressly acknowledges that tie has requested certainty in respect of future extension of time claims and more particularly the extent of further Siemens sub-contractors costs that may be contained therein. This matter is addressed more fully in section 13 of this Estimate.
- 3.9. It is expressly acknowledged and understood by the parties present at the Mediation, namely tie, Siemens and Bilfinger Berger that the method of valuation adopted by Siemens differs from that applied by Bilfinger Berger. Further, it is expressly understood that the Siemens' and Bilfinger Berger valuations [and as may be applicable, the CAF valuation] can be so presented as separate components constituting the Consortium's total Estimate. For the avoidance of doubt the Bilfinger Berger valuation is based upon the rates and prices in Appendix F to Schedule Part 4 of the Infraco Contract, and as

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- these rates and prices do not apply for Siemens or CAF, the Siemens' [and where applicable CAF] method of valuation is based upon Actual Cost/estimated Actual Cost.
- 3.10. Further, it is mutually agreed and understood that neither the Siemens' method of valuation nor the Bilfinger Berger method of valuation makes any provision for CAF.
- 3.11. In order to achieve a mutually satisfactory resolution of this Dispute and in order to agree mutually acceptable rules of valuation also valid for future extensions of time, Siemens have sought to address concerns expressed by tie in respect of perceived 'double recovery' which would be contrary to Clause 121 of the Infraco Contract and also inconsistent with fair and proper rules of valuation. To this end Siemens has reduced the number of personnel previously claimed on a 'time related' basis in previous revisions of this Estimate. However, for the avoidance of doubt, Siemens expressly advises that whilst it has agreed to disregard certain costs in order to achieve a commercial settlement of Infraco Notice of tie Change No. 1, this concession applies to the calculation of extension of time costs only, and Siemens advises by way of clarification that there is no provision for Siemens' staff and/or resources within Appendix A2 or Appendix F of Schedule Part 4 in relation to tie Changes or more generally.
- 3.12. Further clarification of the Siemens [including their main subcontractor BAM] rates and calculations and methods of valuation applicable to extensions of time is provided in the following sections.

### 4. Siemens' Explanation as to Rates to be Applied

- 4.1. This narrative explains the procedure adopted by Siemens in calculating the Actual Cost/estimated Actual Cost anticipated to be incurred by Siemens as a result of the implementation of the Infraco Programme resulting from Design Programme V31 in lieu of Design Programme V26.
- 4.2. After extensive scrutiny of the earlier versions of this Estimate, in the Mediation between the parties concluded on 30 October 2009, and subject to acceptance by tie of the revised final Estimate to be herewith provided by the Consortium, the parties agreed and compromised its Dispute in respect of Infraco Notice of tie Change No. 1 and agreed Siemens' entitlement as being £1,299,000. In light of the agreement reached at Mediation and pursuant to the express wording of the Memorandum of Understanding Siemens has amended its calculations as herein attached. Siemens revised entitlement in the sum of £1,299,000.00 is summarised at Appendix 1 to this Estimate. This narrative addresses the procedure and logic, and more particularly the rules of valuation used in calculating the Siemens' agreed entitlement.

Siemens final EoT1 Estimate

- 4.3. The present revised submission follows the same sub-headings used previously which were:
  - 4.3.1. Extended Cost of General Project Management.
  - 4.3.2. Extended Cost of Operation: Siemens Overall Project Management Team.
  - Extended Cost of Siemens Project Management: Rail Electrification Business Unit.
  - 4.3.4. Extended Cost of Siemens' Project Management: Signals/Communication.
  - 4.3.5. Extended Cost of Siemens' Project Management Depot Workshop Equipment.
  - 4.3.6. Extended Cost of Siemens Track Work (TRW) Project Management.
  - 4.3.7. Extending Cost of the BAM Sub-Contract.
  - 4.3.8. Additional Cost of Money and Additional Escalation Costs.
- 4.4. It has been accepted by tie that, as a result of the implementation of Design Programme V31, an extension to the Infraco Contract Completion Date of 38 working days has been incurred. More particularly the sectional completion date for Section D of the Infraco Works has been extended from 16 July 2011 to 06 September 2011.
- 4.5. It should be noted that for this project, Siemens has three Cost Base methods of calculation used to derive the 'base cost' per employee. Additional Siemens has produced a fourth 'Cost Base' to provide the basis of valuation for employees and positions not yet mobilised. The 'Cost Bases' are:
  - 4.5.1. Personnel already mobilized at the time of producing the present Estimate, based in the UK, and paid under UK tax laws, calculated using base salary, national insurance etc [Method 1]; Siemens commissioned BDO Stoy Hayward LLP to undertake a review of the hourly rates for UK based personnel utilised by Siemens in its calculations of anticipated cost. BDO reported its findings in writing on 30 June 2009 [attached hereto at Appendix No. 10]. Therein, BDO confirmed that having formed an understanding of how the Siemens' rates had been compiled and having checked the integrity and accuracy of the Siemens' rates, it had not identified any errors.
  - 4.5.2. Siemens has further reduced these rates to reflect total 'annual available hours' rather than annual 'productive hours' as described at Section 4.6 below.
  - 4.5.3. Personnel based in Germany and costed on a departmental basis. These costs are issued by the cost centre and costed to each project upon which its

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- personnel are employed [<u>Method 2</u>]; Siemens have compiled these rates in accordance with its internal guideline for calculation of hourly rates in 'Sales and Functional Departments'.
- 4.5.4. Personnel based in the UK at locations other than Edinburgh Park Project Office and costed on a departmental basis. These costs are issued by the cost centre and costed to each project upon which its personnel are employed [Method 3]; Siemens commissioned BDO Stoy Hayward LLP to undertake a review of the rates for UK personnel costed on a departmental basis. BDO reported its findings in writing on 16 October 2009 [attached hereto at Appendix No. 11]. Therein, BDO confirm that having formed an understanding of how the Siemens' rates had been compiled and having checked the integrity and accuracy of the Siemens' rates, it had not identified any errors apart from those as expressly noted in BDO's report which arise due to the inevitable assumptions made in compiling department budgets.
- 4.5.5. Personnel/Positions not yet Mobilised [Method 4]; in the interest of provide a complete valuation model and basis of costing future extensions time, Siemens has produced a Cost Base model for positions not yet mobilised but whose later incorporation to the project has been planned and is deemed necessary for the proper execution of the Infraco Works. This cost base does not seek to be exhaustive or conclusive, but rather based on reasonable budget or target costing for recruiting these resources. Rather, Siemens is attempting to provide tie with a more accurate model and methodology for valuation of future extensions of time.
- 4.6. In light of the objection to the utilisation of 'productive hours' from tie in the calculation of hourly rates for continuous extensions of time (which are deemed to include both a proportion of productive and unproductive time), Siemens has reduced the overall calculation, at the bottom of each worksheet, by the ratio between 'total productive hours' per annum, and the total 'annual available hours'. This results in a reduction in the Siemens 'hourly rates' of 25.4% for UK resources, or 22% for resources based in Germany, when applied to extension of time claims. For convenience this reduction is shown in the worksheets attached to this Estimate as a single percentage reduction in total cost as opposed to a reduction in hourly rates.
- 4.7. Notwithstanding the revised costs presented herein, Siemens would advise tie that it operates an 'exchange rate risk compensation scheme' for its German employees expatriated to the UK and paid in Sterling. These Siemens' employees executed contracts of employment based upon exchange rates applicable at the time of deployment. As a matter of record there has been a significant reduction in the value of Sterling since contract commencement. As part of the 'exchange rate compensation scheme' Siemens reimburses its expatriate employees for 70% of losses incurred as a

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- result of exchange rate movement. Siemens has not claimed these costs in this Estimate. However, Siemens advise **tie** that these costs form a legitimate head of claim and should be recognised in any future extension of time calculation.
- 4.8. Siemens' Rates are provided in the worksheets attached as Appendices to the present revised Estimate.

## 5. Method of Valuation, estimated Actual Cost: Extended costs of System Project Management

- 5.1. The total costs calculated for System Project Management are detailed in Worksheet I and Worksheet II, respectively for the on-shore [in Edinburgh Park] and off-shore [back office Germany] functional members of Siemens overall project management team staffed by the Siemens Business Unit I MO TK PM, in charge of the overall management of the Siemens scope (as opposed to the project management of the individual technical lots and/or disciplines, performed and separately costed by other Siemens Business Units). These costs are respectively calculated in accordance with Method 1 and Method 2 as described above.
- 5.2. For the avoidance of doubt the rates provided herein are exclusive of head office overheads and profits percentage which is applied at the bottom of the individual worksheets at a rate of 17% as allowed by Appendix G of Schedule Part 4 to the Infraco Contract for all tie Changes priced on Actual Cost/estimated Actual Cost, and no separate or duplicate calculation is provided in respect of such on-cost.
- 5.3. The Siemens' overall System Project Management' head of claim is comprised in two worksheets namely':-
- 5.4. <u>Extended General Project Management</u> on Shore [EGPM] i.e. The Siemens General Project Management Team resident at Edinburgh Park as summarised on **Worksheet I**.
- 5.5. In calculating the EGPM costs Siemens has listed each of the personnel affected or anticipated to be affected and used the daily cost, according to audited rates for the Oct 2008 - Sep 2009 Siemens financial year.
- 5.6. In calculating this base rate Siemens has used the following methodology.
  - 5.6.1.From the payroll costs Siemens have initially calculated a Total Employment Cost which is inclusive of Actual salary costs, estimated overtime costs, National Insurance contributions, pension contributions and bonus (described as RRE). Further, in certain instances personnel are relocated from overseas, incurring an agreed 'Expatriate Allowance'. This personnel also incurs statutory accident insurance and social security insurance. The summation of these figures, gives

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- Siemens what is described as Total Employment Costs for each of the listed personnel.
- 5.6.2.In addition to the Total Employment Cost, certain affected personnel have, as part of their agreed employment package, the supply of a company car and these costs (such as Car Allowance sum, Tax and NI, car admin charge levied to each affected person) are included under the heading of Total Benefits Cost. Where applicable, such costs as 'Death in Service' allowance, 'fire marshall/first aider' allowance and 'Flexible Benefits Scheme' are included under this heading. It is noted that mileage compensation is reimbursed to each employee as 'expenses' and not as total benefits costs.
- 5.6.3. These levied payroll costs are totalled and divided by the number of annual working productive hours, namely 1406 per employee, allowed by Siemens in their costs calculation. The working productive hours are calculated by taking the gross available working hours (52 weeks at 36.25 hrs per week) and deducting non productive hours encompassing bank holidays, holidays, sick days, training and administration.
- 5.6.4.Dividing the calculated levied employment costs by the productive hours enables Siemens to arrive at a base hourly rate per employee. This base hourly rate is then multiplied by 7.25 (the number of hours worked), to obtain a 'day rate' per affected employee.
- 5.6.5.Using this method, Siemens have arrived at the base 'day rate' per employee for the financial year 2009 [Siemens Group financial year in this regard is October 2008 to September 2009]. These rates are for a productive day; in order to price an ongoing extension of time of the Project the rates in respect of affected Siemens Edinburgh based UK personnel [Method 1] within this head of claim have been further reduced by 25.4% [in the manner described at paragraph 4.6 above] to reflect the total 'annual available hours', namely 1885 hours, as opposed to the total annual 'productive hours'. 'Method 2' Germany based employee costs have been similarly reduced by 22%.
- 5.6.6.The effect of the implementation of Design Programme V31 is to extend the completion of the Contract to 6 September 2011. To extrapolate the base Day Rate to that applicable at the end of the Contract, Siemens has applied an anticipated UK average inflation rate of 2.76% per annum for the period between the baseline year at which the base rate was assessed and the date beyond which the resource is estimated to be expended. This inflation on-cost is based on the average inflation for the period 2006 to 2008. In respect of its German based staff and costs Siemens has derived an anticipated inflation rate of 2.80% based on the average wage inflation as calculated by the Federal Statistical Office in Germany.

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- 5.7. Extended General Project Management Off-Shore: Worksheet II represents further Siemens general project management based in the back office in Germany, allocated to the Edinburgh project to various percentages of time, and affected by the extension of time.
- 5.8. The method and approach used by Siemens in calculating this amount is equivalent to that as described in paragraph 5.5 above.

## Method of Valuation, estimated Actual Cost: Extended costs of Operation, Siemens Overall Project Management Team

- 6.1. According to the Siemens/Bilfinger Berger Consortium Agreement's "List of Responsibilities" (LoR) and as part of certain Bilfinger Berger's general management services provided to the whole Consortium, Bilfinger Berger establishes and maintains the Consortium Project Office in Edinburgh Park. This responsibility includes, but is not limited to the provision of office and site accommodation, provision of space and furniture, outdoor parking space, utility and local taxes bills, shared office equipment, copiers/scanners, document control portal (BIW), fixed telephony, and general maintenance and security of all the Edinburgh Park premises. For tie Changes including project Extensions of Time, this item is recovered by Bilfinger Berger as a specific line item of Bilfinger Berger's contribution to the "Consortium Preliminaries", which is priced in Spreadsheet 2 of Appendix F to Schedule Part 4.
- 6.2. Notwithstanding the above, in the aforementioned Consortium LoR, there are specific cost items to be carried out by each Consortium Party for itself (and which in the case of Siemens do constitute Actual Cost not included, and not recovered, in the above mentioned Spreadsheet 2). Specifically, the Siemens Project Office is paying a monthly fee for its own point-to-point broadband SNX connection to Siemens' corporate WAN. Additionally Siemens is incurring costs in connection with its own mobile telephony, outsourced copy facilities, small purchases and other office incidental costs directly related to the duration of the works.
- 6.3. Finally, pursuant to this head of claim, in accordance with the Consortium's LoR, Siemens is funding its own bonds and insurances, which must be maintained for the entire duration of the Infraco Works, including any extension thereto, including any period of extension of time.
- 6.4. The above Siemens Costs are summarised in the spreadsheet entitled "Worksheet III: Siemens Project Management, Extended Cost of Operation".
- 6.5. With respect to these items, Siemens has verified the total actual cost expended in connection with the project for the period 2008 to 2009. Thereafter Siemens has reduced this sum to an average cost per working day as a function of time, and has used

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this figure (with baseline year 2009, applying estimated escalation thereafter) as a basis for calculation of the estimated Actual Cost anticipated to be incurred for each extended working day of the project.

## 7. Method of Valuation, estimated Actual Cost: Rail Electrification Business Unit, Siemens Project Management

- 7.1. Siemens will incur additional cost in connection therewith for each day of extension of the project as a consequence of an extension of the project and as a result of sustaining an average level of effort of the "Electrification" project management team in their Rail Electrification Business Unit, in charge of the design, manufacturing/procurement, installation, testing and commissioning, approvals and handover of the Overhead Line Equipment, Traction Power Substations, and other such electrification items of the Siemens scope for this contract.
- 7.2. The above Electrification project management team includes both employees working in the city of Erlangen, Germany, and operatives working in the UK - primarily in Edinburgh Park Office, but also including a minimum back office support in York. The corresponding Actual Cost estimates are summarised in Worksheets VI and VII, respectively for the "offshore" (Germany) and the "onshore" (UK) costs incurred by the Rail Electrification Business Unit of Siemens.
- 7.3. The Rail Electrification employees in Edinburgh Park Office are essentially dedicated 100% to this project, and accordingly their actual total cost of employment is allocated in full for the period of delay in the calculation of the sums included in respect thereof in the Estimate.
- 7.4. The actual cost for employees in other sites, whether in the UK or in Germany, is applied on a percentage basis only, which percentages vary between 20% and 80%, depending on the position. This reflects the anticipated mitigation that should be achieved by Siemens in the period of extension of time, by effectively allocating to other projects and bids a portion of the cost of the Rail Electrification project management personnel sitting in other, central Siemens site(s) from which several projects and bids are simultaneously managed.
- 7.5. With respect to the Worksheet VI (offshore cost Rail Electrification, in Germany), costed in Euros and calculated in accordance with Method 2, the following logic has been applied:
  - 7.5.1. The labour rates shown are calculated by using standard hourly rates supplied and instructed for use by the Siemens Group for the Oct 2008 Sep 2009 Siemens financial year [Method 2], which for the purposes of the current project is deemed to constitute the 2009 baseline. These rates form the basis of the estimated actual cost which will be allocated to the project for any period of time applying the

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corresponding escalation. Using these hourly rates, a multiple of 8 is applied to arrive at a daily rate. This multiple differs from that of 7.25 hours as applied to the rates for employees based in the United Kingdom because German based staff work an 8 hour day.

- 7.5.2. This base day rate is then escalated into future years to adequately reflect the estimated actual cost for the resources affected by the delay to the project reflected in the Estimate. In respect of its German based staff and costs Siemens has derived an anticipated inflation rate of 2.80% based on the average wage inflation as calculated by the Federal Statistical Office in Germany.
- 7.5.3. In the present Estimate, Siemens has applied this escalation to the extended period of 38 working days in the period June to September 2011, to arrive at a total value for each of the listed personnel. For each position deployed or working less than full time on the project the amount of days has been reduced by the same percentage by which the personnel is anticipated to be not charged to this project.
- 7.5.4. Siemens has made a reasonable allowance for travel and expenses for the listed Rail Electrification offshore personnel as a whole, as an average for every additional day engaged upon the project. For this item, Siemens has verified the total actual cost spent by the corresponding project team for the Siemens fiscal year October 2008 to September 2009, and derived therefrom an average cost per working day as a function of time, and has used this figure (with baseline year 2009, applying escalation thereafter as above described) as a basis to calculate the estimated Actual Cost which it is anticipated will be incurred for each extended working day of the project.
- 7.5.5. Finally, the total "offshore" (Germany) cost calculated in Euros has been converted to Sterling using an estimated conversion of 1.2 Euro per pound sterling. This calculation may require adjustment dependant upon possible variation in or agreement in respect of the exchange rate. Alternatively, if tie so prefers, a mutually acceptable adjustment formula can be agreed upon which can be applied retrospectively and any difference resulting would represent a credit to tie or to Siemens as appropriate thereby reflecting any change from the exchange rate assumptions inherent in this Estimate.
- 7.6. With respect to the Worksheet VII (onshore cost Rail Electrification, in UK), costed in Sterling and calculated in accordance with Method 3, identical valuation principles have been applied, except that:
  - 7.6.1. In the calculation of estimated actual cost Siemens has applied an inflation rate of 2.76% per annum for the period from 2008 to 2011 for its UK based staff. This inflation on-cost is based on the average inflation for the period 2006 to 2008.

