Calculator to Estimate Contract Payment Under the Bus Cost Model

(October 2010 Values) (October 2010 Capital and Interest Values)

Example calculation based on average large bus contract

Summary (ex GST)	Example	Your Figures
Daily Kilomet	tres 95	
Bus S	Size Large	
Average Speed (km	/hr) 40	
Fixed Operating Co	osts \$12,698	
Capital C	Cost \$18,412	
Driver's Wa	ges \$13,320	
Vehicle Operating Co	osts \$14,884	
Return on Capital Allowa	nce \$2,294	
Contract Total (ex G	ST) \$61,607	
GST R	ate 10%	
GST on Fixed Operating C	Costs \$1,270	
GST on Capital Allow	ance \$1,841	
GST on Drivers Wa	ages \$1,332	
GST on Vehicle Operating C	Costs \$1,488	
GST on Return on Capital Allow	ance \$229	
Total	GST \$6,161	
Contract Total (inc G	ST) \$67,768	

Fixed Operating Costs (exc GST)

rixed Operating Costs (exc GST)				_
Administration Wage Rate (\$/week)	\$733.30 pe	r week		
Weekly Hours	38.0 ho	urs		
Casual Rate Loading	20%			
Administration Wage Rate (\$/hr)	\$23.16 pe	r hour		
Labour On Costs (Super, LSL, Workers Comp)	15%			
Administration Hours (per month)	11.0			
Insurance (% of Average Bus Value)	1.20%	or	\$541	whichever is the greater
Distance to Inspection Station (km)	20			
Bus Cleaning (hrs/wk)	1.5			

Cost Item	BCM Agreed Value	Includes GST	Value at October 2010 (\$) Extra large	Large	Medium	Small
Insurance & Registration	value	467	Extra range	Laigo	Woodan	Oman
MAIB Insurance Premium	894.00	Yes	812.73			
Comprehensive Vehicle Insurance	094.00	No	1395.90	1356	813	1437
Depot Insurance	120.24	Yes	109.31	1000	010	1407
Public Liability Insurance	1091.48	Yes	992.25			
Vehicle Registration	505.55	No	505.55			
Safety Costs	303.33	740	000.00			
Biannual DIER Safety Inspection						
- Vehicle Check	196.00	Yes	178.18			
- Brake Efficiency test	172.10	yes	156.45			
- Remote Inspection	108.99	Yes	99.09			
Travel to DIER Inspection Station (<40 km)	73.34	No	73.34			
Fire Safety Inspection	28.50	No	28.50			
Operating & Maintenance	20.00	740	20.00			
Depot/Garaging Costs	1247.94	No	1247.94			
Depot Operating Cost	119.94	No	119.94			
Depot Maintenance Cost	239.83	No	239.83			
Bus Cleaning Consumables	318.57	Yes	289.61			
Bus Cleaning Labour	070.07	No	1366.20			
Administration		7.0	1000.20			
Administration/Customer Service		No	3515.69			
Accounting Fees	625.00	Yes	568.18			
Bank Charges	300.00	No	300.00			
Administration Consumables	95.94	Yes	87.22			
Phone/Fax Line - Business Line Complete						
- Rental	419.40	Yes	381.27			
- Call Charges (70/month @ 22 cents)	184.80	Yes	168.00			
Office Furniture and Equipment	101.94	No	101.94			
Sub-Total Fixed Operating Costs	<u> </u>	<u> </u>	\$12,737	\$12,698	\$12,154	\$12,778

Distance to Inspection Station	
0	\$73
40	\$266
80	\$610

Bus Capital Cost (exc GST)

	Extra Large	Large	Medium	Small	UFSO
Maximum Age	25	25	20	10	20
- Avg Purchase Price Motor Registry 2007-2010 -					
13 - 16 yr old (Large & X-Large), 8-12 yr old	83,834	80,535	41,514	105,850	192,334
(Medium & UFSO), New Quote for Small					
- Refurbishment	32,491	32,491	26,202	13,884	0
Capital Allowance	\$116,325	\$113,026	\$67,716	\$119,734	\$192,334
Residual Value	\$13,500	\$13,500	\$16,000	\$28,000	\$50,000
Cost of Finance	8.29%	8.29%	8.29%	9.92%	8.29%
Cost of Equity Capital	22%	22%	22%	22%	22%
% Debt Financed	80%	80%	90%	100%	80%
Weighted Cost of Capital	11.03%	11.03%	9.66%	9.92%	11.03%

