

Appendix 1
Current Ratio

(Rs. million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Current Assets	17503	17369	16288	16385	16385	22545	26967
	Current Liabilities	16630	16385	15135	15153	15421	20353	25196
	Ratio	1.0525	1.0601	1.0762	1.0813	1.0625	1.1077	1.0702
HBL	Current Assets	18658	20319	23091	24428	27509	28858	32945
	Current Liabilities	18137	19433	21900	23031	25943	27694	31013
	Ratio	1.0287	1.0456	1.0544	1.0607	1.0604	1.0420	1.0622

Appendix 2
Cash and Bank Balance to Total Deposit Ratio

(Rs. in million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Cash & Bank balance	813	1052	1145	970	559	630	1399
	Total Deposit	15839	15506	13448	14119	14587	19347	23342
	Ratio	0.0513	0.0678	0.0687	0.0851	0.0383	0.0326	0.0599
HBL	Cash & Bank balance	1435	1265	1997	2001	2014	1717	1757
	Total Deposit	17637	18619	21007	22010	24814	26491	30048
	Ratio	0.0818	0.0679	0.0942	0.0909	0.0812	0.0648	0.0585

Appendix 3
Cash and Bank Balance to Current Assets Ratio

(Rs. in million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Cash and Bank balance	813	1052	1145	970	559	630	1399
	current	17503	17369	16288	16385	16385	22545	26967
	Ratio	0.0464	0.0606	0.0703	0.0592	0.0341	0.0279	0.0518
HBL	Cash and Bank balance	1435	1265	1997	2001	2014	1717	1757
	Current Assets	18658	20319	23091	24428	27509	28858	32945
	Ratio	0.0769	0.0623	0.0857	0.0819	0.0732	0.0595	0.0533

Appendix 4**Investment in Govt. Securities to Total Deposit Ratio****(Rs. in million)**

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Govt. Securities	2733	4120	3589	3673	2413	2301	4804
	Total Deposit	15839	15506	13448	14119	14587	19347	23342
	Ratio	0.1725	0.2657	0.2669	0.2601	0.1654	0.1189	0.2060
HBL	Govt. Securities	2224	2589	3999	3432	5470	5144	6454
	Total Deposit	17637	18619	21007	22010	24814	26491	30048
	Ratio	0.1261	0.1391	0.1904	0.1559	0.2204	0.1942	0.2147

Appendix 5**Loan and Advances to total Deposit Ratio****(Rs. in million)**

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Loan and Advances	8324	7802	8114	8549	10947	13279	15903
	Total Deposit	15839	15506	13448	14119	14587	19347	23342
	Ratio	0.5255	0.5032	0.6034	0.6055	0.7505	0.6864	0.68413
HBL	Loan and Advances	9015	9557	10845	12919	13451	15762	17793
	Total Deposit	17637	18619	21007	22010	24814	26491	30048
	Ratio	0.5111	0.5133	0.5163	0.5870	0.5421	0.5950	0.5921

Appendix 6**Total investment to total deposit Ratio****(Rs. in million)**

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Total Investment	7704	8200	6031	5836	4270	6181	8945
	Total Deposit	15839	15506	13448	14119	15587	19347	23342
	Ratio	0.4864	0.5288	0.4485	0.4133	0.2927	0.3195	0.3832
HBL	Total Investment	4083	9157	10175	9292	11692	10889	11823
	Total Deposit	17637	18619	21007	22010	24814	26491	30048
	Ratio	0.2315	0.4918	0.4844	0.4222	0.4212	0.4110	0.3934

Appendix 7

Loan and Advances to Total working fund Ratio

(Rs. in million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Loan and Advances	8324	7802	8114	8549	10947	13279	15903
	Total Working Fund	18367	17993	16920	17104	17549	22688	27611
	Ratio	0.4532	0.4336	0.4796	0.4998	0.6238	0.5853	0.5760
HBL	Loan and Advances	9015	9557	10845	12919	13451	15762	17793
	Total Working Fund	19501	21316	21240	25730	28871	30525	34315
	Ratio	0.4623	0.4483	0.5106	0.5021	0.4659	0.5164	0.5185

Appendix 8

Investment in Govt. Securities to Total Working Fund Ratio

(Rs. in million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Govt. Securities	2733	4120	3589	3673	2413	2301	4808
	Total Working Fund	18367	17993	16920	17104	17549	22688	27611
	Ratio	0.1488	0.2290	0.2121	0.2147	0.1375	0.1014	0.1741
HBL	Govt. Securities	2224	2589	3999	3432	5470	5144	6454
	Total Working Fund	19501	21316	21240	25730	28871	30525	34315
	Ratio	0.1140	0.1215	0.1883	0.1334	0.1895	0.1685	0.1880

Appendix 9

Investment in Shares and Debentures to Total Working Fund Ratio (Rs. in million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Shares and Debentures	19	22	22	22	440	104	286
	Total Working Fund	18367	17993	16920	17104	17549	22688	27611
	Ratio	0.0010	0.0012	0.0013	0.0013	0.0251	0.0046	0.0021
HBL	Shares and Debentures	11	34	34	34	40	39	73
	Total Working Fund	19501	21316	21240	25730	28871	30525	34315
	Ratio	0.0006	0.0016	0.0016	0.0013	0.0014	0.0013	0.0021