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7.6.2. The assumption of any exchange rate logically does not apply.

# 8. Method of Valuation, estimated Actual Cost: Rail Automation Business Unit (Signalling/Communications/SCADA), Siemens Project Management

- 8.1. As a consequence of the extended duration of the project Siemens anticipates incurring additional cost for each day of extension of the project by sustaining an average level of effort of a "Signalling + Comms + SCADA" project management team in its Rail Automation Business Unit. This unit is charged with responsibility for the design, manufacturing/procurement, installation, testing and commissioning, approvals and handover of the Tramway Signalling, Telecommunications, and SCADA elements of the Siemens scope for this contract, which depending on each specific subsystem include a combination of trackside, onboard, and control centre elements.
- 8.2. The above "Signalling + Comms + SCADA" project management team includes both operatives working in Germany (in the city of Braunschweig) and employees working in the UK (in this case, a lesser presence in Edinburgh Park Office, and a higher amount of resources in York and other UK locations). The corresponding Actual Cost estimates are summarised in the Worksheets VIII and IX, respectively for the "offshore" (Germany) and the "onshore" (UK) costs incurred by the Rail Electrification Business Unit of Siemens.
- 8.3. Essentially the same logic and valuation methods apply as already described for the Business Unit "Rail Electrification", save as, the specific positions, rates and percentages of allocation over time are those of the "Rail Automation" Business Unit.

# 9. Method of Valuation, estimated Actual Cost: Depot Workshop Equipment, Siemens Project Management

- 9.1. As a consequence of the extended duration of the project Siemens anticipates it will incur extra cost for each day of extension of the project by sustaining a certain amount (part time only) of effort of a single Depot and Workshop Equipment Project Manager, also acting as Vehicle Interface Manager, in its Berlin offices. In addition to central coordinator of all Siemens interfaces related to the CAF vehicle, the Depot Project Manager is in charge of managing the design, procurement, installation, testing and commissioning, approvals and handover of the Depot/Workshop Equipment items for the Siemens scope of work.
- 9.2. Essentially the same logic and valuation methods apply as already described for the Business Units "Rail Electrification" and "Rail Automation", save as, the specific (single) position, rate and percentage of allocation over time are those of the "DWE Project

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- Management" Centre of Expertise (TK) in Berlin, which is a subgroup of the TK Business Unit.
- 9.3. In this case, a partial allocation of the total cost of employment is included in the present Estimate, since this employee is effectively allocated by Siemens to other projects and bids and it is anticipated that his workload during a project time extension of the Edinburgh Tram Project will only be engaged on a part time basis.
- 9.4. The corresponding Actual Cost estimate is summarised in the Worksheet IV.
- 9.5. Being a cost incurred in Euro, the estimated exchange rate of £1/€1.2 has been assumed in the conversion to Sterling, and the same general comment already stated about possible adjustments to the exact exchange rate applies.

# 10. Method of Valuation, estimated Actual Cost: Track Work, Siemens Project Management

- 10.1. As a consequence of the extended duration of the project Siemens anticipates it will incur extra cost for each day of extension of the project by sustaining an average level of effort of the Siemens "Trackwork project management team" in charge of management of the BAM subcontract, including the management of the design, manufacturing/procurement, installation, testing and commissioning, approvals and handover of the Trackwork for the contract.
- 10.2. The "Trackwork Siemens project management team" includes employees working full time in the Edinburgh Park Office. The corresponding Actual Cost estimates are summarised in Worksheet V.
- 10.3. Essentially the same logic and valuation methods apply as already described for the Business Units "Rail Electrification", "Rail Signalling", etc.
- 10.4. Hourly rates are substantiated on the basis of Method 1.
- 10.5. As agreed with tie during the Mediation negotiation of Infraco Notice of tie Change No. 1 in October 2009, the time extension for these positions shall principally be the time extension of the Trackwork Subcontract, rather than the overall Infraco Contract.
- 10.6. In the particular case of Infraco Notice of tie Change No. 1 costed in the current Estimate, the Trackwork Subcontract has been extended by 5.6 weeks "only" (or 29 working days) which extension, in the BAM Subcontract Programme, occurs between October and November 2010. Worksheet V reflects this extension period for the Trackwork Siemens project management team. Accordingly, the baseline rates are escalated to 2010 only (as opposed to 2011).

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10.7. The estimated Actual Cost for carrying the Trackwork Siemens project management time over an extended period of time logically does not include the compensation that Siemens will have to award to its trackwork subcontractor, BAM Rail b.v. for the same time extension. This cost is justified and documented separately, and attached to the Siemens Estimate as an additional Actual Cost, upon which Siemens has applied the contractually stipulated on-cost of 17% in respect of head office overhead and profit.

# 11. Method of Valuation, estimated Actual Cost: Cost of Extending the BAM Subcontract

- 11.1. BAM Rail b.v. is a subcontractor to Siemens who has been also affected by Infraco Notice of tie Change No. 1 and the change in the Infraco Programme as a result of implementing the Design Programme V31 in lieu of Design programme V26.
- 11.2. In support of their case, BAM has submitted a BAM Estimate which identifies its costs and programme changes in the context of the BAM subcontract. The corresponding documents are enclosed as Appendixes to the Siemens' Estimate, including the corresponding narratives explaining BAM's entitlement as well as their adopted methods of valuation.
- 11.3. The impact on BAM was compounded by its limited ability to mitigate the impact of the change in programme, given that the BAM Subcontract was signed just a few days after the Infraco Contract and given that BAM had effectively and rapidly achieved a high degree of mobilization of their core team to Edinburgh Park Office. As a matter of record, the BAM project management team in Edinburgh as well as BAM design team overseas were fully in place within the first few weeks of the Programme, and several months before the impact of Infraco Notice of tie Change No.1 and the resulting Infraco baseline Programme Rev 1 (based on SDS Programme v31) could be fully ascertained and agreed between BSC and tie under the Infraco Contract, and incorporated within the BAM Subcontract.
- 11.4. Notwithstanding the above, during various sessions of the Mediation (October 2009) during which tie, Siemens and BAM carried out a detailed scrutiny and discussion of the BAM claim, it became apparent that BAM did not have at contract instigation a perfect knowledge of the "startup delay" in SDS Design between Programmes v26 and v31. This fact further limited BAM's ability to mitigate, among others, the initial disruption incurred by its Design Team.
- 11.5. In recognition of this fact, and in acknowledgement of the omission by Siemens to notify BAM in a more timely manner, in particular in the period between the issue of Infraco Notice of tie Change No.1 and the provision of Infraco Programme V31 details to BAM, Siemens has agreed to compensate BAM at Siemens own expense the sum of £ 55,000

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(fifty five thousand pounds), of BAM's Estimate arising from Infraco Notice of tie Change No. 1. Thus whilst Siemens' liability to BAM in this matter has been agreed in the sum of £380,000, Siemens shall fund the shortfall between this sum and tie's final proposed settlement value of the BAM's head of claim in the sum of £ 325,000 which sum was expressly proposed and agreed by tie in Mediation.

- 11.6. The exact arguments of entitlement of BAM and their method of valuation are described in their own, attached Estimate. These are not repeated herein in the main body of the present narrative but are deemed to be incorporated, by reference, as an integral part of the present Siemens Estimate and its supporting methods of valuation.
- 11.7. In summary, and very much in line with the methods of valuation of Siemens' own "Technical Lots",
  - 11.7.1. BAM has estimated the Actual Cost of certain resources (Project Management, Administration, Design, Construction; and also Plant) at specific, documented rates and applied these costs to the extended time period at specific percentages of time depending on the actual workload anticipated for each resource and depending on the possible mitigation during the extension of time.
  - 11.7.2. BAM has also applied an escalation model for the additional escalation anticipated to be incurred due to the postponed execution of its activities and scope of work. Further, BAM has discounted any escalation in cost items, including early purchases, that were effectively secured as a result of the advanced payment made by Siemens to BAM and will not be consequently impacted by inflation.
  - 11.7.3. Finally, BAM has applied to all its estimated actual cost a head office overhead and profit on-cost of 22.85% as allowed under the BAM Subcontract for all contract changes.

# 12. Method of Valuation estimated Actual Costs: Cost of Money and Escalation Costs

- 12.1. These costs are summarised on the spreadsheet headed "Worksheet VII: Cost of Money and Revised Escalation Costs". In light of comments from tie and our own internal review we have revisited our submission in respect of 'Cost of Money and Escalation Costs'. In particular we have recognised the need to provide a cost model which better reflects the anticipated cash flow during the period of the Infraco Contract.
- 12.2. With regard to the both 'Cost of Money' and 'Financing Costs', Siemens has applied the following logic:
  - 12.2.1. Siemens has adopted a mathematical model for the calculation of both escalation costs and financing costs. This model seeks to accurately represent

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the primary sums subject to on-cost and the payment profile to be anticipated in respect of monies due. Further, the model seeks to reflect the mitigation measures taken or likely to be taken by Siemens. Whilst Siemens does not profess complete accuracy in its cost model, Siemens does consider that the methodology adopted represents a fair and reasonable ascertainment of its anticipated costs pursuant to these heads of claim.

- 12.2.2. Siemens' share of the 'Lump Sum Firm and Fixed Price' as set out in Schedule Part 4, Appendix A of the Infraco Contract amounts to £96,797,432.
- 12.2.3. Siemens has utilised the Milestone Payment Schedule at Schedule Part 5 to the Infraco Contract. From this Schedule Siemens has been able to identify the amounts due in respect of payment milestones and the due date for payment in respect thereof.
- 12.2.4. In respect of each milestone Siemens has compared the due date for payment with the revised date identified in Programme Revision 1. This exercise has enabled Siemens to quantify the movement in calendar days in respect of each milestone as a result of (INTC) 1. This period provides the additional 'interest bearing days' during which escalation costs and financing costs are considered to accrue.
- 12.2.5. Siemens has apportioned the value of each milestone into its constituent components namely 'direct cost' and 'overheads and profit'. The 'overhead and profit' component has been calculated as 17% of the total value of each payment milestone. The 'direct cost' component is subject to additional escalation costs as a result of the delay to the Works. The 'overheads and profit' component is subject to additional financing costs. The 'direct costs' component is not deemed to be subject to additional financing costs as a result of the mitigation measures being taken by Siemens including but not limited to the later procurement of materials. However, the 'overhead and profit component' is subject to additional financing costs because mitigation is not possible in respect thereof.
- 12.2.6. Rate for 'Financing Costs'; to evaluate Siemens' financing costs the Weighted Average Cost of Capital (WACC) for Siemens plc UK has been applied. The WACC for Siemens plc UK, as notified by Siemens Corporate Finance, is currently 8.5% per annum.
- 12.2.7. Rate for Escalation; Siemens has applied an inflation rate of 2.76 % per annum. This inflation on-cost is based on the average UK inflation for the period 2006 to 2008.

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- 12.2.8. Escalation has not been applied to the trackwork payment milestones as these are accounted for in the BAM cost submission appended to this Estimate.
- 12.2.9. Further certain amounts in Siemens' share of the Lump Sum Firm and Fixed Price have not been considered when evaluating financing costs as these have already either been paid in accordance with the contractual Payment Schedule or are deemed to be have so paid on time by tie as and when such monies fall due. Accordingly the sum of £43,151,045.00 has been excluded from the calculation of financing costs.
- 12.2.10. The sum due to Siemens which is considered to be subject to financing costs is £7,675,703.00.
- 12.3. The sum due to Siemens which is considered to be subject to financing costs is £7,675,703.00.
- 12.4. The sum due to Siemens which is considered to be subject to escalation costs is £45,151,194.00.
- 12.5. To these sums Siemens have added Overhead and Profit at a rate of 17% in accordance with the agreed percentage addition as recorded at clause 1.3 (b), Schedule Part 4, Appendix G.

## 13. Siemens Estimated Actual Costs not included in EoT1 but anticipated to have an impact in future Extension of Time

- During the EoT1 Mediation, tie expressly requested Siemens to identify and describe, in the [present] final revised Estimate, any anticipated elements of Siemens estimated Actual Cost for future extensions of time, that might be different from those used for valuation the present Estimate, but for whatever reason might need to be either added or removed from the methods of valuation for future EoT's. Specifically, the intention of this request was for both Parties to narrow down as much as possible any incertitude in the anticipated value of the Siemens portion of future extension of time Estimates.
- 13.2 Siemens herewith responds to the above request of tie, as follows:

#### SIEMENS SUBCONTRACTORS:

13.3 In the calculation of 'Actual Cost'/'estimated Actual Cost' for Infraco Notice of tie Change No.1 (hereafter "EoT1 delay"), Siemens has included costs properly incurred in respect of its principal sub-contractor, namely BAM Rail b.v., in charge of the Trackwork scope of Siemens. As has been explained in the present narrative, BAM was indeed directly impacted by said time extension because they had achieved a very early, and very significant, degree of mobilization before the consequences of the EoT1 initial delay could be fully ascertained and mitigated.

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- 13.4 Siemens expressly acknowledges that tie has requested certainty in respect of future extension of time claims and more particularly the extent of further Siemens subcontractors costs that may be contained in future Siemens Actual Cost Estimates. In this regard Siemens confirms that the number of sub-contractors will be limited and that the majority of works will be undertaken by Siemens without resort to sub-contractors.
- 13.5 Siemens however respectfully requests that tie acknowledges that Siemens may incur some additional costs in the event of delay by having to owe compensation to the following subcontractors once they would have been mobilized:
  - Subcontractor for the physical installation of OLE and Traction Power Substations: not yet nominated (could be Border Rail and Plant Ltd, or else)
  - CORE: nominated subcontractor for certain HV/MV/LV installations
  - Subcontractor for physical installation of signalling, telecoms, SCADA and urban traffic controllers: not yet nominated.

It shall be noted that the list above is as accurate as reasonably forecasted at the time of writing the present narrative, but Siemens respectfully requests tie's understanding that the exact list may vary depending on actual, demonstrable subcontracting conditions.

13.6 Siemens expressly clarifies that no impact on any of these subcontractors was claimed in the present and final Estimate for Infraco Notice of tie Change No.1, given that the corresponding delay was identified much before mobilizing any Siemens subcontractor (save as BAM). Accordingly Siemens effectively "mitigated out" any direct cost impact on future fully mobilized subcontractors. The only logical provision in the present EoT1 Estimate has been the proportion of additional escalation for the subcontracted works that will be deferred to a later execution period, and which has been accounted for in the proposed overall escalation model and method of valuation.

#### OTHER SIEMENS BUSINESS UNITS POTENTIALLY IMPACTED BY FUTURE TIME EXTENSIONS

- 13.7 Siemens herewith confirms that two additional Business Units, not considered in the valuation of the EoT1 Estimate, are however anticipated to be engaged at later stages of the project, and will thus be likely included in the Actual Cost Estimates of future extensions of time:
  - Siemens Traffic Solutions, in charge of the scope of Urban Traffic Controllers. They were not impacted in the EoT1 delay, nor included in its Estimate, because their incorporation to the project has only commenced in the second half of 2009 with the recent issuance of tie Change Orders for a startup mobilization and initial intervention stock for Princes Street. Siemens confirms that for delays incurred after their mobilization, the average anticipated management structure deployed by this Business Unit will be of three persons (one project).

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- manager, one commercial coordinator, one technical coordinator) which will be allocated full time to the project until the conclusion of their scope.
- Siemens Maintenance Services. They were not included in the evaluation of EoT1 because neither did they have achieved any degree of mobilization, nor was the EoT1 delay significant for reassessing their future cost (through additional escalation etc.). Nevertheless, they may be impacted by future project time extensions, in a proportion to their by then valid degree of mobilization. Also and albeit deemed negligible in EoT1 and thus not estimated, future extensions of time will have an appreciable impact in the form of additional escalation of the Maintenance scope of works, which will have to be priced accordingly.

#### ADDITIONAL (OR REDUCED) PERSONNEL POSITIONS FOR FUTURE TIME EXTENSIONS

- 13.8 Time extensions impacting the Siemens activities in approximately the last 15 months of the project are likely to involve a handful of additional experts that were not accounted for in the EoT1 Estimate, and that will be mobilized for specialized testing and commissioning as well as -as already explained- in preparing the performance of the later maintenance scope.
- 13.9 Conversely, future time extensions incurred towards the last period of the project are less likely to impact several resources (such as those related to engineering and design) which have been included in the EoT1 Estimate, as they should normally be demobilized earlier than the moment of such impact.
- 13.10 Last but not least, certain tie Changes may imply the agreement on additional or acceleration resources not considered in the valuation of EoT1. Any project time extension demonstrably affecting the period of mobilization of said additional resources would need to account for the estimated Actual Cost of prolonging the same.

# OTHER POTENTIAL IMPACTS IN SIEMENS ACTUAL COST ESTIMATES FOR FUTURE TIME EXTENSIONS

- 13.11 Again deemed negligible and thus not considered in the valuation of EoT1 delay, there are some potential additional Actual Cost factors that may have to be considered and included in future Siemens Actual Cost Estimates for further extensions of time:
- Additional "costs-over-time" incurred after equipment procurement: as explained by Siemens in all monthly reports to tie, and as a mitigation to the ongoing programme delay, Siemens is reasonably postponing large parts of its procurement to a later "just in time" date, because the extra cost of the anticipated additional escalation (which has been valuated in the present Estimate) is lower that the extra cost that would be incurred in extending supplier warranties, extended risk of loss, theft or damage, extended long term

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storage costs and possibly intermediate extra inspection cycles, and possible risk of obsolescence (for very long delays). Although these factors are unlikely to be significant in future extensions of time, they might play a role in specific cases, or in very long time extensions. If this would be the case, Siemens reserves the right to include such effects on a demonstrable cost basis.