^{*} Provisional figures for bus capital cost only. Subject to change prior to offer of New Service Contract

Bus Age at Purchase		Extra Large	Large	Medium	Small	UFSO
C	0	\$18,973	\$18,412	\$9,840	\$17,656	\$29,717
	1	\$18,973	\$18,412	\$9,840	\$17,068	\$29,717
	2	\$18,973	\$18,412	\$9,840	\$16,494	\$29,717
	3	\$18,973	\$18,412	\$9,840	\$15,933	\$29,717
	4	\$18,973	\$18,412	\$9,840	\$15,386	\$29,717
	5	\$18,973	\$18,412	\$9,840	\$14,852	\$29,717
	6	\$18,973	\$18,412	\$9,840	\$14,333	\$29,717
	7	\$18,973	\$18,412	\$9,840	\$13,828	\$29,717
	8	\$18,973	\$18,412	\$9,840	\$13,338	\$29,717
	9	\$18,973	\$18,412	\$9,840	\$12,861	\$29,717
	10	\$18,973	\$18,412	\$9,840	\$12,861	\$29,717
	11	\$18,973	\$18,412	\$9,519	\$0	\$28,680
	12	\$18,973	\$18,412	\$9,205	\$0	\$27,668
	13	\$18,973	\$18,412	\$8,899	\$0	\$26,682
	14	\$18,973	\$18,412	\$8,600	\$0	\$25,721
	15	\$18,973	\$18,412	\$8,308	\$0	\$24,787
	16	\$18,223	\$17,686	\$8,024	\$0	\$23,880
	17	\$17,492	\$16,979	\$7,747	\$0	\$22,999
	18	\$16,780	\$16,289	\$7,478	\$0	\$22,146
	19	\$16,086	\$15,618	\$7,217	\$0	\$21,320
	20	\$15,411	\$14,964	\$7,217	\$0	\$21,320
	21	\$14,756	\$14,330	\$0	\$0	\$0
	22	\$14,119	\$13,714	\$0	\$0	\$0
	23	\$13,503	\$13,118	\$0	\$0	\$0
	24	\$12,906	\$12,540	\$0	\$0	\$0
	25	\$12,906	\$12,540	\$0	\$0	\$0
	26	\$0	\$0	\$0	\$0	\$0

Note: The payment when first entering into a New Service Contract is based on the age of the bus at the time of signing the contract. The capital payment for the period over which the bus is within the permitted age does not reduce. It does not decline as the bus age increases. For example if a large bus is purchased at 19 years of age, then for the next 6 years the contract payment will include the amount of \$12,016 for bus capital.

Drivers Wages (ex GST)

Driver Weekly Rate	\$627.00 per week
Weekly Hours	38.0 hours
Casual Rate Loading	20%
Driver Hourly Rate	\$19.80 per hour
Minimum Call Out Hours*	1.0 hours
Labour On Costs (Super, LSL, Workers Comp)	15%
Morning Inspection Time	15 mins
Afternoon Waiting Time	10 mins
Round Time up to Nearest Minutes	15 mins
Average Speed	40 km/hr
Contract Days	195

Does not include morning Inspection or afternoon waiting times.