Appendix 10**Performing Loan Loss Provision****(Rs. in million)**

Fiscal year		2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Performing Loan	7245	7664	8262	10802	13096	15724
	Loan and Advances	7802	8114	8549	10947	13279	15903
	Ratio	0.9286	0.9445	0.9664	0.9868	0.9862	0.9887
HBL	Performing Loan	8401	9752	11772	12450	14721	17152
	Loan and Advances	9557	10845	12919	13451	15762	17793
	Ratio	0.8790	0.8992	0.9112	0.9256	0.9340	0.963

Appendix 11**Nonperforming Loan Loss provision****(Rs. in million)**

Fiscal year		2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Nonperforming Loan	557	450	287	145	183	178
	Loan and Advances	7802	8114	8549	10947	13279	15903
	Ratio	0.0714	0.0555	0.0336	0.0138	0.01	0.0119
HBL	Non Performing Loan	1156	1093	1147	1001	1041	641
	Loan and Advances	9557	10845	12919	13451	15762	17793
	Ratio	0.1210	0.1008	0.0888	0.0744	0.0660	0.0360

Appendix 12**Loan Loss Provision Ratio****(Rs. in million)**

Fiscal year		2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Loan Provision	364	358	359	361	356	357
	Non Performing Loan	557	450	287	145	183	178
	Ratio	0.6535	0.7956	0.1509	2.4897	1.9454	2.0056
HBL	Loan provision	643	843	968	1027	1120	795
	Nonperforming Loan	1156	1093	1147	1001	1041	641
	Ratio	0.5562	0.7713	0.8439	1.0260	1.0759	1.2402

Appendix 13

Return on Loan and Advances

(Rs. in million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Net Profit after Tax	291	271	416	455	520	635	674
	Loan and Advances	8324	7802	8114	8549	10947	13279	15903
	Ratio	0.0350	0.0347	0.0513	0.0532	0.0457	0.0478	0.0423
HBL	Net profit after Tax	277	235	212	263	308	457	492
	Loan and Advances	9015	9557	10845	12919	13451	15762	17793
	Ratio	0.0307	0.0246	0.0195	0.0204	0.0229	0.0290	0.0276

Appendix 14

Return on Total Working Fund

(Rs. in million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Net Profit after Tax	291	271	416	455	520	635	674
	Total Working Fund	18367	17993	16920	17104	17549	22688	27611
	Ratio	0.0158	0.0151	0.0246	0.0266	0.0296	0.0280	0.0244
HBL	Net Profit after Tax	277	235	212	263	308	457	492
	Total Working fund	19501	21316	21240	25730	28871	30525	34315
	Ratio	0.0142	0.0110	0.0100	0.0102	0.0107	0.0150	0.01433

Appendix 15

Return on Equity

(Rs. in million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Net Profit after Tax	291	271	416	455	520	635	674
	Total Equity	1063	1147	1314	1482	1658	1875	2057
	Ratio	0.2738	0.2363	0.3166	0.3070	0.3136	0.3387	0.3276
HBL	Net Profit after Tax	277	235	212	263	308	457	492
	Net Profit after Tax	720	858	1063	1324	1542	1766	2146
	Ratio	0.3847	0.2739	0.1994	0.1986	0.1997	0.2588	0.2292

Appendix 16

Total Interest Earned to Total Asset Ratio (Rs. in million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Total Interest Earned	1267	1120	1018	1002	1068	1309	1587
	Total Asset	18809	17629	16563	16745	17064	22330	27253
	Ratio	0.0674	0.0635	0.0615	0.0598	0.0626	0.0586	0.05823
HBL	Total Interest Earned	1326	1149	1201	1246	1446	1626	1775
	Total Asset	18871	20672	23355	24762	27845	29460	33519
	Ratio	0.0703	0.0556	0.0514	0.0503	0.0519	0.0552	0.0529

Appendix 17

Total Interest Earned to Total Working Fund Ratio (Rs. in million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Total Interest Earned	1267	1120	1018	1002	1068	1309	1587
	Total Working Fund	18367	17993	16920	17104	17594	22688	27611
	Ratio	0.0690	0.0622	0.0620	0.0586	0.0609	0.0577	0.0574
HBL	Total Interest Earned	1326	1149	1201	1246	1446	1626	1775
	Total Working Fund	19501	21316	21240	25730	28871	30525	34315
	Ratio	0.0680	0.0539	0.0565	0.0484	0.0501	0.0533	0.0517

Appendix 18

Credit Risk Ratio (Rs. in million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
NABIL	Loan and Advances	8324	7802	8114	8549	10947	13279	15903
	Total Asset	18809	17629	16563	16745	17064	22330	27253
	Ratio	0.4426	0.4426	0.4899	0.5105	0.6415	0.5947	0.5835
HBL	Loan and Advances	9015	9557	10845	12919	13451	15762	17793
	Total Asset	18871	20672	23355	24762	27845	29460	33519
	Ratio	0.4777	0.4623	0.4644	0.5217	0.4831	0.5350	0.5308

Appendix 19

Capital Risk Ratio (Rs. in million)

Fiscal year		2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2005/07
NABIL	Share capital	492	492	492	492	492	492	492
	Risk weighted Assets	10846	10564	11146	11872	14193	16976	19167
	Ratio	0.0454	0.0466	0.0441	0.0414	0.0347	0.0290	0.0256
HBL	Share capital	300	390	429	536	644	772	810
	Risk weighted Asset	11325	12746	14681	16861	18322	19918	21889
	Ratio	0.0265	0.0306	0.0292	0.0318	0.0351	0.0388	0.0370