Extended costs of staffing and operating a project warehouse in Edinburgh: although deemed negligible/fully mitigated for the EoT1 delay, and thus not valuated in the same, it is anticipated that it will be an additional actual cost element for Siemens during any extension of time that would extend the operating period of such facilities. From actual quotations, Siemens expects that the monthly operating cost of the planned warehousing facilities in Edinburgh will be in the range of £35,000 per month including rental, salaries and security, operating warehouse plant, etc. The impact could be reduced if tie would allow, at no cost for Siemens, an early usage of the warehouse of the ETN Tramway that will be built in Gogar.

# Appendix 1: Summary of Siemens' element of the Estimate

Siemens final EoT1 Estimate

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#### 02-Nov-2009

Systems Project Management		£409,499
Siemens Project Office Operating Cost		£15,944
Electrification		£133,979
Signals/Communication		£134,014
Depot Workshop Equipment		£15,539
Track Work Project Management		£90,961
BAM claim (trackwork subcontractor)		£325,000
Overheads and Profit -on BAM	17.0%	£55,250
Total Track Work		£471,211
Cost of Money & Escalation Costs		£118,814
Total Siemens (Systems and Trackwork)		£4 200 000
Total Siemens (Systems and Trackwork)		£1,299,000

# Appendix 2: Worksheet I Extended General Project Management, Siemens I MO TK PM, onshore

#### Worksheet I: Extended General Project Management, Siemens in Edinburgh

GBP

Siemens I MO TK PM (Industry - Mobility, Turnkey Systems, Project Management)

Scenario:

EoT 7 (extension of time of 7.6 weeks, i.e. 7d Jun + 23d Aug + 8d Sep 2011)

Inflation rates:

Yr. Value

Average inflation UK
 Average inflation Germany

2.76%

			Y200	)9	Y:	2010				Y2011	1					Y20	12	T = T		1
Pos	Title / Function	Infl. Rate (1.2,3,)	Day Rate (GBP)	Cost (GBP)	Day Rate (GBP)	Cost (GBP)	Day Rate (GSP)	, ,	MAM		A. L	s	0	D N	Cost (GBP)	Day Rate (GBP)	Cost (GBP)	% of Time	Comments	Calc. Method
	PROJECT DIRECTION							T						-		-	_	+-+	<del>-</del>	_
	Project Director	1	1,010.80		1,039		1,067			7	23				40,560	1,097		100		1
	Commercial Project Director	1	1,118.99		1,150		1,182			- 1	23	8			44,901	1,214		100		1
	Commercial Manager	1	702.26		722		742			,	23				28,179	762		100		1
5	Team Assistant	1	165.60		170		175			,	23	*			6,645	180		100		1
	CONTRACTS AND ADMINISTRATION			-	-										-			1 +		-
	Contract Manager	1	825.49		848		872				7,3	8			33,124	896		100		1
10	Change mariager	1	865,12		889		914			- '	23	8			34,714	939		100		- 1
	ACCOUNTING AND COST CONTROL							$\pm$												-
12	Financial & Commercial Manager	1	457,03		470		483	+			28	8			18,339	496		100		1
14	GENERAL SUPPORT FUNCTIONS							$\pm$												
	Logistics Manager	1	185,54		191		196			,	28	-	-/4		7,445	201		100		1
16	Quality Manager	1	367,23		377		388	-		- '	. 23	*			14,736	398		100		11
	SCHEDULING			Y				+							1			_		
19	Time Scheduler	- 1	821.51		844		867	Ŧ		,	22	8			32,964	891		100		1
21	SYSTEMS ENGINEERING							$\pm$												
22	Systems Engineer	1	681.13		700		719				122				27,331	739	-,121_2	100		1
23	RAMS Engineer	-1	369.41		380		390	+		- '	125				14,823	401		100		- 1
25	SITE MANAGEMENT, HSE																-			
26	Overall Installation/Site Manager	1	800.00		822		845				12				32,101	868		100		4
27	Senior SHE Engineer	1	417.67		429		441				23	10.			16,760	453		100		1
28	Testing and Commissioning Manager	1	950.00		976		1,003	+		- 10	23				38,120	1,031	-	100		4
	Travel & Expenses - for all team above, prorrata per extended day of project	1	420.87		432		444	1			25	*			16,888	457		n/a		n/a

TOTAL/day of extension (at baseline yr), all productive time: 10,158.65 GBP

GRAND TOTAL COSTS, SCENARIO EoT 1 (extension of time of 7.6 weeks, i.e. 304,093 GBP

add 17% Overhead and Profit (to all Estimates on Actual Cost)

GRAND TOTAL PRICE, Extended TK PM in Edinburgh

355,789 GBP

TOTAL: 407,631

Non Productive Time Adjustment, UK:

-103,538 -25.40%

Adjusted Total

# Appendix 3: Worksheet II Extended General Project Management, Siemens I MO TK PM, offshore

## CEC00208535\_0040

#### Worksheet II: Extended General Project Management, Siemens functions in Back Offices Germany

Partner/(sub)contractor: EUR
Stemens I MO TK PM (Industry - Mobility,Turnkey Systems, Project Management)
Scenario:
EoT 1 (extension of time of 7.6 weeks, i.e. 7d Jun + 23d Aug + 8d Sep 2011)
Inflation rates: Yr. Value
1: Average inflation UK
2: Average salary inflation, Germany
2:80%

			Y2	009	Y2	010		2 0	v 101 b	Y201	1	05 Dai 100 LU		Y20	12	$\Box$		
Pas	Title / Function	Infi. Rate (1.2,3)	Day Rato (EUR)	Cost (EUR)	Day Rate (EUR)	Cost (EUR)	Day Rale (EUR)	J F M	A M		AS	0   N   D	Cost (EUR)	Day Rate (EUR)	Cost (EUR)	% of Time	Comments	Calc. Method
- 1	PROJECT SUPPORT FUNCTIONS OVERSEAS (BACK						-	11						1			,	_
2	Systems Engineer (support in Berlin)	2	768.00		790		812			11	115 411		15,421	834		50		2
3	Back office - Finance	2	888.00		913		938			4.9	14.1 5.6		24,962	965		70	-	2
4	EMC Manager (based in Germany)	2	768.00		790		812			5.4	184 84		24,673	834		80		2
5																		
	Travel & Expenses - for all learn above, promata per extended day of project	2	138.67	la management	143		147			7	22   1		5,569	151		n/a	12.0000A PHAN (1800) (1800)	n/a

TOTAL/day of extension (at baseline yr), all productive time: 2,562.67 EUR

GRAND TOTAL COSTS, SCENARIO EoT 1 (extension of time of 7.6 weeks, I., 55,087 EUR 45,906 GBP

Non Productive Time Adjustment, Germany: -15,537 -22.00% Adjusted Total 55,087

70,624

TOTAL:

add 17% Overhead and Profit (to all Estimates on Actual Cost)
7.894 GBP

GRAND TOTAL PRICE, extended functions back office TK PM Germany
53,710 GBP

### Appendix 4: Worksheet III: Siemens Project Management, extended operating cost

Siemens final EoT1 Estimate

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#### Worksheet III: Siemens Project Management, Extended Operating Cost

Partner/(sub)contractor:
Siemens I MO TK PM (Industry - Mobility, Turnkey Systems, Project Management)

Sconario:
EoT 1 (extension of time of 7.6 weeks, i.e. 7d Jun + 23d Aug + 8d Sep 2011)

Inflation rates:
1: Average militation UK
2: Average salary inflation, Germany
2.80%

			Y2	1009	Y20	010		1.0		W 3		Y201	11	i 3	e i k			Y2	012
00	Title / Function	Infl. Rate (1,2,3,)	Day Rate (GBP)	Cost (GBP)	Month Rato (GBP)	Cost (GBP)	Month Rate (GBP)	J	FM	A	M	,	A	s	o	N D	Cost (GBP)	Month Rate (GBP)	Cost (GBP)
-	EXTENDED COST OF OPERATION, SIEMENS PROJECT MANAGEMENT TEAM								1										
								2						П					
10	Non-activity costs carried by Siemens Project Office in Edinburgh Park (Siemens WAN broadband connection, Mobile Communications, Outsourced Copies, small Siemens purchases), per extended day of project	,	248		254	-	262						23				9,937	269	(140)
11	Bonds & Guarantees (avg cost per extended day of project)	4	92	-	95		97					7	23				3,691	100	
13								-											

TOTAL: 13,628

TOTAL/day of extension (at baseline year): GBP 339.62

GRAND TOTAL COSTS, SCENARIO EoT 1 (extension of time of 7.6 weeks, 13,628 GBP

add 17% Overhead and Profit (to all Estimates on Actual Cost)

GRAND TOTAL PRICE Extended Cost of Operation, Siemens Project Management
15,944 GBP

### Appendix 5: Worksheet IV, Siemens Depot and Workshop Equipment (DWE) Management

## CEC00208535\_0044

#### Worksheet IV: Siemens Depot & Workshop Equipment (DWE) Management

Partner/(sub)contractor:	Currency:	EUR
Siemens I MO TK (Turnkey Systems ) Depot		
Scenario:		
EoT 1		
Inflation rates:	Yr. Value	
1: Average inflation UK	2.76%	
2: Average salary inflation, Germany	2.80%	

_			Y	2009	Y	2010		11 12 1	0 70 2		Y201	1	0.00			Y20	112			
01	Title / Function	Infl. Rate (1.2.3)	Day Rate (Euro)	Cost (Euro)	Day Rate (Euro)	Cost (Euro)	Day Rate (Euro)	J F	M A	M J	J	A	o	N D	Cost (Euro)	Day Rate (Euro)	Cost (Euro)	% of Time	Comments	Calc. Metho
	1 OWE Project Manager / Vehicle Interface Manager	2	768.00		790		812				32	98 12	8		18,505	834		60%		2
	2	2									H	-	H							-
	Travel & Expenses - for all learn above, prorrata per extended day of project	2	48.00		49		51					23 6			1,928	52		n/a		n/a

TOTAL/day of extension (at baseline yr), all productive time: 816.00 GBP

GRAND TOTAL COSTS, SCENARIO EoT 1: 15,937 EUR 13,281 GBP

add 17% Overhead and Profit (to all Estimates on Actual Cost)

GRAND TOTAL PRICE DWE Management 15,539 GBP

20,432 TOTAL:

-4,495 -22.00% Non Productive Time Adjustment, Germany: 15,937

Adjusted Total

### Appendix 6: Worksheet V: Siemens Trackwork (TRW) Management

Siemens final EoT1 Estimate

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#### Worksheet V: Siemens Trackwork (TRW) Management

		GBP
Siemens I MO TK (Turnkey Systems ) Tracks	work	
Scenario:		
EoT 1		
Inflation rates:	Yr. Value	
1: Average inflation UK	2.76%	
2: Average inflation Germany	2.80%	
4: Average salary inflation, Germany		

			Y2	009	1	1.7	Y2	2010	F F	1	Y2	2011	Y2	012			
os	Title / Function	Infl. Rate (1.2.3,)	Day Rate (GBP)	Cost (GBP)	Day Rate (GBP)	J F M	AMJ	JASG	N D	Cost (GBP)	Day Rate (GBP)	Cost (GBP)	Day Rato (GSP)	Cost (GBP)	% of Tim	comments	Calc. Method
1	Trackwork (TRW)														1 -		_
2	Senior Trackwork Manager	1	1,020.25		1,048				34	30,404	1,077		1,107		100%		1
3	Commercial Trackwork Manager	1	865.12		889				64	25,781	914	44	939		100%		7-7
4	Team Assistant Trackwork	-1	142.62		147			1	86	4,250	151		155		100%		1
5	Senior trackwork field supervisor	1	792.00		814			10	-11	23,602	836		859		100%		1
6	Junior trackwork field supervisor	1	550.00		565			1	114	16,390	581	And the second	597	V.	100%		4
7						++									+		
8	Travel & Expenses - for all team above, prorrata per extended day of project	1	127.10		131	11		1	(4)	3,788	134		138		nia		nia
9																	

TOTAL:

TOTAL/day of extension (at baseline year): GBP 3,497.09

GRAND TOTAL COSTS, SCENARIO EoT 1:

77,744 GBP

Non Productive Time Adjustment, UK: Adjusted Total 104,215

-26,471 -25.40% 77,744

add 17% Overhead and Profit (to all Estimates on Actual Cost)
13,217 GBP

GRAND TOTAL PRICE TW Management

90,961 GBP

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## Appendix 7: Worksheet VI, Siemens Rail Electrification, offshore portion (Germany)

#### Worksheet VI: Siemens Rail Electrification, offshore portion (Germany)

Partner/(sub)contractor:	EUR
Siemens AG, Mobility, Rail Electrification	100000000000000000000000000000000000000
Scenario:	
Ent 1 (extension of time of 7.6 weeks, i.e.	7d Jun + 23d Aug + 8d Sep 2011)
Inflation rates:	Yr. Value
1: Average inflation, UK	2.76%
2: Average inflation, Germany	2.80%

			Y2	009	Y2	010		rs 8		20 00	Y201	1	-	a vice a		Y20	12			$\neg \neg$
	Title / Function	Infl. Rate (1.2.3,)	Day Rale (EUR)	Cost (EUR)	Day Rate (EUR)	Cost (EUR)	Day Rate (EUR)	JF	M	A M	3 3	A	sio	H D	Cost (EUR)	Day Rate (EUR)	Cost (EUR)	% of Time	comments	Cale. Method
3)	REL Project Manager - offshore	2	888		913		938				Sx	194	641		28,528	965		80%		2
3	REL Commercial manager - offshore	2	888		913		938			10	5.0	184	6.4		28,528	965	-	80%		2
3	Project Manager - OLE	2	888		913		938				8.4	18.4	9.4	8	28,528	965		80%		2
4	Logistics - offshore	z	704		724		744				8.5	155	41		14,136	765		50%	numan sum sus es sum es sum es sum es	2
5	STeam Assistant - offshore	2	704	•	724		744			31	12	115	*.0		14,136	765		50%		2
6																			300 Sec. 100	
7	Travel & Expenses - for all team above, prorrate per extended day of project	2	128		132		135				7	23	*		5,140	139		n/a		n/a

GRAND TOTAL, SCENARIO EOT 1 (extension of time of 7.5 weeks, l. 92,817 EUR 77,347 GBP

TOTAL: 118,996
Non Productive Time Adjustment, Germany: -26,179 -22.00%

Adjusted Total

92,817

add 17% Overhead and Profit (to all Estimates on Actual Cost)
13,149 GBP

GRAND TOTAL PRICE REL OFFSHORE

90,496 GBP

## Appendix 8: Worksheet VII, Siemens Rail Electrification, onshore portion (UK)

#### Worksheet VII: Siemens Rail Electrification, onshore portion (UK)

Partner/(sub)contractor: GBP
Stemens plc, Mobility Rail Electrification (REL.)
Scenario:
EoT 1
Inflation rates: Yr. Value
1: Average inflation UK 2.76%
2: Average inflation Germany 2.80%

			Y	2009	Y2	010			COLUMN	-1 194 - 1	Y20	11		entra in text		Y2	012		$\overline{}$	1 -	$\overline{}$
Pos	Title / Function	Infl. Rato (1.2.3)	Day Rato (GBP)	Cost (GBP)	Day Rate (GBP)	Cost (GBP)	Day Rate (GBP)	J	FM	AM	, ,	A	s o	N C	Cost (GBP)	Day Rate (GBP)	Cost (GBP)	Comments / Explanation	% of Time	Comments	Calc. Method
	EL/RA onshore Project Director	1	896.46		921		947			100	43	138	4.8		21,583	973		50% of time charged to REL Shares function with RA, charged separately	60%	John Newton - shared 40/60 between business units RA and REL	3
	OLE Project Manager	•	473.72		487		500				3	B	*		19,009	9 514			100%		3
_4	Team Assistant	•	254.91		262		269				1.8	ns	40		5,114	277	_		50%		3
	Travel & Expenses - for all learn above, prorrate per extended day of project	1	102.49		105		108				-	n	#		4,111	3 111			n/a		n/a

| GRAND TOTAL COSTS, SCENARIO EoT 1: TOTAL : 49,819 | 37,165 | GBP | Non Productive Time Adjustment, UK: -12,654 -25,40% | Adjusted Total 37,165

add 17% Overhead and Profit (to all Estimates on Actual Cost) 6,318 GBP

GRAND TOTAL PRICE REL ONSHORE 43,483 GBP

### Appendix 9: Worksheet VIII, Siemens Rail Automation, offshore portion (Germany)

#### Worksheet VIII: Siemens Rail Automation (RA), offshore portion (Germany)

Partner/(sub)contractor:		Euro
Slemens AG, Mobility Rail Automation		
Scenario:		
EoT 1		
Inflation rates:	Yr. Value	
1: Average inflation , UK	2.76%	
4: Average inflation, Germany	2.80%	

			Y2	009	Y2	010		9		Y2	011		V 04 V		Y2	012			
046	Title / Function	Infl. Rate (1,2,3,)	Day Rate (Euro)	Cost (Euro)	Day Rate (Euro)	Cost (Euro)	Day Rate (Euro)	JE	ма	M J	JA	s c	N D	Cost (Euro)	Day Rato (Euro)	Cost (Euro)	% of Time	Comments	Calc. Method
,	Siemens AG, Germany	N - 70	-zuu-																1 —
	<sup>2</sup> Senior Project Manager		936		962		989				54 16			30,070	1.017		80%		2
3	Projektkaufmann / Signalling Commercial & Contract Manager	2	936		962		989				4.6 11	8.8		24,808	1,017		66%		2
4	Qualitätsmanager / Qualitymanager	2	936		962		989				12 71			12,404	1.017		33%		2
5	Yeam Assistant	2	936		962		989	+			25 (1.	4.0		18,794	1,017		50%		2
7	Travel & Expenses - for all team above, prorrata per extended day of project	2	139		143		147				7 23	8		5,569	151.		n/a		n/a