Daily Kilometres (Loaded plus Unloaded)		Wage Cost*
	20	\$11,100
	25	\$11,100
	30	\$11,100
	35	\$11,100
	40	\$11,100
	45	\$11,100
	50	\$11,100
	55	\$11,100
	60	\$11,100
	65	\$11,100
	70	\$11,100
	75	\$11,100
	80	\$11,100
	85	\$12,210
	90	\$13,320
	95	\$13,320
	100	\$13,320
	105	\$14,430
	110	\$15,541
	115	\$15,541
	120	\$15,541
	125	\$16,651
	130	\$17,761
	135	\$17,761
	140	\$17,761
	145	\$18,871
	150	\$19,981
	155	\$19,981
	160	\$19,981
	165	\$21,091
	170	\$22,201
	175	\$22,201
	180	\$22,201
	185	\$23,311
	190	\$24,421
	195	\$24,421
	200	\$24,421
	205	\$25,531
	210	\$26,641
	215	\$26,641
	220	\$26,641
	225	\$27,751

^{*} Note that each contract will be paid according to its actual average speed and these figures are illustrative only

Vehicle Operating Costs (ex GST)

venicle operating obsts (ex dor)				
	Extra Large	Large	Medium	Small
Fuel Consumption (I/100km)	35.1	32.9	21.8	15.5
Contract Location*	North			
Gross Fuel Cost (BP Card)	124.31 c/l			
Fuel Grants Scheme Rebate	16.44 c/l			
Net Fuel Cost (c/l ex GST)	107.87			
Variable Operating Costs (cents/km)	49.77	44.86	37.82	28.89

 $^{^{\}star}$ The North West is used in this example. Please note the different fuel prices shown below the table.

Daily Kilometres (Loaded plus Unloaded)					
	20	\$3,418	\$3,133	\$2,392	\$1,779
	25	\$4,272	\$3,917	\$2,990	\$2,224
	30	\$5,127	\$4,700	\$3,588	\$2,668
	35	\$5,981	\$5,484	\$4,186	\$3,113
	40	\$6,836	\$6,267	\$4,784	\$3,558
	45	\$7,690	\$7,050	\$5,383	\$4,003
	50	\$8,544	\$7,834	\$5,981	\$4,447
	55	\$9,399	\$8,617	\$6,579	\$4,892
	60	\$10,253	\$9,400	\$7,177	\$5,337
	65	\$11,108	\$10,184	\$7,775	\$5,781
	70	\$11,962	\$10,967	\$8,373	\$6,226
	75	\$12,817	\$11,750	\$8,971	\$6,671
	80	\$13,671	\$12,534	\$9,569	\$7,116
	85	\$14,526	\$13,317	\$10,167	\$7,560
	90	\$15,380	\$14,101	\$10,765	\$8,005
	95	\$16,234	\$14,884	\$11,363	\$8,450
	100	\$17,089	\$15,667	\$11,961	\$8,895
	105	\$17,943	\$16,451	\$12,559	\$9,339
	110	\$18,798	\$17,234	\$13,157	\$9,784
	115	\$19,652	\$18,017	\$13,755	\$10,229
	120	\$20,507	\$18,801	\$14,353	\$10,673
	125	\$21,361	\$19,584	\$14,951	\$11,118
	130	\$22,215	\$20,367	\$15,550	\$11,563
	135	\$23,070	\$21,151	\$16,148	\$12,008
	140	\$23,924	\$21,934	\$16,746	\$12,452
	145	\$24,779	\$22,718	\$17,344	\$12,897
	150	\$25,633	\$23,501	\$17,942	\$13,342
	155	\$26,488	\$24,284	\$18,540	\$13,787
	160	\$27,342	\$25,068	\$19,138	\$14,231
	165	\$28,197	\$25,851	\$19,736	\$14,676
	170	\$29,051	\$26,634	\$20,334	\$15,121
	175	\$29,905	\$27,418	\$20,932	\$15,565
	180	\$30,760	\$28,201	\$21,530	\$16,010
	185	\$31,614	\$28,984	\$22,128	\$16,455
	190	\$32,469	\$29,768	\$22,726	\$16,900
	200	\$34,178	\$31,335	\$23,922	\$17,789
	205	\$35,032	\$32,118	\$24,520	\$18,234
	210	\$35,887	\$32,901	\$25,119	\$18,679
	215	\$36,741	\$33,685	\$25,717	\$19,123
	220	\$37,595	\$34,468	\$26,315	\$19,568
	225	\$38,450	\$35,251	\$26,913	\$20,013