Appendix 20-A

Growth Rate

Growth rate can be calculated as: $D_n = D_0(1+g)^n$

Here, D_n = Total amount in nth year

D_0 = Total amount in initial year

g = Growth Rate

n = Period

Growth Rate of Total Deposit of NABIL

$$D1 = D_{2000/01} = 15839$$

$$D2 = D_{2001/02} = 15506$$

$$D3 = D_{2002/03} = 1344$$

$$D4 = D_{2003/04} = 14119$$

$$D5 = D_{2004/05} = 14587$$

$$D6 = D_{2005/06} = 19347$$

$$D7 = D_{2006/07} = 23342$$

NOW,

$$D2 = D1 (1+g)^n$$

$$D3 = D2 (1+g)^n$$

$$D4 = D3 (1+g)^n$$

$$15506 = 14119 (1+g)^1 \quad 13448 = 15506 (1+g)^1$$

$$14119 = 13448 (1+g)^1$$

$$\therefore g = -2.11\%$$

$$\therefore g = -13.27\%$$

$$\therefore g = 4.99\%$$

$$D5 = D4 (1+g)^n$$

$$D6 = D5 (1+g)^n$$

$$D7 = D6 (1+g)^n$$

$$14587 = 14119 (1+g)^1$$

$$19347 = 14587 (1+g)^1$$

$$23342 = 19347 (1+g)^1$$

$$\therefore g = -3.31\%$$

$$\therefore g = 32.63\%$$

$$\therefore g = 20.65\%$$

$$\text{Average growth rate} = \frac{-2.11\% - 13.27\% + 4.99\% + 3.11\% + 32.63\% + 20.65\%}{6}$$

$$= 7.70\%$$

Growth Rate of Total Deposit of HBL

$$D1 = D_{2000/01} = 17637$$

$$D2 = D_{2001/02} = 18619$$

$$D3 = D_{2002/03} = 21007$$

$$D4 = D_{2003/04} = 22010$$

$$D5 = D_{2004/05} = 24814$$

$$D6 = D_{2005/06} = 26491$$

$$D7 = D_{2006/07} = 30048$$

NOW,

$$D2 = D1 (1+g)^n$$

$$D3 = D2 (1+g)^n$$

$$D4 = D3 (1+g)^n$$

$$18619 = 17637 (1+g)^1 \quad 21007 = 18619 (1+g)^1$$

$$22010 = 21007 (1+g)^1$$

$$\therefore g = 5.57\%$$

$$\therefore g = 12.83\%$$

$$\therefore g = 7.77\%$$

$$D5 = D4 (1+g)^n$$

$$D6 = D5 (1+g)^n$$

$$D7 = D6 (1+g)^n$$

$$24814 = 22010 (1+g)^1$$

$$26491 = 24814 (1+g)^1$$

$$30048 = 26491 (1+g)^1$$

$$\therefore g = 12.76\%$$

$$\therefore g = 9.76\%$$

$$\therefore g = 13.42\%$$

$$\text{Average growth rate} = \frac{5.57\% + 12.83\% + 7.77\% + 12.76\% + 9.76\% + 13.42\%}{6}$$

$$= 9.35\%$$

Appendix 20-B

Growth Rate of Lone & Advance of NABIL

D1=D _{2000/01} =8324	D2=D _{2001/02} =7802	D3=D _{2002/03} =8114	
D4=D _{2003/04} =8549	D5=D _{2004/05} =10947	D6=D _{2005/06} =13279	
D7= D _{2006/07} =15903			
NOW,			
D2=D1 (1+g) ⁿ		D3=D2(1+g) ⁿ	D4=D3(1+g) ⁿ
7802=8324 (1+g) ¹	8114=7802 (1+g) ¹	8549=8114 (1+g) ¹	
∴g=-5.57%		∴g=3.99%	∴g=5.36%
D5=D4(1+g) ⁿ		D6=D5(1+g) ⁿ	D7=D6(1+g) ⁿ
10947 =8549 (1+g) ¹		13279=10947 (1+g) ¹	15903=13279 (1+g) ¹
∴g=28.05%		∴g=21.30%	∴g=19.76%

$$\text{Average growth rate} = \frac{-5.57\% + 3.99\% + 5.36\% + 28.05\% + 21.30\% + 19.76\%}{6}$$

$$= 12.2\%$$

Growth Rate of Lone & Advance of HBL

D1=D _{2000/01} =9015	D2=D _{2001/02} =9557	D3=D _{2002/03} =10845	
D4=D _{2003/04} =12919	D5=D _{2004/05} =13451	D6=D _{2005/06} =15762	
D7= D _{2006/07} =17793			
NOW,			
D2=D1 (1+g) ⁿ		D3=D2(1+g) ⁿ	D4=D3(1+g) ⁿ
9557 =9015 (1+g) ¹		10845=9557 (1+g) ¹	12919=10845 (1+g) ¹
∴g=6.01%		∴g=13.48%	∴g=19.12%
D5=D4(1+g) ⁿ		D6=D5(1+g) ⁿ	D7=D6(1+g) ⁿ
13451=12919 (1+g) ¹		15762=13451 (1+g) ¹	17793=15762 (1+g) ¹
∴g=4.18%		∴g=17.18%	∴g=12.88%

$$\text{Average growth rate} = \frac{6.01\% + 13.48\% + 19.12\% + 4.18\% + 17.18\% + 12.88\%}{6}$$