GRAND TOTAL COSTS, SCENARIO EoT 1: 71,483 Euro 59,569 GBP TOTAL: 91,644
Non Productive Time Adjustment, Germany: -20,162 -22.00%
Adjusted Total 71,483

add 17% Overhead and Profit (to all Estimates on Actual Cost) 10,127 GBP

GRAND TOTAL PRICE RA OFFSHORE
69,696 GBP

## Appendix 10: Worksheet IX, Siemens Rail Automation, onshore portion (UK)

Worksheet IX: Siemens Rail Automation (RA), onshore portion (UK)

Partner/(sub)contractor:		GBP
Siemens plc, RA FTN York		
Scenario:		
EoT 1		
Inflation rates:	Yr. Value	
1: Average inflation, UK	2.76%	
2:		
3:		
4:		

			Y2	2009	Y2	010					Y201	1				Y2	012				
Pos	Title / Function	infl. Rate (1.2.3,)	Day Rato (G8P)	Cost (GBP)	Day Rato (GRP)	Cost (GBP)	Day Rate (GBP)	3 8	MA		, ,	٨	slo	N O	Cost (GBP)	Day Rate (GBP)	Cost (GBP)	Comments / Explanation	% of Time	Comments	Calc. Method
,	Project Office Edinburgh									11									_		
	EL/RA onshore Project Director, based in Edinburgh)	,	896		921		947				2.8	17	3.2		14,389	973		1 day p/wk for duration	40%	John Newton - shared 40/50 between business units RA and REL	3
						-				H											ļ
- 77	STS York																				
3	Project Manager, based in York	,	549		564		579			Ħ	14	18.6	64		17,609	595		3 days p/wk for duration	80%		3
-4	Project Engineering Manager	1	440	,	452		464			++	2.0	730	2.6		5,821	477		5 days p/wk for duration	33%		3
	Planner	1	305		313		322				.0.7	3.2	9.1		1,222	330	4	2 days replanning /	10%		3
6	Project Accountant	1	312		320	- 1	329				or	53	g.s		1,251	338		0.5 days per week for	10%		3
7	Commercial / Financial	1	415		426		438				28	62	2.7		6,657	450		1 day priveek for duration	40%		3
8	Team Assistant	1	145		149		153				10	16	2-6		1,162	157		1 day p/week for duration	20%		3
-																			_		
10	Transmitton	-					_			++			-						-		+
	Project Manager	1	549		564		579				10	16-2	94		17,609	595		3 days p/wk for duration	80%	,	3
13						-															
	Travel & Expenses - for all team above, promata per extended day of project	1	199		204		210				1	m	*		7,972	216			n/a		nia

GRAND TOTAL COSTS, SCENARIO EoT 1: 54,973.27 GBP TOTAL: 73,691
Non Productive Time Adjustment, UK: -18,717 -25.40%

Adjusted Total 54,973

add 17% Overhead and Profit (to all Estimates on Actual Cost)

GRAND TOTAL PRICE RA ONSHORE 64,319 GBP

## Appendix 11: Worksheet X, Additional Cost of Money and Additional Escalation, Siemens scope

#### Worksheet X: Siemens original scope, Additional Cost of Money & Extended Escalation Costs

		GBP
Siemens I MO TK (Turnkey Systems )		
Scenario:		
EoT 1		
Inflation rates:	Yr. Value	
1: Average inflation UK	2.76%	
4: Average salary inflation, Germany	2.80%	

					Y2	010	Υ.Υ	2011	Y2012	
Pos	Title / Function	Infl. Rate (1,2.3)	TOTAL (GBP)	Cost (GBP)	Month Rate (GBP)	Cost (GBP)	Month Rate (GBP)	Cost (GBP)	Month Rate (GBP)	Cost (GBP)
137	Cost of Money									
138										
139	Cost of Money		26,688		26,688		26,688	26,688	26,688	
140										
141	Escalation Costs		74,863		74,863		74,863	74,863	74,863	

101,551

GRAND TOTAL COSTS, SCENARIO EoT 1:	414471010101	3	
	101,551	GBP	
add 17% Overhead and Profit (to all Estimates o	on Actual Cost)		

received on time: 43.151,045.29 Contract Award actual

123,184,394,53 95,977,941,83 219,162,335,85

ontract Award Rev.0 14.Acr.08 ontract Award actual 15.May.08

-£0.00

		V	1				57,826,896.53	45, 151, 193,62	7.675,702.91	Inish date	finish daté		interest	25,588.07 2.12%	74,81 2.76%
13 14	4 L	Activity ID	Activity Narras			Contractor	Contract Value	direct costs	OH & Profit	Contract Date (Rev. 0)	Rev. 1	no mpact	Dearing days	Financing Costs	
- 1		Section C	Incentrysation	Prelims	. 0	S	1,200,000.00	1,025,641,03	174,358.97	17-Jan-11	10.Mar. 11	A STATE OF THE PARTY OF THE PAR	52	526.17	40
HERE		Section D	Incentresation	Prelims	0	8	1,200,008.00	1.025,641.03	174,358.97	16-Jul-) 1	05.Sep.11		52	526.17	4.00
men		A16010	Set Track (265m) - 60%	Track	- tA	8	228,473.45	195,276.45	33,197.00	15-Fab-10	09. Jun 10		114	219.63	- 3
E10E2		A16010	Set Track (265m) - 40%	Track	1A	8	152,315.63	130,184.30	22,131.33	15-Fet-10	09 Jun 10		114		
115511		A15930	Set Track (160m)	Track	14	. 8	229,910.24	196,504.48	33,405,76	19-Aug-09	09.aun.10		294		
1001200m	1 to	A15850	Set Track (50m)	Track	1A	S		0.00	0.00	20-Mar-09	07.Jul.09		103		
92913800	-	A15860	Place upper concrete and cure	Track	1A	5	71,846.75	61,407.47	10,439,27	31-Mix-09	10,44.09		101		
FRAT NEW	-1	A15770	Set Track (125m)	Track	1A	8		0,00	0.00	11-Feb-09	20 May 09		US		
BSATT NO		A15780	Place upper concrete and cure	Yearsk	1,A	15	179,617.52	(53,519.25	26,098.27	16-Feb-09	28 May.09		90		
RINISH		A15890	Set Track (100m)	Track	1A	- 5	and all controls	0.00	0.00	28-Nov-Git	03.Feb.09		67		
BOAR FROM	<b>1</b> 10	A15700	Place upper concrete and cure	Track	TA:	9	142,204 94	121,542.68	20,662.26	4-Dec-08	06 Feb.08		54		-
STAYO Man	mil :-	A15810	Set Track (150m)	Track	1A	- 3		0.00	0.00	15-Mar-10	21.May.10		67		_
8181 FM	-	A15620	Place upper concrete and cure	Track	1A	5	215.540.90	184,222,99	31,317.91	18-Mar-10	26.May.10		69		
BHAS BEEN	100	A15350	Set Track (260m) - 50%	Track	1A	S	165,247,85	141,237.47	24.010.37	22-Oct-09	09.Mar.10				
OCAS SAME		A15350	Set Track (280m) - 50%	Track	1A	8	165.247.85	141,237.47	24.010.37	Z2-Oct-09	09.Mar. 10		138	192.29	
1000		A15270	Set Track (330m) - 50%	Track	1A	8	237 // 94 92		The second secon						
of separate	-	A15270	Ser Track (330m) - 50%	Track				202,645.23	34,440.69	16-Aug-30	08.Nav.10		84		
Married Co.					1A	8	237.094.92	202,645.23	34,449 20	16-Aug-10	08.Nov.10		14		
Mark		A15190	Set Track (470m) - 50%	Track	1A	s	237,680,68	288.616.98	49,064.72	10-May-10	29.Jul 10		110		
March 1		A15190	Set Track (470m) - 50%	Track	1A	S	337,650.69	285,615,98	49.054.72	10-May-10	29.5cf.10		80	227.79	
NAME OF			Set Track (30m)	Track	1A	3		0.00	0.00	25-Aug-08	08 Jan 10		136	05	
March .		A16160	Place upper concrete and cure	Tends	1A	9	43,108,05	36,844 48	6,283,56	28-Aug-69	13.Jan.10.		138	50.16	
1000 AND		A15050	Set Track (230m) - 50%	Track	1,4	8	165.247.85	141,237.47	24,010.37	8-Jul-09	30.Oct.09,		114	158.85	
DOM: N		A15050	Set Track (230m) - 50%	Track	1A	S	165,247.85	141,237.47	24.010.37	8-241-08	30.Oct.09		114	158.85	
<b>HISHERMAN</b>	-	A14910	Set Track (230m) - 50%	Track	1A	S	165,247.85	141,237.47	24.010.37	21-34-10	17.Sep.10		58	80.82	
BOAR BRID	To the	A14910	Set Track (230m) - 50%	Track	1A	\$	165,247.85	141,237,47	24,010.37	21-Jul-10	17.Sep. 10		58	80.82	
STATE STATE	i i in	A14680	Set Track (390m) - 50%	Track	1A	S	280,202 97	239,489.72	40,713.25	26-May-10	19.Apr. 10		-37	-87.42	
FIXE BANK	- 254	A14650	Set Track (390m) - 50%	Track	1A	S	288,202.97	239,489.72	40,713.25	26-May-10	19.Apr. 10		-37	-87.42	
THE RESERVE	NA THE	A12500	Set Track (50m)	Track	1B	S		000	2.00	28-Jan-09	06.May 09		98	G	
Section Section	ALC: Yes	A12510	Place upper concrete and cure	Track	18	- 2	49,884 26	42,636,12	7,248.14	2-Feb-09	11.May.09		dat	41.22	
THE PERSON		A12580	Set Track (50m)	Track	18	8		0.00	0.00	23-F+t0-08	02.Jun.09		99	0	
STATE STATE		A12590	Place upper concrete and cure	Track	18	19	49,884.26	42,636.12	7,248,14	26-Feb-09	05.Jun.09		99		
STATE OF THE PERSON		A12660	Set Track (50m)	Track	18	\$	45.004.10	0.00	0.00	19-Mar-09	30 Jun 08		103		
100		A12670	Place upper concrete and cure	Truck	15		49.834.76	42,636.12	7.248 14	24-Mar-09	03.Jul 09		101	42,48	-
10000		A12740	Set Track (250m)	Track	18	8	198 590 43	169,735.41	28,856.02	6-May-09	19 Aug. 09		105	175.83	_
COM S		A13130	Set Trace	Track	18	S	175.540.07	190,034.93	25,505.94	17-Jun-09	09.Oct.08		114	168.74	
	86.	A12820				S				4-Aug-09	04 Dec.09	-	122		
Service .			Set Track (250m)	Track	18		196,590,43	160,735.41	28,855.02					204.30	_
Comments of the		A13210	Set Track	Track	18	5	175,540.87	150,034.93	25,506.94	14-500-89	28, Jan 10		136		
11000 B		A12900	Set Track (250m)	Track	18	S	198,590.43	169.735.41	28,855.02	5-Nov-09	23.Mar. 10		138		
		A13290	Set Track	Track	18	S	175,540,87	150,834 93	25,505.94	1-Mar-10	04.May.10		64		
2002		A12980	Set Track (100m)	Track	18	S	79,436 17	67,934.18	11,542.01	26-Mar-10	10.Jun.10		76		
<b>939683</b>		A13370	Set Track	Track	1B	S	70,215.95	60,013.63	10,202.32	20-Apr-10	05.Jul.10		76		
21925866	Dist.	A13060	Set Track (300m)	Track	18	S	238,306,52	203,662 49	34,625.02	16-Jun-10	27 Aug. 10		72		
STATE OF THE	(2th	A13450	Set Track	Track	18	S	210,648.52	180,041.47	30,607.05	3-Aug-10	13.Oct 10		71	126,11	
MARKET AND DESCRIPTION OF THE PERSON NAMED IN COLUMN	F-1	A16230	Set Track (300m) - 50%	Track	10	5	195,346,12	106,962.40	25,383.62	5-Jan-10	22.Apr.10		107	176.25	
STATUL SAME	The last	A16230	Set Track (300m) - 50%	Track	1C	S	195,346.12	166,962.49	28,383.62	5-Jan-10	22.Apr.10		107	175,25	
THE REAL	The Ren	A16350	Set Track	Track	1C	S		0.00	0.00	28-May-10	300000000		-40326	0	
PERCENTAGE AND PROPERTY.	ne la	A16360	Place upper concrete and cure	Track	10	1	344,754,33	294,061,82	50,092,51	3-Jun-10	05.Jul.10		32	93.03	
Total Labor	-	A16310	Place upper concrete and cure	Track	10	9	78,830.53	67,205.58	11,424.95	29-Jun-10	29.Jul.10		30	19.89	
PHILIP) and	-	A16420	Place upper concrete and cuts	Track.	1G	- 3	66,950.60	58,1132.14	10,018.46	20-Jul-10	08.Oct.10		80	46.51	
Intel Man	- to-	A16500	Place upper concrete and cure	Yrack	1C	9	106,190,54	90.761.14	15,429.38	2-Jun-10,	27,May.10		-6	-5.37	
British British		A16560	Street Surface finishers	Track	10	9	91,934 36	79,576,37	13,357.96	8-Jul-10	28.Jun.10		-10	-7.75	
1000	100	A16620	Set Yrack (150m)	Track	1C	8	69.519.27	59,415,16	18,101.08	29-Sep-10	29.Sep.10		0	0.00	
SHIPS SHOW	-	A18830	Place upper concrete and cure	Track	1C		294.847.08	252,000.05	42,841.03	4-Oct-10	4.10.2010		- 1	1.76	
THE PARTY	-	A16710	Piece upper concrete and cure	Track	1C	5	294,178.63	251.434.72	42 743 90	3-Mar-10	18.May.10.		76	188.53	
and the state of	No.	A16790	Place upper concrete and cure	Track	10	- 2	294,178.83	251,434,72	42.743.90	17-Jun-10	28.Sep 10		103	255.50	
THE RESERVE		A16860	Set Track (360m)	Ymck	10	5	706,026.97	603 443 56	102.585.41	3-Feb-10	03.Mar.10		28	166.70	
1000		A8380	Place upper concrete and cure	Track	10	3	50.165.13	42.876.18	7,288.95	24-Feb-09	30.Mar 09		34	14.38	
		A8470	Street Surface finishes	Track	10	3	44,420.58	37,966,31	6,454 27	20-Mar-09	24,Apr.09		39	13.11	_
Mary .	100	A8740	Place upper concrete and cure	Tenck	10	6	14 355 25	12,269,45	2,085.81	26-Jun-09	29.Jun,09		33	0.36	
HINGS .		A8820		2311000	10	-			2,037,08	22-Jul-09	18.Nov.09	-	119	14,07	
COLUMN TWO			Street Surface finishes	Track		-	14,019.70	11,962.86			06.Jan.10		106	12.63	
Section in con-		A8890	Set Track (30m)	Yrack	10	- 5	14,355.28	12,269.45	2,085 81	22-Sep 09		-	106	12.53	_
No.	- 110	A8970	Place upper concrete and cure	Track	10	9	14,019,93	11,982.85	2,037.08	14-Oct-09	28.Jan.10		200	3 23	_
STATE OF THE PERSON		A13810	Set Track (950m) - 1st Half	Track	10	3.	383,070,65	327,410,61	55,659.84			-			
I ELLE		A13810	Set Yrack (950m)	Track	10	S	468,197,46	400,168,77	69,038 69	17-Jun-09	18.Jun,09		1	3,95	
THE PARTY	10	A6630	Place upper concrete and cure	Track	10	9	19,938.40	17,041.37	2,697.03	2-Mar-09	03.Apr.09		32	5.38	
P1571 33500	100	A6710	Street Surface frances	Track	10	6	18,965.10	16,209.48	2,755.61	26-Mar-09	30 Apr 09		36	5.60	
THE REAL PROPERTY.	1	A6990	Place upper concrete and cure	Track	1D	.5	19.936.40	17,041,37	2,897.03	2-Jul-99	16,Jul 09		14	2.35	
STATE OF THE REAL PROPERTY.	Ton	A7060	Place upper concrete and cure	Track	10	5	19,472.42	16,643.10	2,829 33	23-Jul-09	19 Nov 09		119	19.54	
Sello Silver	17	A7150	Place upper concrete and cure	Track	1D	8 1	19,938.40	17,041,37	2,897.03	30-Sep-09	14.Jan.10		106	17.82	
	100	A7220	Place upper concrete and cure	Track	10	8	19,472 42	16,643.10	2,829.33	19-Oct-09	02.Feb.10	-	106	17.40	