BP Fuel Card Cost (c/l)	ex GST	inc GST
South	123.24	135.56
North	123.02	135.32
North west	123.14	135.45
Bass Strait Islands	129.68	142.65

Return on Capital Allowance* (ex GST)

netarii ori oupitai Allowanee (ex dor)	
Return on Capital	15.25%
Working Capital (% of Operating Costs)**	3.10%
Working Capital (% of Capital Cost)	4.10%
Infrastructure Costs	\$6,039
Tools	\$1,313
Contingencies	\$2,626
Short Term Bus Hire (weeks)	2

Daily Kilometres (Loaded plus Unloaded)		Extra Large	Large	Medium	Small
,,	20	\$2,131	\$2,119	\$1,982	\$2,092
	25	\$2,141	\$2,128	\$1,989	\$2,098
	30	\$2,152	\$2,138	\$1,997	\$2,103
	35	\$2,163	\$2,148	\$2,004	\$2,109
	40	\$2,173	\$2,158	\$2,012	\$2,114
	45	\$2,184	\$2,168	\$2,019	\$2,120
	50	\$2,195	\$2,178	\$2,027	\$2,126
	55	\$2,206	\$2,187	\$2,034	\$2,131
	60	\$2,216	\$2,197	\$2,042	\$2,137
	65	\$2,227	\$2,207	\$2,049	\$2,142
	70	\$2,238	\$2,217	\$2,057	\$2,148
	75	\$2,249	\$2,227	\$2,064	\$2,153
	80	\$2,259	\$2,237	\$2,072	\$2,159
	85	\$2,284	\$2,260	\$2,093	\$2,178
	90	\$2,309	\$2,284	\$2,115	\$2,198
	95	\$2,319	\$2,294	\$2,122	\$2,204
	100	\$2,330	\$2,304	\$2,130	\$2,209
	105	\$2,355	\$2,328	\$2,151	\$2,229
	110	\$2,379	\$2,351	\$2,173	\$2,248
	115	\$2,390	\$2,361	\$2,180	\$2,254
	120	\$2,401	\$2,371	\$2,188	\$2,259
	125	\$2,425	\$2,395	\$2,209	\$2,279
	130	\$2,450	\$2,418	\$2,231	\$2,298
	135	\$2,461	\$2,428	\$2,238	\$2,304
	140	\$2,471	\$2,438	\$2,246	\$2,310
	145	\$2,496	\$2,462	\$2,267	\$2,329
	150	\$2,521	\$2,486	\$2,288	\$2,349
	155	\$2,532	\$2,495	\$2,296	\$2,354
	160	\$2,542	\$2,505	\$2,303	\$2,360
	165	\$2,567	\$2,529	\$2,325	\$2,379
	170	\$2,592	\$2,553	\$2,346	\$2,399
	175	\$2,602	\$2,563	\$2,354	\$2,404
	180	\$2,613	\$2,572	\$2,361	\$2,410
	185	\$2,638	\$2,596	\$2,383	\$2,429
	190	\$2,662	\$2,620	\$2,404	\$2,449
	195	\$2,684	\$2,640	\$2,419	\$2,460
	200	\$2,694	\$2,649	\$2,427	\$2,466
	205	\$2,719	\$2,673	\$2,448	\$2,485
	210	\$2,744	\$2,697	\$2,470	\$2,505
	215	\$2,754	\$2,707	\$2,477	\$2,510
	220	\$2,765	\$2,717	\$2,485	\$2,516

^{*} Presumes that bus is purchased at minimum age for given bus size

Do not Touch!!!!

Extra Large	Large	Medium	Small	
	2	3	4	5
	2	3	5	7

Index Changes

index Change	es		
	Fuel Price (ex (Mai	ntenance/P Labour	CPI
Jun-06	126.46	133.1	152.2
Dec-06 Jun-07	133.21	137.6	155.1
Jun-07	117.15	138.3	155.4
Dec-07	123.06	136.7	158.6
1 1 00	e 7 of 7 159.50	135.9	13/10/20

^{**} Presumes continued payments at end of the month. If payments made at beginning of month rate changes to 1%