$$= 12.15\%$$

Appendix 20-C

Growth Rate of Investment of NABIL

D1=D _{2000/01} =7704	D2=D _{2001/02} =8200	D3=D _{2002/03} =6031
D4=D _{2003/04} =5836	D5=D _{2004/05} =4270	D6=D _{2005/06} =6181
D7= D _{2006/07} =8945		
NOW,		
D2=D1 (1+g) ⁿ	D3=D2(1+g) ⁿ	D4=D3(1+g) ⁿ
8200 =7704 (1+g) ¹	6031 =8200 (1+g) ¹	5836=6031 (1+g) ¹
∴g=6.44%	∴g=-26.45%	∴g=-3.23%
D5=D4(1+g) ⁿ	D6=D5(1+g) ⁿ	D7=D6(1+g) ⁿ
4270 =5836 (1+g) ¹	6181=4270 (1+g) ¹	8945=6181 (1+g) ¹
∴g=-26.83%	∴g=44.75%	∴g=44.71%

$$\text{Average growth rate} = \frac{6.44\% - 26.45\% - 3.23\% - 26.83\% + 44.75\% + 44.71\%}{6} = 6.57\%$$

Growth Rate of Investment of HBL

D1=D _{2000/01} =4083	D2=D _{2001/02} =9157	D3=D _{2002/03} =10175
D4=D _{2003/04} =9292	D5=D _{2004/05} =11692	D6= D _{2005/06} =10889
D7= D _{2006/07} =11823		
NOW,		
D2=D1 (1+g) ⁿ	D3=D2(1+g) ⁿ	D4=D3(1+g) ⁿ
9157=4083 (1+g) ¹	10175=9157 (1+g) ¹	9292=10175 (1+g) ¹
∴g=124.27%	∴g=11.11%	∴g=-8.68%
D5=D4(1+g) ⁿ	D6=D5(1+g) ⁿ	D7=D6(1+g) ⁿ
11692 =9292 (1+g) ¹	10889=11692 (1+g) ¹	11823=10889 (1+g) ¹
∴g=25.83%	∴g=-6.87%	∴g=8.57%

$$\text{Average growth rate} = \frac{124.27\% + 11.11\% - 8.68\% + 25.83\% - 6.87\% + 8.57\%}{6} = 25.71\%$$

Appendix 20-D

Growth Rate of Net Profit of NABIL

D1=D_{2000/01}=291
 D4=D_{2003/04}=455
 D7= D_{2006/07}=674

D2=D_{2001/02}=271
 D5=D_{2004/05}=520

D3=D_{2002/03}=416
 D6= D_{2005/06}=635

NOW,
 D2=D1 (1+g)ⁿ
 271=291(1+g)¹
 ∴g=-6.87%

D3=D2(1+g)ⁿ
 416=271 (1+g)¹
 ∴g=53.50%

D4=D3(1+g)ⁿ
 455=416 (1+g)¹
 ∴g=9.38%

D5=D4(1+g)ⁿ
 520=455 (1+g)¹
 ∴g=14.29%

D6=D5(1+g)ⁿ
 635=520 (1+g)¹
 ∴g=22.12%

D7=D6(1+g)ⁿ
 674=635 (1+g)¹
 ∴g=6.14%

$$\text{Average growth rate} = \frac{-6.87\% + 53.50\% + 9.38\% + 14.29\% + 22.12\% + 6.14\%}{6} = 16.42\%$$

Growth Rate of Net Profit of HBL

D1=D_{2000/01}=277
 D4=D_{2003/04}=263
 D7= D_{2006/07}=492

D2=D_{2001/02}=235
 D5=D_{2004/05}=308

D3=D_{2002/03}=212
 D6= D_{2005/06}=457

NOW,
 D2=D1 (1+g)ⁿ
 235=277 (1+g)¹
 ∴g=-15.16%

D3=D2(1+g)ⁿ
 212=235 (1+g)¹
 ∴g=-9.79%

D4=D3(1+g)ⁿ
 263=212 (1+g)¹
 ∴g=24.06%

D5=D4(1+g)ⁿ
 308=263 (1+g)¹
 ∴g=17.11%

D6=D5(1+g)ⁿ
 457=308 (1+g)¹
 ∴g=48.38%

D7=D6(1+g)ⁿ
 492=457 (1+g)¹
 ∴g=7.65%

$$\text{Average growth rate} = \frac{-15.16\% - 9.79\% + 24.06\% + 17.11\% + 48.38\% + 7.65\%}{6} = 12.04\%$$

Appendix 21

Capital adequacy ratio

(Rs. in million)

Fiscal year		2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
N A B I L	Core capital	1112	1277	1439	1611	1831	1992
	supplementary capital	353	173	170	156	259	314
	Total capital	1464	1455	1609	1766	2089	2307
	Risk weighted assets	10564	11146	11872	14193	16976	19167
	CAR (core)	10.5251	11.4559	12.1248	11.3475	10.7844	10.3928
	CAR (Total)	13.8632	13.0552	13.5564	12.4432	12.3072	12.0392
H B L	Core capital	835	1039	1297	1526	1722	2104
	Supplementary capital	683	566	499	491	521	547
	Total capital	1473	1604	1796	2017	2243	2651
	Risk weighted assets	12746	14681	16861	18322	19918	21889
	CAR (core)	6.5475	7.0744	7.6948	8.3277	8.6450	9.612
	CAR (Total)	11.5562	10.9268	10.6533	11.0091	11.2602	12.1111

Appendix 22-A

Balance sheet of NABIL

(Rs. in million)