	w landard	The second second			20				finish date	finish date		interest	2.12%	2.76%
3 (4 (	5 Activity ID	Activity Name			Contractor	Contract Value	direct costs	OH & Profit	Contract Date (flev. 0)	Rev. 1	mond	bearing days	Finencing Costs	Escalation of
	A7430	Place upper concrete and cure	Track	10	9	69.384.71	59.303.17	10,081,54	10-Jul-09	24.10.00	T	14	8.19	
	A7490 A7590	Set Track	Track	10	S	67,763,46	57,917,48	8,845.97	16-Sep-09	02.Oct.09		16		
	A7660	Place upper concrete and cure	Track	10	8	19,141.00	16,359.83	2,781,17	16-Nov-09	07,Apr.10		142	22.92	
	A8010	Place upper concrete and cure Place upper concrete and cure	Track	10	9	18,693 69	15,977.51	2,716.18	14-Jan-10	04.May.10		110	17.34	
	A8080	Place upper concrete and cure	Track	10	8	43,066.42	36.808.90	6,257.51	19-Feb-10	12.Mar. 10		21	7,63	
	A8150	Set Track (410m)		10	S	42,050,46	35,949,11	6,111.35	12-Man-10	03.Jun, 10		53		
Name of	1129	Track Laying - 1 Third	Track	10 2A	8	387,799.71	331,452,74	96,346.97	26-Nov-09	15.Nov.09		-10		
	1129	Track Laying - 1 Third	Track	2A	3	632,336.05 632,336.05	540,458.16	91,877.89	22-Oct-08	19.Jan 09		89		
1 Street !-	1129	Track Laying	Track	2A	9	316,168,02	\$40,458.16 270,229 08	91,877.80	22-Oct-08	19.Jan.09		89		
3 1 March 2 16	1059	Track Laying ROJ - MUR - 1 Hull	Track.	5A	8	408.805.37	349,406.30	45,938.94 59,399.07		19.Jan 05		69		
Contract to	1059	Track Laying ROJ - MUR	Track	5A	8	334.477.12	285,877,86	48,599.24	11-Jan-10 11-Jan-10	22.Apr.10 22.Apr.10	-	101	348.16	
-2 (Sheek to	530	Tracklaying	Track	5A	8	1,610,977,26	1,376,903,69	234,073.62	9-Sep-10	04.Nov.10	-	701 56	284.88	_
THE REAL PROPERTY.	1619	Track laying - 50%	Track	58	S	805,048.93	688,076.01	116.972.92	13-Feb-19	10.Mar.09		25	760.71	_
TAXABLE IN	1619	Track laying	Track	56	S	805.048 93	688,076.01	116,972.92	13-Feb-09	10.Mar.09		25		-
1	1659	Track laying - 50%	Track	58	\$	431,628.31	368,913.09	62,716,22	25-tan-09	16.Mar.09		16	200,18	-
17 (19)	1659	Track laying - 50%	Track	58	S	431,828.31	388,913.09	62,715.22	20-Jan-09	16.Mar.09		55		-
Towns 7	919	Track laying - 25%	Track.	55	S	460,891.27	323,924 18	66,967,11	15-Jan 59,	09.Feb.09	-	25		
I I Street !	919	Track laying - 25%	Trace.	58	- 9	460,891.27	393,924 16	66,967,11	15-Jan-09	09.Feb.09		25		
I Shad to	919	Track baying - 25%	Track	58	5	480,891,27	393,974,15	96,867.11	15-tan-09	09.Feb.09		25		
A Tables	919	Track laying	Track	58	S	460,891.27	300,924,16	86,967.11	15-Jan-09	09.Feb.09		25	97.16	
THE PERSON NAMED IN	879	Track laying	Track	58	8	1,155,885.55	987,936.37	167,949 18	19-14ev-GB	16.Dec.08		27		
	839	Track laying	Track	5B	5	618,516.10	528,646,24	89,869,86	8-Sep-09	11.Sep.09		3	15,65	
	839	Track laying	Track	58	- 5	618,516.10	528,646.24	89,869,86	8-Sep-09	11.Sep.09		3	15.65	
	789	Track laying sub-section 06 Edin Park Cerrinal I		5C	S	478,788.25	409.219.02	69,567.23	4-Dec-68	12.Feb.09		70		
-	789	Track laying sub-section 06 Edin Park Central t		SC	8	718,179,37	613,828.53	104,350,85	4-Dec-08	12 Feb.09		70		
	478	Track Laying	Track	5C	5	885,124.74	756.516.87	128.607.67	21-May-10	18.Aug.10		81	604,55	
	769	Truck Laying - 50%	Track	sc	S	442.562.37	378,258,44	64,303,93	21-Jul-09	27.Oct.09		99	365,72	
	769	Track Laying	Track	5C	S	442,562,37	376,256,44	64,303.93	21-Jul-09	27.Oct.09		98		
	204	Track Laying Depot	Track	6A	5	218,458.09	186,716,32	31,741.77	5-Jun-09	07.Jul.09		32		
	204	Track Laying Depot	Track	BA	- 8	218,458.00	186,716.32	31,741.77	5-Jun-09	07 Jul.09	-	37		
	419	Yrack Laying Depot	Track	6A 7A	8	218,458.09	186,716.32	31,741,77	5-Jun-09	60.101.50		32	90,00	
	419	Track Laying - 60% Track Laying - 40%	Track	7A	\$	1.874.471.71	1,602,112.57	272.359.14	21-Oct-09	10.Feb.10	-1	112		
1000	389	Track Laying IPR to AIR - 50%	Track	TA.	5	1,875,688.71 744,023.30	1,603,152,74	272,535,97	21-Oct-09 3-Dac-09	10,Feb.10 24,Mar.10	-	112	1771.A3 696.39	_
	389	Track Laying IPR to AIR - 50%	Trucs	7A.	8	744.023.30	635.917.35	108,105.95	3-Dec-09	24.Mac.10	-	111		
	A17060	Install Fibre Optic Cables	SOC	14	8	222,504.72	190,174.98	32,329,75	2-Jul-10	28.Aug.10		55		79
	A17070	Install Signalling Wayside Equipment	SCC	1A	S	5,989.57	5.122.71	870.86	21-300-10	13 Aug. 10		53		
-	A4315	Package Test Tramstop	SCC	1A	9	34,132,23	29.172.86	4,959.38	14-502-10	Z3.Nov.10		70		15
The same of the	A3910	Install Fibre Optic Cables	SCC	1A	8	382,708.12	327 100 96	55,607.16	23-Dec-10	24.Feb.11		63		1,5
A DESCRIPTION OF THE PERSON OF	A3920	Install Signalling Wayside Equipment	scc	1A	S	10.308.94	8.811.06	1,497 88	13-Dec-10	14.Feb.31		63		
Times .	A4350	Package Test Tramstop	SCC	1A	8	34,132,23	29,172.85	4,959.38	5-Jan-10	28.May.10		143		3
a classes	A4390	Package Test Tramstop	scc	1A	S	34,132.23	29,172.85	4,959.38	5-Jul-10	05.200.10		G		
A Library Town	A4430	Package Test Tramstop	500	1A	S	34,132.23	29,172,65	4,959.38	24-Dec-30	16.2 2011		54	15.54	1
Total Co.	A3780	Install Electrical Cables	SCC	18	\$	151,303.21	129,318 98	21.984.23	13-Aug-10	20,061.10		68	86.76	- 6
Comments in	A3790	Install Fibre Optic Cables	SCC	18	S	151,303,21	129,318.98	21,984.23	13-Aug-10	20.Oct.10		68	86.75	- 6
CONTRACTOR	A3800	Install Signalling Wayside Equipment	SCC	18	S	151,303.21	129,316.98	21,984.23	31-Aug-10	05.Nov.10		86	84.20	6
11.7 <b>89000</b> () A	A3765	Installation of poles and building fixings	SCC	10	\$	151,300.21	129,318.96	21,984.23	13-Jul-10	20.5ep.10		69	88,03	6
I Steel 17	A4470	Package Yest Tramstop	SCC	18	S	34,132.23	29,172.85	4,959.38	10-Aug-10	19.Oct.10		70	20.15	15
of Laboratory	A4510	Package Test Tramstop	800	18	9	34,132,23	29,172,65	4.959.38	28-May-10	10.Aug. 10		74	- portugat	- 15
THE REAL PROPERTY.	A3860	Install Clectrical Cables	SCC	1C	\$	151,303.21	129,318.98	21,984.23	21-Od-10	03 Feb.11		105		1,0
THE PERSON NAMED IN	A3870	Install Fibre Optic Cables	SCC	10	8	151,303.21	129,318,98	21,984.23	21-0/2-18	03 Feb. 11		105		1,0
OF STREET	A3880	Install Signalling Wayside Equipment	SCC	1G	5	151,303.21	129,318.96	21,984.23	22-Nov-10	U3.Mar.11		101	128.86	9
Anna .	A3845	Installation of poles and building fixings	scc	10	6	151,303.21	129,31# 98	21,984.23	9-Sep-10	15 Nov.10	-	67	85.48	- 6
1000	A2680	Package Test Tramstop	scc	1C	5	16,905.98	14,449.56	2,456,42	23-Feb-10	18.Oct.10	-	237		2
7 m	A4550	Package Test Tramstop	SCC	10	S	16,905,39	14,449.58	2,458.42	22-Nov-10	14.Jan.11		53		
	A4630	Package Test Tramstop	SCC	16	5	16,905.18	14,449,58	2,456,42	23-Nov-09	10 Feb.10	-	79		
	A4590	Package Test Transicp	SCC	10	S	16,905.98	14,449,56	2,456.42	17-Mar-10	17 Mar 10	-		0.00	
	A3820	Install Electrical Cables	SCC	10	9	151,303.21	129,316,98	21,984,23	19-May-10	13.Jul.10		65 55		5
dig term	A3830	Install Fibre Optic Cattles	SCC	10	- 5	151,303.21	129,318 98	21,984,23	19-May-10	13.Jul.10 29.Jul.10	$\rightarrow$	52	The same of the sa	5
	A3840 A3805	Install Signalling Wayside Equipment Installation of poles and building flongs	SCC	10 10	0	151,303 21	129,318.98	21.984.23 21.984.23	7-Jun-10 16-Apr-10	11.Jun.10	-	54	71.45	
	A4670	Package Test Tramstop	SCC	1D	8	103,037,22	88,066,00	14,971,22	22-Apr-10	22 Apr. 10		0	0.00	- '
	A4060	Install Electrical Cables	SCC	2A	9	133,667.58	114,245.60	19,421,79	5-Oct-09	03 Nov.09		29		
1 100	A4070	instali Fitre Opic Cables	SCC	2A	9	133,667,58	114.245.80	19,421,79	5-Oct-09	03.Nov.09		29		
11	A4090		SCC		9	133,667.58	114,245.80	19,421,79	21-Oct-09	19 Nov.09		29	32 69	
100	A4045	Install Signating Wayside Equipment Installation of poles and building fixings	SCC	2A 2A	8	133,067.58	114,245.80	19,421.79	3-Sep-49	02.Oct 09	-	29		
	3rd Party	Third Party Sign-off	SCC	2A	\$	25,000.00	21,367.52	3,632.48	0-Jan-00	- VALUE OF 100	-	0	0.00	
	A4710	Package Test Tramstop	SCC	2A	8	40,499.91	34,615.31	5,884.60	9-Nov-09	03.Mar.10		114		
	A4100	Install Electrical Cables	SCC	5A	- 8	133,667,58	114,245,80	19,421.79	11-Oct-10	18.Nov.10		38		
	A4110	Install Fibre Optic Cables	SCC	SA	S	133,667.58	114,245.80	19,421,79	11-Oct-10	18.Nov.10	-	38		
	A4120	Install Signalling Wayside Equipment	SCC	SA SA	5	133,867.58	114,245.80	19,421,79	27-Oct-10	07 Dec 10		41		
	A4085	Install signalling wayside Equipment Installation of poles and building fixings	SCC	SA SA		133,667,58	114,245.80	19,421,79	9-Sep-10	19.001.10	-	40		
1000			SCC	SA	8					12.022.0		- 0	0.00	
100	3rd Party	Third Party Sign-off	SCC		S	25,000,00	21,367,52	3,632.48	0-Jan-00 29-Jul-10	69 Nov.10		900		
OF STREET	A5110 A5080	Package Test Tramstop Install LV Power Supply and LV Power Equipme		SA SA	\$	8,099,94	6,923.06	1,176.92 1,176.92	29-Jul-10 17-Jun-10	28 Sep 10	-	103,		
T. S. Stewarts														

La	Victoria de					- CO			finish date	finish date	100	interest	2,12%	2.76%
La	1.5 Activity ID	Activity Name			Contractor	Contract Value	direct costs	OH & Profit	Contract Diste (Rev. 0)	Rev. †	no	besiting days	Financing Costs	Escuration co
100	A5100	Install Station Control Equipment + AFC Equipment		SA	S	8,099.98	8,923.06	1,176,92	22-/4-10	02.Nov.10	200	103	7.04	53
	A6270 3rd Party	Installation of SIG-interlocking cubicle Third Party Sign-off	SCC	SA.	8_	8,070,98	6,923.06	1,176,92	16-Jun-10	28 Sep. 10		104		54
R.	AS150	Package Test Tramatop	SCC	5A 5A	S S	25,000.00	21,367.52	3.632.48	0-Inn-00			0	0.00	
ı	A5120	Install LV Power Supply and LV Power Engage		5A	\$	10,124 98 10,124,98	8,653,83	1,471,15	5-Oct-09	27 Jan. 10		114	-	74
200	A5130	install Telecon Equipment	SCC	5A	\$	10,124,98	8,653.63	1,471,15	24-Aug-09	(@ Dec 09		100	-	60
100	AS140	Install Station Control Equipment + AFC Equipment		54	\$	10,124.98	8.653,83	1,471,15	21-Sep-09	13.Jan. 10		114		74
-	A4140	Install Electrical Cables	scc	58	\$	133,667,56	114,245.80	1,471.15	28-Sep-09	20.Jan.10		114		14
to the	A4150	Install Fibre Optic Cables	SCC	35	S	123,667.56	114,245,80	19.421.79	9-Feb-10	10.Mar 10		29		25/
lane.	A4160	Install Signalling Wayside Equipment	SCC	59	S	133,657.58	114,245.80	19,421.79	9-Feb-10	15.Mar;10		29		25
Street, or	A4125	Installation of poles and building frongs	scc	58	S	133,667 58	114,245.80	19,421.79	7-Apt-10 16-Nov-09	07.Mar.10		-31		• 28
244	A\$190	Package Yest Tramstop	SCC	58	S	13,124.98	8,653.83	1,471,15	20-May-10	15 Dec 00		30		25
	A5150	Install LV Power Supply and LV Power Equipme	MISCO	58	S	10,124.98	8.653.83	1,471.15	7-Apr-10	31.Aug.10 19.Jul.10		101		- 6
	AS170	Install Telecon Equipment	SCC	58	- 8	10,124.98	8,653 83	1,471.15	6-May-10	17.Aug 10		103		6
See 1	A5180	Install Station Control Equipment • AFC Equipment	m SCC	58	8	10,124.98	8,653.83	1,471.15	13-May-10	24 Aug 10	-	103		6
	A5230	Package Test Tramstop	SCC	58	8	10,124.98	8,653.83	1,471,15	2-Feb-10	14 May 10		101	8.62	
000	A5200	Install LV Power Supply and LV Power Equipme	SCC	58	S	10,124.98	8,653.83	1,471.15	8-Dec-09	31.Mar.10		113		7
	A5210	Install Telecon Equipment	SCC	56	S	10,124.98	8,653.83	1,471.15	19-Jan-10	29.Apr. 10		100	8.54	6
666	A5220	Install Station Carlini Equipment + AFC Equipment		56	S	10,124,95	8,653.83	1,471.15	26-Jan-10	07 May 10		101		- 6
	A5270	Package Test Tramstop	SCC	58	\$	8,099,88	6,923.06	1,176.92	24-Jul-09	U3 Nov 09		102	6.97	
40.	A5240	Initial LV Power Supply and LV Power Equipme		58	5	88 990,6	6,923.08	1,176.92	12-310-09	22.5ep.09		102	6.97	5
	A5250	Install Telecon Equipment	SCC	59	ŝ	2,099.88	6,923.06	1,176.92	10-Jui-09	20 Oct 08		102		
	A5260	sinstali Station Control Equipment + AFC Equipm	Transmi	58	8	R 099 98	8,923.00	1,176.92	17-Jul-09	27 Oct.09	0 13	102	6.97	
100	A6290 A5310	Installation of SiG-interlocking cubicle	SCC	SB	9	8,099 00	6,923.06	1,178.92	11-Jun-09	22 Sep.(0)		103		5
400	A5280	Package Test Tramstop	SCC	38	8	10,124.98	8,653.83	1,475,15	14-Apr-10	26.Jul.18		103		6
	A5290	Install LV Power Supply and LV Power Equipme install Telecon Equipment	SCC	58	8	10,124,98	8,653.63	1,471.15	2-Mar-10	14.Jun.10		104		
350	A\$300	Install Station Control Equipment + AFC Equipm		5B 5B	8	10,124,98	8,653.83	1,471.15	30-Mar-10	12.oui 10		104		
	51	M & E Works	SCC	58	. S	10,124,98	8,653 63 113,908 19	1,471,15	7-Apr-10	19.44.10	-	103		
	52	OLE Supports	OLE	58	5	133,272.58	113,968.19	19.364.33 19.364.39	24-May-05	24 May 09		. 0	0,00	
	373	Catenary Cahles	OLE	59	S	133,272.58	113,908,19	19.364.39	6-May-09 13-May-09	06 May 09		- 0	6.00	
-	A4200	Install Signalling Wayside Equipment	SCC	50	8	267,335.16	228,491.59	38,843.57	9-Jul-10	13 May 09 18 Sep. 10	-	89	155.54	1,17
	A16980	Install Signating Wayside Equipment	SCC	5C	8	267,335.16	228,491.59	38,843.57	25-Jan-10	18 Mar. 10		50		80
	A5350	Package Yest Tramstop	SCC	90	8	10,124.98	8,653.83	1,471.15	31-Aug-09	00 Dec 00		100		- 6
arm)	A5320	Install LV Power Supply and LV Power Equipme		SC	S	10,124.98	8,653,83	1,471,15	17-Jul-08	27.Oct.0		102		
leni i	A\$330	Install Telecon Equipment	SCC	SC	S	10,124.98	8,663.83	1,471.15	17-Aug-09	24 Nov.09		99	8.45	
Trees 1	A5340	Install Station Control Equipment + AFC Equipm	SCC	5C	S	10,124 98,	0,653.83	1,471.10	24-Aug-09	02 Dec 09		100		- 6
Orași I	AS390		scc	5C	S	10,124.98	8,653.83	1,471,15	15-Dec-09	US.Apr 10		114		7
6006	A5360	Install LV Power Supply and LV Power Equipme	SCC	5C	8	10,124.98	8,653 83	1,471,15	2-Nov-09	24.Ftb.10		114		7
100	A5370	Install Telecon Equipment	SCC	5C	S	10,124 98)	8,653.83	1,471 15	1-Dec-09	24 Mar. 10		113	9.65	,
200	A5380	Install Station Control Equipment + AFC Equipment	SCC	5C	5	10,124.98	8,653 83	1,471.15	8-Dec-09	31 Mar. 10		113	9.65	7
	A2545	Installation of workshop equipment	SCC	GA	S	379,995.01	321,354,71	54,630,30	25-Feb-10	30.Apr.10		64	202.91	1,55
1	A4220	Install Electrical Cables	scc	6A	S	325,985.01	321,354,71	54,630.30	25-Sep-09	16,Nov.09		52	164.86	1,26
	A4230	Install Fibre Optic Cables	SCC	6A	S	375,385.01	321,384 71	54,630,30	25-Sep-09	18.Nov.03		52		1,26
	A4240	Instill Signaling Wayside Equipment	SCC	HA	S	275,985.01	921,354,71	54,630.30	13-04-09	03.Dec.09		51	161.69	1,23
9	A4205		SCC	6A	8	375,985.01	321,354.71	54,630.30	26-Aug-09	15.Oct.09		50	158.52	1.2
	A4205	Installation of poles and building fixingsb - 50%	800	EA.	S	375,986.01	321,354.71	54,630.30	25-Aug-09	15.Oct.09		50		1,21
	A2550	'inspection and Testing	scc	6A	S	256,530.88	219.257,16	37,273,72	25-Mar-10	01.Jun.10		68		1,12
	A4260	Install Electrical Cables	SCC	7A	8	133,667.58	114,245 80	19,421,79	6-Apr-10	14.Jun 10	_	69	77,77	55
	A4270	Install Fibre Opic Cables	SCC	7A	S	1303,667,58	114,245.80	19,421,79	6-Apr-10	14.Jun 10		69		55
	A4280 A4245	Install Signalling Wayside Equipment Installation of police and building fixings	SCC	7A	3	133,667.56 133,667.56	114,245.80	19,421.79	12-May-10	19.Jul.10		68		51
	A5430	Package Test Transicp	SCC	7A	S	18,124 98	8,653.83	1,471.15	15-Feb-10 9-Mar-10	22.Apr.10		The second secon	The second second	5
	A5400	Install LV Power Supply and LV Power Equipme		7A	8	10,124.98	8.653.83	1,471.15	25-Jan-10	21.Jun.10 87.May.10	-	101	The second secon	
100	A5410	install Telecon Equipment	SCC	7A	5	18,124.98	8,653.83	1,471,15	73-Feb-10	07,May,10		101		-
Name of	A5420	Install Station Control Equipment - AFC Equipment		7A	\$	10,124.98	8,853.83	1,471,15	2-Mar-10	14.30% 10		104	88.8	- 1
free:	A5470	Package Test Tramstop	SCC	7A	8	8,099.98	6,923.06	1,176.92	25-Jun-10	05.Oct 10		102		
Rental I	A5440	Install LV Power Supply and LV Power Equipme	SCC	7A	8	9,099.98	6,923.06	1 176.92	73-May-10	24.Aug 10		102		
and the	A5450	Install Telecon Equipment	300	7A	8	8,099.98	6,923.06	1,176 92	11-Jun-10	21 Sep. 10		102		
District of	A5460	Install Station Control Equipment + AFC Equipment		7A	8	8,099.98	6,923.00	1,176.92	18-Jun-10	28.5ep.10		102		
Marrie 1	A6360	Installation of SIG-interlocking cubicle	scc	7A	S	8,098.98	6,923,00	1,176.92	5-May-10	17.Aug 10		10#	7.10	
Section 1	A17020	Overhead Catenary Line	OLE	1A	8	185,429,30	158,486.58	26,942.72	S-Jul-10	27.Aug.10		53	82.87	6:
Shall I	A17020	Overhead Catenary Line	OLE	1A	5	185,429.30	159,486.58	26,942,72	5-Jul-10	27.Aug.10		53	82.87	6
Lam's	A5520	Testing and Commissioning	OLE	1A	8	264,225.90	242,928,12	41,297.78	24-Sep-10	98. Oct. 10		14	33,55	2:
Property lies	A3890	Overhead Catenary Line	CLE	1A	8	318,938 40	272,596.92	46,341.48	17-Jan-11	07,Mar.11		49	131,78	1,0
SAME.	A3890	Overhead Catenary Line	OLE	1A	5	318,938,40	272,596.92	46,341,48	17-Jan-11	GF,Mar.11		49	131.78	1,0
1	A3770	Overhead Catenary Line - One Half	OLE	18	S	254,260.82	217,316.94	36,943.88	16-Aug-10	21.Oct.10		66		1,0
1	A3770	Overhead Catenary Line	OLE	18	S	381,391.23	325,975,41	55,415,82	16-Aug-10	21.Oct.10		66		1,63
April 1	A5570	Testing and Commissioning	OLE	18	S	284,225 90	242,928.12	41,297,78	13-Aug-10	27_Aug.10		14		25
1	A3850	Overhead Catenary Line - One Half	OLE	1C	\$	528.815.57	451,979.12	76,836.45	29-Oct-10	11.Feb.11		105		3.56
100	A3890		OLE	1C	S	352,543.72	301,319.42	51,224,30	29-Oct-10	11.Feb.11		105		2,39
	A5600		OLE	1C	S	56,845.18	48,585 62	8.259.56	15-Oct-10	29.Oct.10		14		_ 5
1	ASS90	Install LV Power Supply and LV Power Equipme		10	8	56,845.18	48,585.62	8,259.56	10-Sep-10	24 Sep. 10		14)		- 1
Page 1	A\$610	Install Telecom and Scada	DLE	10	S	\$6,545.18	48,585 62	8.259.56	15-Oct-10	20.Oct.10		14		
A STATE OF THE PARTY OF THE PAR	A6120 A6130		OLE	10	9 5	56 845 18 56,845 18	48,585 52 48,585,62	8,259.58 8,259.58	13-Aug-10 29-Nov-10	01.Oct.10 10.Mar.11	_	101	23.49 48.41	18
St. Committee														

1.3 1.4	L5 Activity ID	Activity Name			Contractor	Contract Value	direct costs	OH & Profit	Enish date Contract Date (Rev. 0)	finish date Rev. 1	no	interest	2,12%	2.76%
121 / Hand	A3810	Overhead Catenary Line	OLE	10	\$	493,401.20	421,710.43	71,690.77		Attendo	moast	bearing days	Financing Costs	
2077	A4050	Overhead Catenary Line	OUE	2A	8	317 965 77	271,765.61	46.200.15	21-May-10 25-Sep-09	15.Jul. 10		65		
ALC: SHOW	A5650	Installation of TPS Equipment	OLE	2A	S	71.056.48	60,732 03	10.324,45	8-Dep-09	26 Oct.09 05 Jan. 10	_	31		
	AS640	Install LV Power Supply and LV Power Equipm	RIOLE	2A	\$	71.056 48	60,732.03	10.324.45	2-Nov-09	16.Nov.09		25		
DU SHIME	A5870	Testing and Commissioning	OLE	2A	3	71,056.48	60,732.00	10.324.45	11-Jan-10	25.Jan. 10	_	14		
117 g MINE	A5560	Install Telecom and Scada	DLE	28	S	71,056.48	60,732,03	10,324.45	8-Dec-09	05.Jan.10	-	1.4		
er denn	A4090	Overhead Catenary Line - One Half	OLE	58	8	363,956.83	311,074,04	52,882 58	9-Nov-10	20.Dec.10	-	28		
DATE DISS	A4090	Overhead Catenary Line	OLE	5A	8	242.637.75	207,382.70	35,255.06	9-Nov-10	20.Dec.10		41		
	A5850	Installation of TPS Equipment	OLE	5A	S	71,056 48	60,732.03	10,374.45	23-Jul-10	25 Jun 10,	-			
DATA NAME	A5840	Install LV Power Supply and LV Power Equipm	e(OLE	GA.	S	71,056,48	00,732.03	10,324.45	18-Jun-10	20,May 10	-	-28		
UUL)	A5870	Testing and Commissioning	CLE	5A	S	71,056.48	60,732.03	10.324.45	13-Aug-10	15 Jul. 10	-			
DESCRIPTION OF THE PERSON NAMED IN	AS860	Install Telecom and Scada	CLE	5A	5	71,056,48	60,732 03	10,324.45	23-JUI-10	25.Jun 10	-	-29		
China I	A4130	Overhead Catenary Une - One Sorth	CLE	58	S	282,721.04	241,641.91	41,079.13	1-Apr-10	04 May 10	-	-28		
	A4130	Overhead Catenary Line - One Sixth	OLE	58	8	282,721.84	241,641.91	41,079.13	1-Apr-10	04.May.10	-	NPM:	76,67	
- House	A4130	Overhead Catenory Line - One Sixth	QLE	58	S	282,721.04	241,641.91	41,079.13	1-Apr-10		-	33		
	A4130	Overhead Catenary Line - One South	OLE	68	S	267,721.04	241,641,91	41,079.13	1-Apr-10	04.May.10	-	33		
100	A4130	Overnead Catenory Line - One South	OLE	58	S	282,721.04	241.641.91	41,079,13		04.May.10	-	33		6
Time.	A4130	Overhead Catenary Line	OLE	69	S	471,201,73	402,736,52	68,465.21	1-Apr-10 1-Apr-10	04.May.10	-	33		6
- Minu	64	OLE Supports	OLE	58	S	32 259 34	27,572,08	4.687.25		04.May.10	-	33		1.0
The same of	75	Catenary Cables	OLE	58	S	32,259.34	27,572.08	4,657.25	9-Apr-09	07.Apr.09	-	- 2		
- the	265	OLE Supports and Catenary over Tracks	QLE	5B	5	32,259,34	27.572.08	4,637.25	22-Apr-09 11-May-09	20.Apr 08	-	-2	-0.54	
- Breed	A5900	Installation of TPS Equipment	OLE	58	S	71,055 48	60,732.03	10.324 45	11-May-03	21 Apr 09 13 May 10	-	-20 -20		
Train.	A5890	Install LV Power Supply and LV Power Equamo		58	S	71,056,48	60,732.03	10,324 45	6-May-10					. 1
III TO SERVICE	A5920	Testing and Commissioning	OLE	58	S	71,056,48	60,732.03		1-Jul-10	07,Apr.10	-	-29	-17.38	- 1
and the same	A5910	Install Telecom and Scape	OLE	58	S	71,056,48	60,732,03	10.324 45		03,Jun.10	-	-28	-16.78	
To the same	A14150	OLE Supports and Catenary over Tracks	OLE	58	S	133,272.58	113,908.19	19.364.39	11-Jun-10	13.May,10		-2)	-17.38	. 1
	A4170	Overhead Cateriary Line	OLE	5C	3	305,146.23	312,890.79	53,055,43	24-May-09	24.May.09	-	0		
Total Security	A16930	Overhead Catenary Line	OLE	50	-5	365,146.23	112,090,79	53,055,43	18-385-10	96 Sep. 10	-	68		1/6
- Dame	A5950	Installation of TPS Equipment	OLE	6A	s	134,002.85	114,609.27	5.00 E-10 C-10 C-10 C-10 C-10 C-10 C-10 C-10 C	2-Feb-10	09 May 10	-	50		1,
	A5940	Install LV Power Supply and LV Power Equipme		6A	3	134,092.85	114,609.27	19,463.58 19,483.58	TS-Oec-09	16.Feb.10/	-	14	15.83	
100	A5970	Testing and Commissioning	OLE	6A	8	134,092,85	114,609.27	19.483.58	22-Feb-10	72.Jan.10	-	28	31.66 15.83	
	AS960	Install Telecom and Scage	CEE	SA.	s	134,092,85	114,609.27	19,483.58	2-Feb-10	16.Feb.10	-	14	15.83	
111	A6330	Installation of SIG interlocking cubicle	OLE	AS	5	134,092.85	114,609 27	19,483.58	29-Dec-09	26,Jan.10	-	28		
MIT SA	A4210	Overhead Catenary Line	OLE	6A	S	84.994.25	72,644.86	12,349.59	11-Dec-09	15.Feb.10	-	66		5
	A4250	Overhead Catenary Line - One Third	OLE	7A	S	424.061.42	362,445.68	61,615.76	23-Apr-10	01,Jul.10	-	69	47,30 246,73	1.8
	A4250	Overhead Catenary Line - One Third	CLE	7A	8	318,046.00	271,834.24	46,211.82	23-Apr-10	01.Jul.10	-	69	185.05	1,4
100	A4250	Overhead Catenary Line	OLE	7A	8	318,046,06	271,834.24	46,211.82	23-Apr-10	01,Jul.10	-	69		1,4
	A6000	Installation of TPS Equipment	OLE	74	3	73.781.01	63,060,69	10,720.32	16-Mar-10	30, Mar, 10,	-	14		
	A5990	Install LV Power Supply and LV Power Equipme		76	5	73,781,01	63,060,69	10,720.32	19-Nov-09	10.Mar.10		111	69.06	5
Section 2	A6020	Testing and Commissioning	OLE	7A	S	73,781.01	63.060.69	10,729.32	6-Apr-10	20.Apr.10	-	14		3
mark .	A6010	Install Telecom and Scada	OLE	7A	5	73,781.01	63,060.69			THE RESERVE AND ADDRESS OF THE PARTY OF THE	-			
HIE	A1680		part of the same o	1A	3	The state of the s		10,720.32	16-Mar-10	30.Mar.10	-	14		1
MIN	The state of the s	Deliver and Install Shelter	Soruciures		0	34,772.76	29.720.31	5,052.43	22-Jun-10	07.09.10	-		22 58	
MI .	A1720	Deliver and install Shelter	Structures	14		34,772.75	29,720.31	5,052,45	5-04-09	10.03.10	$\rightarrow$	156	45.74	3
110	A1800	Deliver and Install Shelter Deliver and Install Shelter	Sunctures	1A	3	34,772.75	29,720:31	5,052.45	15-Apr-10	15.04.10	-		0.00	
	A2560		Structures	18	9	34,772.76	29,720.31	5,052.45	7-Oct-10 21-May-10	16,11.10	-	74		1
	A2600	Deliver and Install Shelter Deliver and Install Shelter	Structures	18	5	34,772.76	29,720.31	5,052.45	10-Mar-10	21.05.10	-			-
	A2660	Deliver and install Shelter	Structures	10	8	34,772.76	29,720,31	5,052.45	3-Nov-09	28.06.10	$\rightarrow$	72	69.49	
	A2720	Deliver and install Sheller	1000	1C	- 5	34,772.76				12,10,10	-	36	10.56	5
			Structures.		8	TOTAL PROPERTY OF THE PARTY OF	29,720.31	5,662.45	6-Sep-10		-			
	A2780	Deliver and install Shelter	Structures	10	3	34,772.76	29,729.31	5,062.45	7-Sep-09	21.10.10	-	409	119.92	. 9
	A2750 A2810	Oeliver and install Shehar  Deliver and Install Shehor	Structures	10	8	34,772.76	29,720.31	5,062.45 5,062.45	25-Nov-09 3-Feb-10	25.11.09	-	- 0	0.00	
100	A2480	Deliver and Install Shelter	Structures.	2A	9	34,772.76	29,720.31	100000000000000000000000000000000000000		02.11.09	$\rightarrow$	78	ALC: CONTRACT CONTRAC	
110	A2030	The second secon	Shructures	5A	0	The state of the s	29,720.31	5,052,45	24-Aug-09	10 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A	-	104	30.49	
7 NO.	A2300	Deliver and install Shelter  Deliver and install Shelter	Structures Structures	5A	5	34,772.76	29.720.31	5,052 45 5,052 45	12-May-10 17-Jul-09	24.08.10	-		20.91	- 1
Section 1	45	For Rads	Structures	58	5	34,772,76 32,259.34	27,572.08	4.687.25	30-Mar-09	26.03.09	-	102	-1.09	2
	A2080	Deliver and Install Shotter		56	5	34,772.76	29,720.31		2-Mat-10	14,06,104	-	104	30.49	-
	A2230	Deliver and Install Shelter	Structures	58	20	34,772.76		5,052.45	2-Nov-09	24.02.10	-	114	33.43	
			Structures		9		29,720.31	5,052.45			$\rightarrow$			2
	A2140	Deliver and Install Shelter	Structures	58		34,772.76	29,720.31	\$,652.45	7-May-09	18.08.09	-	103	30.25	
	A2110	Deliver and Install Sheller	Structures	58	5	34,772.76	29,720.31	5,052.45	26-Jun-10	07.05.10	_	101	29.61	
	90	S27 Edinburgh Park Station bridge - Fox Ratis	Structures	58	S	133,272 58	113,908.18	19,364.99	30-Apr-09	30.Apr.09	-	100	29.91	
	A2170 A2200	Deliver and Install Shelter	Structures	5C	8	34,772.76	29,720.31	5.052,45	12-Jun-09 28-Sep-09	22.09.09	-	102	33.43	2
		Deriver and Install Shelter	Structures	5C		34,772.76	29,720.31	5,052,45				1111000	33.43	2
	A1940	Deliver and Install Shelter	Structures	7A	8	54,772.76	29.720.31	5,052,45	8-Dec-09	31,03.10	-	113		
COAL PROPERTY	A1880 Snagging	Oeliver and Install Shelter Snagging	Structures.	7A 7A	9	34,772.76 351,24	29,720.31	5,052,45 51,03	7-Apr-10	19,07.10		103	30.20	2.