Fiscal year	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
<u>Capital liabilities</u>							
Share capital	492	492	492	492	492	492	492
Reserves Surplus	517	655	823	990	1166	1383	1565
Borrowings	***	417	961	230	17	173	883
Deposits	15839	15506	13448	14119	14587	19347	23342
Bills payable	70	68	109	173	120	93	84
Proposed & undisturbed dividend	***	***	***	***	***	435	509
Income tax liabilities	***	***	***	***	***	35	***
Other liabilities	798	492	730	741	805	372	378
Total	17770	17630	16563	16745	17187	22330	27253
<u>Assets</u>							
Cash & bank balance	813	1052	1145	970	559	630	1399
Money at call & short notice	522	31	670	919	868	1735	564
investments	7704	8200	6031	5836	4270	6181	8945
Lone, advance and bill purchased	7733	7438	7756	8190	10586	12923	15546
Fixed assets	248	238	252	338	361	318	287
Others assets	750	671	709	792	543	543	512
Total	1770	17630	16563	16745	17187	22330	27253

Common Size Balance sheet of NABIL**(in percentage)**

Fiscal year	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
<u>Capital liabilities</u>							
Share capital	2.8	2.8	3.0	2.9	2.9	2.2	1.8
Reserves Surplus	3.2	3.7	5.0	5.9	6.8	6.2	5.7
Borrowings	***	2.4	5.8	1.4	0.1	0.8	3.3
Deposits	89.1	88.0	81.2	84.3	84.9	86.6	85.6
Bills payable	0.4	0.4	0.7	1.0	0.7	0.5	0.3
Proposed & undisturbed dividend	***	***	***	***	***	1.9	1.9
Income tax liabilities	***	***	***	***	***	0.2	***
Other liabilities	4.5	2.8	4.4	4.4	4.7	1.6	1.4
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<u>Assets</u>							
Cash & bank balance	4.6	6.0	6.9	5.8	3.3	2.8	5.1
Money at call & short notice	2.9	0.2	4.0	5.5	5.1	7.8	2.1
investments	43.4	46.5	36.4	34.9	24.8	27.7	32.8
Lone, advance and bill purchased	43.5	42.2	46.8	48.9	61.6	57.9	57.1
Fixed assets	1.4	1.3	1.5	2.0	2.1	1.4	1.1
Others assets	4.2	3.8	4.3	2.9	3.2	2.4	1.8
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Balance sheet of HBL**(Rs. in million)**

Fiscal year	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
<u>Capital liabilities</u>							
Share capital	300	390	429	536	644	772	811
Reserves Surplus	421	468	634	788	898	994	1336
Borrowings	79	534	646	659	506	505	596
Deposits	17637	18619	21007	22010	24814	26491	30048
Bills payable	26	56	47	64	68	73	91
Proposed & undisturbed dividend	***	***	***	***	***	238	131
Income tax liabilities	***	***	***	***	***	***	12
Other liabilities	408	606	592	704	914	387	494
Total	18871	20673	23355	24761	27844	29460	33519
<u>Assets</u>							
Cash & bank balance	1435	1265	1979	2001	2014	1717	1757
Money at call & short notice	4058	352	1514	369	441	1005	1710
investments	4083	9157	10175	9292	11692	100889	11823
Lone, advance and bill purchased	8538	8914	10002	12021	12425	14643	16998
Fixed assets	202	319	230	230	296	541	574
Others assets	555	666	818	848	976	665	657
Total	18871	20673	23355	24761	27844	29460	33519

Balance sheet of HBL

(in percentage)

Fiscal year	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
Capital liabilities							
Share capital	1.6	1.9	1.8	2.2	2.3	2.6	2.4
Reserves Surplus	2.2	2.3	2.7	3.2	3.2	3.4	3.9
Borrowings	0.4	2.6	2.8	2.7	1.8	1.7	1.8
Deposits	93.5	90.1	89.9	88.9	89.1	89.9	89.6
Bills payable	0.1	0.3	0.2	0.3	0.2	0.2	0.27
Proposed & undisturbed dividend	***	***	***	***	***	0.8	0.4
Income tax liabilities	***	***	***	***	***	***	0.04
Other liabilities	2.2	2.9	2.5	2.8	3.3	2.3	1.59
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Assets							
Cash & bank balance	7.6	6.1	8.5	8.1	7.2	5.8	5.2
Money at call & short notice	21.5	1.7	0.6	1.5	1.6	3.4	5.1
investments	21.6	44.3	43.6	37.5	42.2	37.0	35.3
Lone, advance and bill purchased	45.2	43.1	42.8	48.5	44.6	49.7	50.7
Fixed assets	1.1	1.5	1.0	0.9	1.1	1.8	1.7
Others assets	2.9	3.2	3.5	3.4	3.5	2.3	2
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Appendix 22-B

Income statement of NABIL

(Rs. in million)

Fiscal year	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
Interest income	1267	1120	1018	1002	1068	1309	1587
Interest expenses	578	462	317	283	243	347	555
Net interest income	689	658	701	719	825	952	1032
Commission & Discount	97	114	144	136	139	138	151
Other operating income	***	***	87	93	72	83	87
Exchange income	160	154	144	157	185	185	210
Total operating income	946	926	1076	1105	1211	1358	1480
Employees Expenses	147	145	211	181	199	220	240
Other operating expenses	122	137	166	151	190	182	188
Exchange loss	***	***	***	***	***	***	***
Provision for possible losses	166	***	***	1	4	4	14
Operating profit	511	644	699	772	818	952	1038
Non operating income/loss	***	***	***	***	***	1	5
Provision for possible losses write back	***	-414	-52	-82	-31	8	11
Profit from regular activities	511	203	647	690	787	961	1054
Income/(expenses) from extra-ordinary activities	15	250	34	39	56	26	40
Profit from all activities	526	453	681	729	843	987	1094
Provision for staff Bonus	53	44	66	72	84	89	99
Provision for Income tax	182	138	199	202	239	263	321
Net profit / Loss	291	271	416	455	520	635	674