ETN Programme comparison V26 vs V31

A12000 A13780 A12000 A13780 A12000 A1	10 SAS - PSIVI 19 33 BAR - EOP 18 8AS - SOR 19 7A OOG - ARK 19 7A OOG - ARK 19 7A OOG - ARK 10 SIR 9AS - SOR 10 SIR 9- HAV 10 SIR	Andrews require - Process sheeth (COL-1800 viel. 720m streetseet SAL - SAU bealth lines (1160mail) table lines SAL - SAU bealth lines (1160mail) table lines Ballow sheet (500-800 in had 200m mbedded Ballow sheet (500-800 in had 200m mbedded CON - FONY 310-320 viel. 720m SAN - (52-3 790ma) CON - FONY 310-320 viel. 720m SAN - (52-3 790ma) CON - FONY 320-92730 viel. 720m SAL - (51-3 790ma) CON - (500-320ma) process SAL - (51-3 790ma) process SAL - (51-	22 22 26 10 10 10 10 10 10 10 10 10 10 10 10 10	1 1501/000 0 22/10/200 1 150/200 0 22/10/200 0 22/10/	13097009 25017209 251172029 010372910 19117203 21097299 24097209 04127203 04127203 04127203 25097209 25097209 25097209 15097209 15097209 15097209 15097209 15097209	21 20 10 10 20 20 20 20 20 44 4 3 6 6 6 6 6 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4	25/1/2010 05/02/2010 05/02/2010 19/02/2010 17/1/2010 12/03/2010 11/03/2010 15/03/2010 15/03/2010 15/03/2010 27/03/2010 25/03/2010 15/03/2010 25/03/2010 15/03/2010 15/03/2010 15/03/2010 15/03/2010	0 1000/2039 1 1600/2039 2 200/2030 0 4005/2030 1 1702/2028 1 1702/2028 2 2710/2029 1 106/2039 2 200/2039 2 200/2039			300000000000000000000000000000000000000	
16 16 16 16 16 16 16 16 16 16 16 16 16 1	19 33 BAR - EOP 18 8A5 - MOR 18 8A5 - MOR 18 8A5 - MOR 18 8A6 - MOR 19 50 BAR - EOP 18 8A7 - MOR 14 CON - FOW 1A CON - FOW 1B FOW - BAS 1D SMP - HAY	SAL - SALD behalter that of 115 behalt beach lainer SAL - SALD behalter that 115 behalt behalt behalter Elikher streen 600-800 six had 125 behalter Behalt - SPS - 115 behalter 125 behalter Behalter streen 600-800 six had 125 behalter Behalter streen 600-800 six had 125 behalter Behalter SPS - 115 behalter SPS - 115 behalter Behalter SPS - 115 behalter SPS - 115 behalter SPS - 115 behalter Behalter SPS - 115 behalter SPS - 115 behalter SPS - 115 behalter Behalter SPS - 115 behalter	22 26 26 26 26 26 26 26 26 26 26 26 26 2	1 1501/000 0 22/10/200 1 150/200 0 22/10/200 0 22/10/	13097009 25017209 251172029 010372910 19117203 21097299 24097209 04127203 04127203 04127203 25097209 25097209 25097209 15097209 15097209 15097209 15097209 15097209	21 20 10 10 20 20 20 20 20 44 4 3 6 6 6 6 6 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4	08-03/005 05-02/005 19-04/015 17/14/005 12/04/015 11/05/005 16/07/005 19-06/005 27/04/005 27/04/005 27/04/005 27/04/005 27/04/005 27/04/005 27/04/005 27/04/005 27/04/005 27/04/005 27/04/005 27/04/005 27/04/005 27/04/005 25/03/	0 1000/2039 1 1600/2039 2 200/2030 0 4005/2030 1 1702/2028 1 1702/2028 1 1702/2029 1 1702/			300000000000000000000000000000000000000	19. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14
A12000 A13000 A1	18 8.45 MDR 18 8.45 MDR 19 5.0 8.47 E.FD 14 C.OH - FOW 14 C.OH - FOW 15 C.ED - C.OH 18 F.OW - 845 18 F.OW - 845 18 F.OW - 845 18 F.OW - 845 18 F.OW - 845 10 S.HP - HAY 10	Elifibro street 600-800 fait had 250m embedded Ruffur Street 600-800 from that 200m Buffur 522, 790 m2 CON FOW 21-00 340 burts 450m embedded CON FOW 23-09, 2700 burts 750m DEP - 6005 550m20 best EPA - 601, 790 m20 permitted EPA - 601, 790 m20 permitted EPA - 601, 790 m20 permitted EPA - 601, 790 m20 permitted FOW 0-000 burts 7 FOW 0-000 burts	26 10 20 25 25 25 30 30 44 44 44 44 44 44 44 44 44 44 44 44 44	50 02/2000 50/10/2006 50 160/2	20017029 99110209 01030509 121072010 20057610 20057610 20057610 04107009 23007009 23007009 21052010 21052010 21052010 21052010 21052010 21052010 21052010 21052010 21052010 21052010 21052010	26 10 20 15 22 20 22 20 44 4 4 4 4 4 4 4 4 4 4 4 4	09/03/2016 19/04/2016 17/14/2006 27/03/2016 11/03/2016 11/03/2016 18/04/2016 27/06/2016 27/06/2016 27/16/2016 27/16/2016 27/16/2016 27/16/2016 25/16/2016 25/16/2016	2303/2000 64/2/2025 16/2/2025 17/2/2025 17/2/2025 17/2/2035 12/2/2035 12/2/2035 1/2/2/2035 1/2/2/2035 1/2/2/2035 1/2/2/2035 1/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2			3000	00: 144 177 186 187 187 187 187 187 187 187 187 187
A15769 8-14-590 8-14-590 8-14-590 8-14-590 8-14-590 8-14-590 8-14-590 8-14-590 8-15-	18 8AS. JUDB 95 50 BAR. EDP 1A COH. FOW 1A COH. FOW 1A COH. FOW 15 50 EDP - GOO 35 58 BAR. EDP - GOO 54 58 59 50 EDP - GOO 54 50 EDP - GOO 54 50 EDP - GOO 54 50 EDP - HAY 10 SHP - HAY 10 SH	RAMOUS steet 600420 Find said 20th BAMI - CPS 705m2 South 450m embedded COM FOW 210-23-90 such 450m embedded COM FOW 240-270 such 250m CPS - CPS 562m2 bost EPA - CPS 750m2 open typick EPS - CPS 954m0 Find Find Find Find Find Find Find Find	10 XX	1602/2016 1602/2016	01002010 19117206 20057000 20057000 04107200 04107200 1500200 2100200 2100200 2100200 2100200 2100200 2100200 2100200 2100200 2100200 2100200 2100200 2100200 2100200	10 20 15 20 20 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	19.04/2010 17/1 1/2006 27/03/2010 11/03/2010 11/03/2010 15/03/2010 27/04/2010 27/04/2010 27/04/2010 27/04/2010 25/03/2010 25/03/2010 16/04/2010	04.05/2010 16/12/2025 17/29/2010 13/29/2010 13/29/2010 13/29/2010 11/29/2010 11/29/2010 12/29/2010 12/29/2010 16/20/2010 16/20/2010 16/20/2010 16/20/2010 16/20/2010 16/20/2010			3	14 17 16 16 16 16 16 16 16 16 16 16 16 16 16
A1 2540 A1 2550 A1 255	29 50 80 AM. EDP  1A COM. FOW  1A COM. FOW  1A COM. FOW  15 CEDP. FOW  29 5C EDP. FOW  29 5C EDP. FOW  29 5C EDP. FOW  18 FOW. 8AS  18 FOW. 8AS  18 FOW. 8AS  18 FOW. 8AS  10 SMP. HAY  10	RAMOUS steet 600420 Find said 20th BAMI - CPS 705m2 South 450m embedded COM FOW 210-23-90 such 450m embedded COM FOW 240-270 such 250m CPS - CPS 562m2 bost EPA - CPS 750m2 open typick EPS - CPS 954m0 Find Find Find Find Find Find Find Find	20 15 25 25 25 25 25 25 25 25 25 25 25 25 25	29/09/200 5 29/09/200 5 29/09/200 6 29/09/200 6 29/09/200 6 18/09/200 6 29/09/200 7 16/09/200 7 26/09/200 8 29/09/200 8 29/09/200 8 29/09/200 8 29/09/200 9 29/09	01(0/2010 1911/2006 21(0/2010 20(0/2010 20(0/2010 21(0/2006 21(0/2006 21(0/2006 21(0/2006 21(0/2006 21(0/2006 21(0/2006 21(0/2006 21(0/2006 21(0/2006 21(0/2006 21(0/2006 21(0/2006 21(0/2006) 21(0/2006) 21(0/2006) 21(0/2006) 21(0/2006) 21(0/2006) 21(0/2006) 21(0/2006) 21(0/2006) 21(0/2006)	10 20 15 25 27 20 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	17/1-1/2006 27/03/2010 12/03/2010 11/03/2010 15/03/2010 16/03/2010 27/04/2010 27/04/2010 27/04/2010 27/04/2010 27/04/2010 25/03/2010 16/04/2010	16/12/2028 17/03/2010 13/2/2010 13/2/2010 13/2/2010 11/2			3	17 16 17 16 17 16 17 16 17 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
A1 4910 A1 4680 77 77 78 85 A1 2600 A1	NA CON - FOW NA CO	CON FOW 210-02-90 track 450m embedded CON FOW 240-920 track 150m DEP - 00-05 562md best 150m DEP - 00-05 562md bes	18 25 33 30 30 44 44 44 44 44 44 44 44 44 44 44 44 44	6 01/07/2016 6 21/04/2016 6 08/06/2009 6 08/07/2009 6 18/07/2009 6 18/07/2009 6 21/07/2009 7 16/07/2009 7 16/07/2009 6 13/07/2009 6 14/07/2009 6 14/07/2009 6 14/07/2009 6 24/06/2009 6 24/06/2009 6 24/06/2009 6 24/06/2009 6 24/06/2009	2107/2010 2105/2010 2105/2010 2105/2009 2103/2009 1503/2009 2105/2010 2105/2010 2105/2010 2105/2010 2105/2010 2105/2010 2105/2010 2105/2010	15 22 20 44 4 3 6 65 47 4	27/03/2010 12/03/2010 11/03/2005 15/03/2005 27/05/2005 27/05/2005 27/04/2005 27/04/2005 27/04/2005 25/03/2005 16/04/2005	17/09/2010 19/4/2010 27/10/2009 11/09/2009 11/09/2009 02/09/200 02/09/200 02/09/200 02/09/200 02/09/200 02/09/200 02/09/200 02/09/200 02/09/200 02/09/200			3	27 Maria 11
A12580 A12580 A12580 A12500 A1	10 CON - FOW 17 SC EDP - COO 29 5C EDP - COO 29 5C EDP - COO 18 FOW - 8AS 19 FOW - 8AS 19 FOW - 8AS 19 FOW - 8AS 10 FOW - 8AS 10 SMP - HAY 10 SMP	CON: FOW 2449-2730 wast, 2(bin DEP - CIDIS SEPTIME to SEPTIME	18 25 33 30 30 44 44 44 44 44 44 44 44 44 44 44 44 44	6 91/07/2016 6 21/04/2016 6 08/06/2009 6 08/07/2009 6 18/07/2009 6 18/07/2009 6 21/07/2009 7 16/07/2009 7 16/07/2009 6 13/07/2009 6 14/07/2009 6 14/07/2009 6 14/07/2009 6 24/06/2009 6 24/06/2009 6 24/06/2009 6 24/06/2009 6 24/06/2009	2107/2010 2105/2010 2105/2010 2105/2009 2103/2009 1503/2009 2105/2010 2105/2010 2105/2010 2105/2010 2105/2010 2105/2010 2105/2010 2105/2010	15 22 20 44 4 3 6 65 47 4	12/03/2010 11/03/2005 15/01/2005 15/01/2005 27/05/2005 27/04/2005 27/04/2005 27/04/2005 25/03/2005 16/04/2005	19042010 27102020 1207007 1108007 0207007 0207007 0007207 1007007 1007007 1007007 1007007 1007007 1007007			3	17 施工 市 市 市 市 市 市 市 市 市 市 市 市 市 市 市 1 1 1 1
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77. A1 2580 A1 2600 A1 2600 A1 2600 A1 2600 A1 2600 A1 2600 A1 2600 A1 2600 A1 2600 A1 2700 A1 2700	29 SC 2DP - GOOD 18 FOW - 8AS 18 FOW - 8AS 18 FOW - 8AS 18 FOW - 8AS 19 7A GOG - ARE 19 7A GOG - ARE 10 SHP - HAY 10 SHP - HAY 27 ZA 12AY - ROS 82 ZA HAY - ROS 82 7A GOG - ARE 10 MOS - PP	OEP - CROS Schmidt poet ( EPA - CRO Strime) poet typick EPA - CRO Strime   Transported   100 GOO - PRI 1750 m fettor pallato FOW - CRO Strime   Transported   100 GOO - PRI 1750 m fettor pallato Fow - CRO Strime   1511 half Sain emboddon Harmander   1501-112 Sain > 1511 half Sain emboddon Harmander   1501-112 Sain	33 XX	0 08406/000 0841/2000 1 08407/2000 1 18702/000 1 18702/000 2 147/2000 7 1603/2000 1 2002/2000 1 303/2000 1 507/2000 1 507/2000 1 507/2000 1 507/2000 1 507/2000 1 507/2000 1 507/2000 1 507/2000 1 507/2000	04/12/2006 08/09/2006 15/03/2006 15/03/2006 15/03/2009 21/05/2010 25/03/2009 16/03/2009 28/05/2009 28/05/2009	32 20 44 4 3 6 65 47 4	15/01/2005 10/07/2005 27/05/2005 19/05/2005 27/04/2005 27/10/2005 25/01/2005 16/04/2005	120/20009 11/01/2000 02/01/2009 02/01/2009 06/05/2009 10/01/2010 10/01/2010 22/04/2008			4 4 5 5 6 5	三 対 対 対 対 対 対 対 対 対 対 対 対 対
77. A1 2580 A1 2600 A1 2600 A1 2600 A1 2600 A1 2600 A1 2600 A1 2600 A1 2600 A1 2600 A1 2700 A1 2700	29 SC 2DP - GOOD 18 FOW - 8AS 18 FOW - 8AS 18 FOW - 8AS 18 FOW - 8AS 19 7A GOG - ARE 19 7A GOG - ARE 10 SHP - HAY 10 SHP - HAY 27 ZA 12AY - ROS 82 ZA HAY - ROS 82 7A GOG - ARE 10 MOS - PP	EPA - QPI. 7 Mining by centrupia: EPA - COP Stelland FOW 0- AND Mark 2 FOW 0- NOT Mark 3 FOW 0- NOT Mark 3 FOW 0- NOT Mark 3 FOW 0- NOT Mark 1 FOW 0- NOT MA	20 44 4 6 65 47 4	0 0511/200 0807/200 1807/200 1600/200 2101/200 7 1603/200 7 1603/200 1303/200 4 2466/200 1507/200 6 2309/200	04/12/2006 08/09/2006 15/03/2006 15/03/2006 15/03/2009 21/05/2010 25/03/2009 16/03/2009 28/05/2009 28/05/2009	20 44 3 6 65 47 4	15/01/2005 10/07/2005 27/05/2005 19/05/2005 27/04/2005 27/10/2005 25/01/2005 16/04/2005	120/20009 11/01/2000 02/01/2009 02/01/2009 06/05/2009 10/01/2010 10/01/2010 22/04/2008			9	2 (0) (0) (0) (1) (1) (1)
A12580 A12500 A10500 A1	39 S8 BAR - EOP 18 FOW: 8AS 18 FOW: 8AS 18 FOW: 8AS 19 FA GOG - AIR 75 SC EOP - OOO 1D SHP - HAY 1D SHP - HAY	ESS - COP Sidemol FOVID Local User 2 FOVID Local User 2 FOVID Local User 3 FOVID Local Us	64 65 65 47	6 0807/2009 1 1877/2009 1 1607/2009 5 21/01/2009 5 22/07/2009 1 20/02/2009 1 3/03/2009 2 4/06/2009 3 2/06/2009 3 2/06/2009 3 2/06/2009 3 2/06/2009	08/09/2009 28/03/2009 18/03/2009 28/03/2009 21/05/2010 25/03/2009 28/03/2009 28/03/2009 28/03/2009	44 3 65 65 47 4	10/07/2005 27/06/2005 19/06/2005 27/04/2005 27/10/2005 00/06/2016 25/03/2005 16/04/2005	11/03/0000 02/04/2009 0 24/04/2009 0 06/04/2009 0 10/04/2010 0 10/04/2010 0 11/04/2010 0 22/04/2008			9	10 17 10 17 18 18
A12660 A12600 A12600 A12600 A12600 A12600 A1260 A1060	18 FOW: 8AS 18 FOW: 8AS 18 FOW: 8AS 19 FA GOG - AIR 73 5C EDP - COG 10 SHP - HAY 10 SHP - HAY	FOW Out On the service of the Committee	65 65 47	1870(1905) 1600(1905) 1600(1905) 1600(1905) 1700(1905)	28/02/2009 15/02/2009 28/01/2009 21/02/2009 21/02/2009 16/02/2009 28/02/2009 20/02/2009	4 3 6 65 47 4	19.06/2005 27/04/2005 27/10/2005 03/06/2010 25/03/2005 16/04/2005	2404/2009 06/04/2009 10/04/2010 10/04/2010 22/04/2009			9	17 10 17 11
A1260 A1060 A1060	18 FOW - BAS 18 FOW - BAS 19 7A GOG - AR 73 5C EOP - GOG 10 SMP - HAY 10 SMP - HAY 22 AA HAY - ROS 23 AAY - ROS 29 7A GOG - AR 10 MP - PIP	FOW Out On the service of the Committee	6 65 47 4 4 4	16:00/2005 5 21:01/2005 7 16:03/2005 6 20:02/2005 6 13:03/2005 6 24/66/2005 6 15:07/2005 8 23/09/2005	15/03/2009 28/01/2009 21/05/2010 25/02/2009 16/03/2009 28/05/2009 28/05/2009	3 6 65 47 4	19.06/2005 27/04/2005 27/10/2005 03/06/2010 25/03/2005 16/04/2005	2404/2009 06/04/2009 10/04/2010 10/04/2010 22/04/2009			9	17 10 17 11
45 45 45 45 45 45 45 45 45 45 45 45 45 4	19 7A GOG - AIR 73 5C EGP - GOO 10 SHP - HAY 10 SHP - HAY 72 2A HAY - ROS 82 7A HAY - ROS 83 7A GOG - AIR 10 MBP - PIP	GOO - PR 1750+ Hor paller CN, -GEP 50mild premitted. Harmanian 1250-172 Sine 3 1st half Sin embodies Harmanian 1250-172 Sine 3 pat half Sin embodies Harmanian 1250-172 Sine 5 sprint Fore embodies Harmanian 1250-172 Sine 5 on half Sin embodies Harmanian 1250-172 Sine 5 in half Sin embodies Harmanian 1250-172 Sine 5 in half Sin embodies Harmanian 1250-172 Sine 6 in half Sin embodies	6 65 47 4 4 4	5 21/01/2005 5 22/07/2005 7 16/03/2015 9 20/02/2005 13/02/2005 6 24/66/2006 6 15/07/2005 8 23/09/2005	2801/2009 21/10/2009 21/05/2010 25/02/2009 18/04/2009 28/02/2009 20/07/2009	6 65 47 4	27/10/2005 00/06/2010 25/03/2005 16/04/2005	0 0605/2009 10/03/2010 10/03/2010 22/04/2009				7
45 45 45 45 45 45 45 45 45 45 45 45 45 4	19 7A GOG - AIR 73 5C EGP - GOO 10 SHP - HAY 10 SHP - HAY 72 2A HAY - ROS 82 7A HAY - ROS 83 7A GOG - AIR 10 MBP - PIP	GOO - PR 1750+ Hor paller CN, -GEP 50mild premitted. Harmanian 1250-172 Sine 3 1st half Sin embodies Harmanian 1250-172 Sine 3 pat half Sin embodies Harmanian 1250-172 Sine 5 sprint Fore embodies Harmanian 1250-172 Sine 5 on half Sin embodies Harmanian 1250-172 Sine 5 in half Sin embodies Harmanian 1250-172 Sine 5 in half Sin embodies Harmanian 1250-172 Sine 6 in half Sin embodies	GS 47	5 23/37/2000 7 16/33/2010 9 20/32/2009 4 13/03/2009 4 24/66/2000 6 15/07/2009 9 23/09/2009	21/10/2009 21/05/2010 25/02/2009 16/0/2009 29/06/2009	65 47 4	27/10/2005 00/06/2010 25/03/2005 16/04/2005	10/01/2010 10/01/2010 21/03/2000 22/04/2000				7
A6690 (A5690 (A5690 (A7050 A7140 (A7210 (116 127 36 (A16290 (A16350	10 SHP - HAY 10 SHP - HAY 22 A HAY - ROS 69 2A HAY - ROS 69 7A GOG - AIR 10 MOR - PIP	ON - GEP Stilling over hack. Humanist 1505-1925 (see 3 1st half Scin embodies Humanist 1505-1925 (see 3 2st half Scin embodies Humanist 1505-1125 (see 3 2st half Scin embodies Humanist 1505-1125 (see 5 st half Scin embodies Humanist 1505-1125 (see 5 st half Scin embodies Humanist 1505-1125 (see 6 st half Scin embodies Huma	47	7 16/3/2010 20/02/2009 13/03/2009 24/6/2000 15/07/2009 23/09/2009	21,05/2010 25/02/1009 18/03/2009 29/06/2009 20/07/2009	47	25/03/2009 16/04/2009	22,040,000		3	0 3	14
A6690 (A5690 (A5690 (A7050 A7140 (A7210 (116 127 36 (A16290 (A16350	10 SHP - HAY 10 SHP - HAY 22 A HAY - ROS 69 2A HAY - ROS 69 7A GOG - AIR 10 MOR - PIP	Harmanier (1506-1925 line 3) is failed file in metodote Harmanier (150-1125 line 3) op hat half files metodote Harmanier (150-1125 line 3) op hat files enthedded Harmanier (150-1125 line 5) op hat files enthedded Harmanier (150-1125 line 6) in hat files enthedded Harmanier (150-1125 line 6) in hat files enthedded Harmanier (150-1125 line 6) and hat files enthedded Harmanier (150-1125 line 6) a	4 4 8 8 8	2002/2005 13/03/2005 24/05/2006 15/07/2005 23/09/2005	25/07/009 16/07/009 29/06/009 20/07/209	:	25/03/2009 16/04/2009	22,040,000		3	0 3	14
76590 95590 97750 97740 97210 115 127 36 916250	10 SHP - HAY 10 SHP - HAY 10 SHP - HAY 10 SHP - HAY 10 SHP - HAY 29 2A HAY - ROS 89 2A HAY - ROS 89 7A GOG - AIR 10 MOR - PIP 10 MOR - PIP	Himmarke 1500-1125 (as o 3 part half Sirk error-Seq Harmarke 1500-1125 (as o 5 part Sirk error-Seq Harmarke 1500-1125 (as o 5 part Sirk error-Sedes Harmarke 1500-1125 (as o 6 to half Sirk error-Sedes) Harmarke 1500-1125 (as o 6 to half Sirk error-Sedes)		13/03/2006 24/06/2006 15/07/2006 23/09/2006	18/0//2009 29/06/2009 20/07/2009	:	1604/2009	22,045,000				100
70550 47740 47740 47740 116 117 127 36 116250	10 SHP - HAY 10 SHP - HAY 10 SHP - HAY 10 SHP - HAY 29 2A HAY - ROS 89 2A HAY - ROS 89 7A GOG - AIR 10 MOR - PIP	Harmanket 1200-1125 (one 5 for half 54m ornheidea Maymanet 1200-1125 (one 6 Smith afficier ambeddes Harmanket 1200-1125 (one 6 for half 54m embeddes Harmanket 1200-1125 (one 6 for half 54m embeddes Harp flota Tradic lauring 1 Hary flota Tradic lauring 1 Hary flota Tradic lauring 1	3	24/09/2006 15/07/2006 23/09/2006	29/06/2009							
A7050 A7140 A7210 116 127 36 A16250	10 SHP - HAY 10 SHP - HAY 10 SHP - HAY 29 2A HAY - ROS 39 2A HAY - ROS 39 2A HAY - ROS 89 7A GOG - AIR 10 MOR - PIP	Harmaniah 1250-1175 fave 6 onlinet 5 im ambiddes Harmaniah 1250-1175 fave für 1m knit 50m embiddes Harmaniah 1250-1125 fave für 3m fahr 54m embiddes Harmin 1250-1125 fave für 3m fahr 54m embiddes Harmin 174k harma 1 Harmin 174k harma 2	3	15/07/2000	20,07/2009							
112 112 116 127 116 127 116350	10 SHP - HAY 10 SHP - HAY 29 2A HAY - ROS 30 2A HAY - ROS 39 2A HAY - ROS 69 7A GOG - AIR 10 MOR - PIP	Hardwald 1.350.1125 fam fill hell 54m embedded Hardwald 1.250.1125 fam fill 3nd half 54m embedded Hardwald Took faming 1 Hay Ros Yeak torno 2	3	23/09/2000			10/11/2009					
112 116 127 36 116250 116250	10 SHP - HAY 29 2A HAY - ROS 60 2A HAY - ROS 79 2A HAY - ROS 60 7A GOG - AIR 1C MOR - PIP	Pferminket 1250-1125 lase the ling half Sem embedded Hep-fine Track laving 1 Hay Riss Track laving 2	3		25/09/2009		06/01/2010					
115 116 127 36 116350	79 2A HAY - ROS 69 2A HAY - ROS 79 2A HAY - ROS 69 7A GOG - AIR 10 MOR - PIP	Hay Res Track laving 1 Hay Res Track torns 2					25/01/2010					
116 127 36 416230 416350	69 2A HAY ROS 29 2A HAY ROS 69 7A GOG - AIR 1C MOR - PIP	Hay Ros Track toyona Z				19	09/12/2008					
127 36 116250 116350	79 7A HAY - ROS 69 7A GOG - AIR 1C MOR - PIP		19				05.05/202					
36 116230 116350	69 7A GOG - AIR 1C MOR - PIP	Hay-Ros Track layers 3	14				10/07/2005			-ttr		4
116230 116350	IC MOR - PIP											
116350		IPR - AIR 61242m belantima	30	22/10/2009			10.002/2010					
		Lefts we'x 0-375 fall had 375m embedded	14			14	01/01/2010				175	13
	10 MDR - PIP	Lerth with 0-376 2ml half 375m embedded London road 375-450 full half 7 fan embedded	14				10/05/2010					12
16410	IC MOR - PIP	Linkson road 375-450 Tell tell 75m chibodopd Linkson road 305-450 Tell Nath 75m systematics	- 6	21/06/2010			20/01/2010					10
							29/09/2010					
8370	1D PS1V - 81-1P	Lathacroad 440 260 fees 2 fall had 500m embedged		15/02/2001			19433/2003			9		346
48450	ID PSW - SHP	Cathanipag 443-200 fase 2 Shahari 100m embessed		09/03/2009		4	03/04/200					4
3730	10 PSW SHP	Lithin road 440-260 fees 3 fel helf 30m emberded		18/06/2003	23/06/2009	4	18060000				,	
18900	10 PSW-SHP	L-MF-MF room 440-280 foce 3 2nd half 30m embedded				4	QUD 1/2000			0 11		
9860	10 PSVY . SHP	Easthary rose 440 260 feve # 1st Fall 30m embedded	34				3011/2003			0		
19960	10 PSIV. SHP	Lathan rood 440-250 face 4-255 half 30m invested		00/10/2003			15/01/2010			0 1		4
12740	2AB - YAO'R	UNA 109-350 full half 250m embodies?	10	72/04/2009		10	05/08/2009	19/08/2000		0 10		
113130	18 FOW - BAS	LVVA 109-360 2nd half 250m	10			10	25/09/2009			0 11		
115950	10 FOLV - BAS	EVVA 360-600 1nt Auril 250nt embodded	10				19/11/2009			0 12		
113210	18 FOW - BAS	LVVA 350-600 2nd half 750m	10	01/09/2003	1409/2009	10	1401/2016	58015010	E 3	0 13	11	14
113050	18 BAS MOR	MicDonald Brunswick, roles 900-1250 for half 300m embrased McDonald Brunswick, roles 960-1250 2nd half 300m	12	01-06/2010	1606/3010	12	11/08/2010	27/08/2010		0	. 4	12
113450	18 8AS - MDR	tribedied	12	16/07/2010	03/06/2010	12	27/09/2010	31/10/2010	6 7	0		44
	SAROS - BAR	Mustayfield - Baterenn road 2012m	27				29/09/2016			0 4		98
16010	IA NHR - OCT	NHR- CCT 0-265 track 6/00 in embedded	25				0408/2011			0 11		0.0
15030	IA RHR - OCT	NHR- OCT 255-425 bank 320m	11				04/12/2000			0 13		
15850	IA NHR - OCT	NHR- OCT 425-475 track 100m		The second second second			30/06/2000			0 10		
15770	1A NHR - OCT	N/IR- OCT 475 600 (rack 250)			0009		06/06/200			0	5 19	OR.
15690	1A NHR - OCT		10	V31 last const	ווינוסט איניי					0 4		67
15610	SA NER - OCT	NHR- OCT 700-850 teck 300m		activity	2006		22/01/2008			Ö		
15350	PA OCT - OOR	OCT - DDR x850-1080 Itack 560m en bodded	10		2010		07/05/2010	21/05/2010		0 13		91
		OCT ODD NOO AND TOOK DOOR OF COOSES	26		237/0/2009	28	20012010			0		
15270 15190	1A 0CT 00R	OCT - OOR 61410- Note 1:	21		1608/2010	21	08/10/2013			0 4		NA.
		COL CONTRACTOR AND	29	29/03/2010	1005/2010	59	18/05/2010					
16150	IA OOR CON	OOR - CON 1850-1 V26 lest construction	4	20/08/2008	2508/2009		0401/2010			0 1		14
15050	IA ODR - CON	COR CON 1880-2 activity	15				09/10/2009			0 11		14
16490	IC PIP - SAS		- 4				18/05/2010					3
16540	IC PIP - SAS	Pictingly place 450-700 2nd half 100m fact 0 endedded	- 3				14052010			0 1		12
16620	1C PIP - SAS	Pulledy place 450-760 Phane 4 300 embedded track	16				07/09/2010					0
12980	18 BAS - NOR 18 BAS - NOR	Philiphone street 610-950 tot helf 100m embedded Philiphone street 610-950 2nd helf 100m	5				07/06/2010 30/06/2014			2 /		196
13810	1D PSW - SHP	Princets (Herr 2004), 1980-1960 1900 n empuddedrack	24				31/03/200					V.
	SAROS BAR	Roseburt - Municiplino 940m	17				29.03/201			0 11		24
011	9 58 BAR - EDP	SAU - BAN Track leving 1260m	29			29	16/12/2006			0 1		in.
5150	10 SHP - HAY	Shanowsk place 850 440 820m embesondrack	31	15/10/2009			02/10/2005			0 1		10
7420	10 SHP - HAY	Toronicon 1125-943 face 1 terms 145m embedded	6				1307/200			ŏ		la.
7400	10 SHP - HAY	Torchisen 1125 840 face 1 2nd hart 1 edin embedded	6				24.09/200			o i		16.
7660	10 SHP - HAY	Toronom 1125-940 Use 2 1st part 40m embedded		08/11/2000			24,09200			0		36
7650	ID SHP - HAY	Toronicon 1125-940 face 2 2nd not 40m embedded	- 1	05/1/2010		Note 2:	1			0 1	E H	gh.
A-01-TRCK-70	6 DEP	Track is not	100		00.000.0000	70 44 44		9 07/07/2005		0 2		12
					V:\UN\0000	70 calender o	lays shift o	WINDIAN.				
	1 COEP	Trackwork	180		10/07/09	in activities /	10			. 1		98
8000	ID SHP - HAY	West Martieve 940-850 hat had 50m embedded	4		1603/3010	working week	× 1"			0		100
8070	ID SHP - HAY	West Mailland 840-850 The full 90m entendeed			03/03/2010		g 11	28,05,0010		0 1		
16700	ICPIP SAS	Yerk place 700 850 300m embedded track	1)				27/04/2016	TANCOOK		0		14
16730	ICPIP SAS	Yesk place 850-1000 SDDM probabilist back	11	28062010	1400/2010	***	09/09/2019	23/09/2010		a 10		***
								SNA Average shift	Ancient on A	-	- 13	t
											calender	