Common size income statement of NABIL**(In percentage)**

Fiscal year	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
Interest income	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Interest expenses	45.6	41.3	31.1	28.2	22.8	27.3	34.9
Net interest income	54.4	58.8	68.9	71.8	77.2	72.7	65.1
Commission& Discount	7.7	10.2	14.1	13.6	12.1	10.5	9.5
Other operating income	***	***	8.5	9.3	6.7	6.3	5.5
Exchange income	12.6	13.8	14.1	15.7	17.3	14.1	13.2
Total operating income	74.7	82.7	105.7	110.3	113.4	103.7	93.3
Employees Expenses	11.6	12.9	20.7	18.1	18.6	16.8	15.1
Other operating expenses	9.6	12.2	16.3	15.1	17.8	13.9	11.8
Exchange loss	***	***	***	***	***	***	***
Provision for possible losses	13.1	***	***	0.1	0.4	0.3	0.9
Operating profit	40.3	57.5	68.7	77.0	76.6	72.7	65.5
Nonoperating income/loss	***	***	***	***	***	0.1	0.3
Provision for possible losses write back	***	-39.4	-5.1	-8.2	-2.9	0.6	0.6
Profit from regular activities	40.3	18.1	63.6	68.9	73.7	73.4	66.4
Income/(expenses) from extra-ordinary activities	1.2	22.3	3.3	3.9	5.2	2.0	2.5
Profit from all activities	41.5	40.4	66.9	72.8	78.9	75.4	68.9
Provision for staff Bonus	4.2	3.9	6.5	7.2	7.9	6.8	6.2
Provision for Income tax	14.4	12.3	19.5	20.2	22.4	20.1	20.2
Net profit / Loss	23.0	24.2	40.9	45.4	48.7	48.5	42.5

Income statement of HBL

(Rs. in million)

Fiscal year	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
Interest income	1316	1149	1201	1246	1446	1626	1775
Interest expenses	734	578	554	492	562	649	767
Net interest income	592	571	647	754	774	977	1008
Commission& Discount	96	102	103	124	133	165	193
Other operating income	***	***	***	***	***	52	40
Exchange income	119	105	110	112	137	198	152
Total operating income	807	778	860	990	1154	1392	1393
Employees Expenses	86	101	120	153	179	234	272
Other operating expenses	141	156	177	211	277	329	342
Exchange loss	***	***	***	***	***	***	***
Provision for possible losses	134	166	203	186	147	145	90
Operating profit	446	355	360	440	551	684	689
Nonoperating income/loss	2	2	10	-7	12	1	3
Provision for possible losses write back	***	***	***	***	***	56	413
Profit from regular activities	448	357	370	433	539	741	1105
Income/(expenses) from extra-ordinary activities	31	32	30	34	41	-2	-315
Profit from all activities	479	389	400	467	580	738	790
Provision for staff Bonus	48	39	40	46	58	66	72
Provision for Income tax	154	115	148	158	214	215	226
Net profit / Loss	277	235	212	263	308	457	492

Common size income statement of HBL

(In percentage)

Fiscal year	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07
Interest income	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Interest expenses	55.4	50.3	46.1	39.5	38.9	39.9	43.2
Net interest income	44.6	49.7	53.9	60.5	61.1	60.1	56.8
Commission and Discount	7.2	8.9	8.6	10.0	9.2	10.2	10.8
Other operating income	***	***	***	***	***	3.2	2.3
Exchange income	9.0	9.1	9.2	9.0	9.5	12.2	8.5
Total operating income	60.9	67.7	71.6	79.5	79.8	85.6	78.4
Employees Expenses	6.5	8.8	10.0	12.3	12.4	14.3	15.3
Other operating expenses	10.6	13.6	14.7	16.9	19.2	20.2	19.2
Exchange loss	***	***	***	***	***	***	***
Provision for possible losses	10.1	14.4	16.9	14.9	10.2	8.9	5.1
Operating profit	33.6	30.9	30.0	35.3	38.1	42.2	38.8
Non operating income /loss	0.2	0.2	0.8	-0.6	-0.8	3.4	0.2
Provision for possible losses write back	***	***	***	***	***	***	23.2
Profit from regular activities	33.8	31.1	30.8	34.8	37.3	43.3	62.2
Income/ (expenses) from extra-ordinary activities	2.3	2.8	2.5	2.7	2.8	0.1	17.7
Profit from all activities	36.1	33.9	33.3	37.5	40.1	45.4	44.5
Provision for staff Bonus	3.6	3.4	3.3	3.7	4.0	4.1	4.1
Provision for Income tax	11.6	10.0	12.3	12.7	14.8	13.2	12.7
Net profit /Loss	20.9	20.5	17.7	21.1	21.3	28.1	27.7

Appendix 23 – A

Trend Values of Total Deposit of NABIL

(Rs in million)

Fiscal Year (t)	Total deposit (y)	x=t-2003/04	x ²	xy	y _c =a+bx
2000/01	15839	-3	9	-47517	13232
2001/02	15506	-2	4	-31012	14360
2002/03	13448	-1	1	-13448	15479
2003/04	14119	0	0	0	16598
2004/05	14587	1	1	14587	17717
2005/06	19347	2	4	38694	18836
2006/07	23342	3	9	70026	19954
	y=116188	x=0	x ² =28	xy=31330	