Note 1:

The extended contract period is the difference between the last construction activity V26 against the last construction activity V31, which equals 40 calendar days / 29 working days / 5 8 working weeks.

Note 2:

10 weeks is the average of extended periods for construction of each activity as shown in the last three columns. The first two columns represent the shift and the last column demonstrates the change in the langth of periods. The result is the 10 weeks of additional working.

		Issue of SDS IFC drawings V26V31	Ouration V26	Segin VZ6	Ent VIA	Duration V31		in Valid	End V316	Diff Duration	Dell'atail	DITTENS	Det start :	
1	12100 1A CON - FOW	Is see construction drawings		0 03:10/20	03/14	MOON.	0	25/09/2004	25/09/2008	The same of	0			1
5	11030 IANHR - OCT	lissue construction traverses		0 C3/10/20	04 00V10	V200e	0	06/10/0003	05/10/2008	. 9	0	1	. 0	,
15	12020 1A OCT - ODR	Issue construction drawings		003710730	00 03/10	17908	0	22/01/2004	- 220tmass	3	0 11	E 200		1
20	12060 1A ODR - CON	fesoe prostruction drawners	100	0 03/10/20	08 03/50	V2006	0	-26/09/2008	26/09/2008		0	7	7 0	,
23	12150 18 BAS - MOR	traye construction disregos.	-	0 15050	N 150	(C) 08	0	07/07/2006	07/07/0008		0	3 20	0	1
31	12130 18 FOW - BAS	titue construction graw Note 3:		Note 31		coce	0	07/01/2004	07/07/0008	i )	0 6	) 4	. 0	1
42	12190 TO MOR - PVP	list of continuence of the V26 last date for issue of		V31 last date !	W KKIND N	2005	0	27/08/2006	27/09/2008	6 9	0 %	C - /S	0	,
47	12210 10 PIP - SAS	Is the construction date SDS design		SDS design	or come or	2008	0	25/11/2006	25/11/2008		0 15	0 (6)	0	,
57	17240 IC SAS - PSW	throne countrinction draw 2002 (MC21/1)	1	202 cmdu		2008	0	27/08/2008	20/08/2008		0	0 /00	. 0	,
59	12283 10 PSW - SHP	factive construction drawings		0 21/05/20	08 21/06	V2003	0	04/07/2008	04/01/0006	. 9	0 4	6 4	9	,
TO	12320 10 SHP - HAY	filtitle construction dritwings		0 21/06/90	08 21/05	\$2005k	0	04079008	04/07/2008		0	4 4	0	,
68 93	10340 2A HAY - ROS	taking constitution drawings		0 29/05/20	00 22/00	12008	0	12/05/2008	12/06/2008	. 3	0 1	5 /	0	
93	10090 5A ROS - BAR	linese construction desvenas		0 0000000		72008	0	25/09/2006			0 0	4 (8)	0	,
94	10160 SA ROS - BAR	Have construction deserves		D 03/07/20	06 03/07	10003	0	25/09/2000			0 0	4. 19	0	1
103	12650 38 BAR - EDP	Filling construction drawning.		0 26,0620	00 25/06	V2008	0	22/07/2008			0 1	1 2		ш
104	12903 58 BAR - EOP	little construction detivines		0 26/05/20		5/2008	0	22/07/2008			0	1 4	. 0	1
105	12900 50 BAR EOP	hime commission drawings		0 2656-20		90000	0	22/07/2007			0 0	5 31	0	,
102	17830 59 8AR - EOP	Nove construction dissover.		0 26409/20		10008	0	54/07/2008			0 1	f 51	0	1
112	10590 SC EDP - GCG	have construction displines		0 09/06/20		/2000	O	US406/2008			0 *		0	1
113	12950 SC SDP - GOG	have construction desired		0 090600		/2008	0	05/08/2008			0	- 5	0	,
114	13020 5C EDP GOG	White committees dissingly		0 0000000	09:00	/2008	0	05/06/2008	<b>0</b> 6/08/2008	F 3	0	f 3	0	,
124	13050 7A GOG - AIR	NSUB continuation dispungs		0 07/08/20	08 97/08	V2208	0	92302008	02/10/2008		0	5 51		1
125	13110 7A 000 - AIR	Salve posietruction drawnige		0 07,05/20	99 97/96	12008	0	02/10/2008	03/10/2008		0	6 0	0	
									www.com.com.Com.com			extendes		
									Dal become text of	an activity	33	1 Gays		
		Note 3:									1	6 Weeks		

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Note 3; The 16 weeks additional design activity is calculated on the difference between last issue dates of the SOS design of the V26 and V31 programmes (which results in 111 calender days/16 weeks)

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