Here,

$$a = \frac{\sum y}{n} = \frac{116188}{7} = 16598$$

$$b = \frac{\sum xy}{\sum x^2} = \frac{31330}{28} = 1118.92$$

Trend Values of Total Deposit of HBL

(Rs in million)

Fiscal Year (t)	Total deposit (y)	x=t-2003/04	x ²	xy	y _c =a+bx
2000/01	17637	-3	9	-52911	16862
2001/02	18619	-2	4	-37238	18890
2002/03	21007	-1	1	-21007	20918
2003/04	22010	0	0	0	22946
2004/05	24814	1	1	24814	24974
2005/06	26491	2	4	52982	27002
2006/07	30048	3	9	90144	29030
	y=160626	x=0	x ² =28	xy=56784	

Here,

$$a = \frac{\sum y}{n} = \frac{160626}{7} = 22946$$

$$b = \frac{\sum xy}{\sum x^2} = \frac{56784}{28} = 2028$$

Appendix 23 – B

Trend Values of Lone & Advances of NABIL

(Rs in million)

Fiscal Year (t)	Lone & Advances (y)	x=t-2003/04	x ²	xy	y _c =a+bx
2000/01	8324	-3	9	-24972	7520
2001/02	7802	-2	4	-15602	8485
2002/03	8114	-1	1	-8114	9450
2003/04	8549	0	0	0	10416
2004/05	10947	1	1	8549	11382
2005/06	13279	2	4	21894	12347
2006/07	15903	3	9	45279	13313
	y=72918	x=0	x ² =28	xy=27034	

Here,

$$a = \frac{\sum y}{n} = \frac{72918}{7} = 10416.85$$

$$b = \frac{\sum xy}{\sum x^2} = \frac{27034}{28} = 965.5$$

Trend Values of Lone & Advances of HBL

(Rs in million)

Fiscal Year (t)	Lone & Advances (y)	x=t-2003/04	x ²	xy	y _c =a+bx
2000/01	9015	-3	9	27045	8332
2001/02	9557	-2	4	19114	9809
2002/03	10845	-1	1	10845	11286
2003/04	12919	0	0	0	12763
2004/05	13451	1	1	13451	14239
2005/06	15762	2	4	31524	15716
2006/07	17793	3	9	53379	17193
	y=89345	x=0	x ² =28	xy=41350	

Here,

$$a = \frac{\sum y}{n} = \frac{89345}{7} = 12763$$

$$b = \frac{\sum xy}{\sum x^2} = \frac{41350}{28} = 1476.78$$

Appendix 23 – C

Trend Values of Investment of NABIL

(Rs in million)

Fiscal Year (t)	Investment (y)	x=t-2003/04	x ²	xy	y _c =a+bx
2000/01	7704	-3	9	-23112	6961
2001/02	8200	-2	4	-16400	6886
2002/03	6031	-1	1	-6031	6812
2003/04	5836	0	0	0	6738
2004/05	4270	1	1	4270	6664
2005/06	6181	2	4	12362	6589
2006/07	8945	3	9	26835	6515
	y=47167	x=0	x ² =28	xy=-2076	

Here,

$$a = \frac{\sum y}{n} = \frac{7167}{74} = 6738$$

$$b = \frac{\sum xy}{\sum x^2} = \frac{-2076}{28} = -74.14$$

Trend Values of Investment of HBL

(Rs in million)

Fiscal Year (t)	Investment (y)	x=t-2003/04	x ²	xy	y _c =a+bx
2000/01	4083	-3	9	12249	6566
2001/02	9157	-2	4	18314	7573
2002/03	10175	-1	1	10175	8580
2003/04	9292	0	0	0	9587
2004/05	11692	1	1	11692	10594
2005/06	10889	2	4	21778	11601
2006/07	11823	3	9	35469	12608
	y=67111	x=0	x ² =28	xy=28201	

Here,

$$a = \frac{\sum y}{n} = \frac{67111}{7} = 9587$$

$$b = \frac{\sum xy}{\sum x^2} = \frac{28201}{28} = 1007$$

Appendix 23 – D

Trend Values of Net Profit of NABIL

(Rs in million)

Fiscal Year (t)	Net Profit (y)	x=t-2003/04	x ²	xy	y _c =a+bx
2000/01	291	-3	9	-873	253
2001/02	271	-2	4	-542	324
2002/03	416	-1	1	-416	395
2003/04	455	0	0	0	466
2004/05	520	1	1	520	536
2005/06	635	2	4	1270	607
2006/07	674	3	9	2022	678
	y=3262	x=0	x ² =28	xy=1981	

Here,

$$a = \frac{\sum y}{n} = \frac{3262}{7} = 466$$

$$b = \frac{\sum xy}{\sum x^2} = \frac{1981}{28} = 70.75$$

Trend Values of Net Profit of HBL

(Rs in million)

Fiscal Year (t)	Net Profit (y)	x=t-2003/04	x ²	xy	y _c =a+bx
2000/01	277	-3	9	-831	194
2001/02	235	-2	4	-470	236
2002/03	212	-1	1	-212	278
2003/04	263	0	0	0	320
2004/05	308	1	1	308	362
2005/06	457	2	4	914	404
2006/07	492	3	9	1476	446
	y=2244	x=0	x ² =28	xy=1185	

Here,

$$a = \frac{\sum y}{n} = \frac{2244}{7} = 320$$

$$b = \frac{\sum xy}{\sum x^2} = \frac{1185}{28} = 42.32$$

Appendix 24 – A

Coefficient of correlation between deposit and loan & advances of NABIL

(Rs. In million)

Fiscal Year(t)	Deposit (x)	Loan & Advance (y)	X= x - \bar{x}	Y=y- \bar{y}	x ²	y ²	xy
2000/01	15839	8324	-759	-2092	576081	4380051	1587828
2001/02	15506	7802	-1092	-2614	1192464	6837477	2854488
2002/03	13448	8114	-3150	-2302	9922500	5303151	7251300
2003/04	14119	8549	-2479	-1867	6145441	3488890	4628293
2004/05	14587	10947	-2011	530	4044121	281051	-1065830
2005/06	19347	13279	2749	2862	45549001	8191861	786738
2006/07	23342	15903	6744	5486	45481536	20097763	36997584
	x=116188	y=72918	0	0	x ² =11291144	y ² =58580244	xy=60121301

Here,

$$\bar{x} = \frac{\sum x}{n} = \frac{116188}{7} = 16598$$

$$\bar{y} = \frac{\sum y}{n} = \frac{72918}{7} = 10417$$

$$x^2=11291144$$

$$y^2=58580244$$

$$xy=60101301$$

Now,

$$r = \frac{\sum xy}{\sqrt{\sum x^2} \cdot \sqrt{\sum y^2}}$$

$$r = \frac{60101301}{\sqrt{11291144} \times \sqrt{58580244}}$$

$$r = 0.7391$$

$$r^2 = 0.5463$$

Probable error (P.Er),

$$P.Er = 0.6745 \times \frac{1-r^2}{\sqrt{n}}$$

$$P.Er = 0.6745 \times \frac{1-0.5463}{\sqrt{7}}$$

$$P.Er = 0.1156$$

Coefficient of correlation between deposit and loan & advances of HBL

(Rs. In million)

Fiscal Year(t)	Deposit (x)	Loan & Advance (y)	$x - \bar{x}$	$Y = y - \bar{y}$	x^2	y^2	xy
2000/01	17637	9015	-5309	-3748	28191548	14047504	19898132
2001/02	18619	9557	-4327	-3206	18722787	10278436	13872362
2002/03	21007	10845	-1939	-1918	3761937	3678724	3719002
2003/04	22010	12919	-936	156	877166	24336	-46016
2004/05	24814	13451	1867	688	3487289	473344	1284496
2005/06	26491	15762	3544	2999	12562973	8994001	10628456
2006/07	30048	17793	7101	5030	50430287	25300900	35718030
	$\Sigma x = 160626$	$\Sigma y = 89342$	0	0	$\Sigma x^2 = 118033987$	$\Sigma y^2 = 62797245$	$\Sigma xy = 84974462$

Here,

$$\bar{x} = \frac{\Sigma x}{n} = \frac{160626}{7} = 22946$$

$$\bar{y} = \frac{\Sigma y}{n} = \frac{89341}{7} = 12763$$

$$x^2 = 118033987$$

$$y^2 = 62797245$$

$$xy = 84974462$$

Now,

$$r = \frac{\Sigma xy}{\sqrt{\Sigma x^2} \cdot \sqrt{\Sigma y^2}}$$

$$r = \frac{84974462}{\sqrt{118033987} \times \sqrt{62797245}}$$

$$r = 0.9869$$

$$r^2 = 0.9741$$

Probable error (P.Er),

$$P.Er = 0.6745 \times \frac{1 - r^2}{\sqrt{n}}$$

$$P.Er = 0.6745 \times \frac{1 - 0.9741}{\sqrt{7}}$$

$$P.Er = 0.0061$$

Appendix 24 – B

Coefficient of correlation between deposit and Investment of NABIL

(Rs. In million)

Fiscal Year(t)	Deposit (x)	Investment (y)	$\bar{x} = x - \bar{x}$	$\bar{y} = y - \bar{y}$	x^2	y^2	xy
2000/01	15839	7704	-759	965	576081	932880	-732435
2001/02	15506	8200	-1092	1461	1192464	2137026	-1595412
2002/03	13448	6031	-3150	-707	9922500	500051	2227050
2003/04	14119	5836	-2479	-902	6145441	813861	2236058
2004/05	14587	4270	-2011	-2468	4044121	6091729	4963148
2005/06	19347	6161	2749	-557	45549001	310408	-1531193
2006/07	23342	8945	6744	2206	45481536	4870218	14877264
	$\Sigma x = 116188$	$\Sigma y = 47167$	0	0	$\Sigma x^2 = 11291144$	$\Sigma y^2 = 15656173$	$\Sigma xy = 20444480$

Here,

$$\bar{x} = \frac{\Sigma x}{n} = \frac{116188}{7} = 16598$$

$$\bar{y} = \frac{\Sigma y}{n} = \frac{447167}{7} = 6738$$

$$x^2 = 11291144$$

$$y^2 = 15656173$$

$$xy = 20444480$$

Now,

$$r = \frac{\Sigma xy}{\sqrt{\Sigma x^2} \cdot \sqrt{\Sigma y^2}}$$

$$r = \frac{20444480}{\sqrt{11291144} \times \sqrt{15656173}}$$

$$r = 0.4862$$

$$r^2 = 0.2363$$

Probable error (P.Er),

$$P.Er = 0.6745 \times \frac{1-r^2}{\sqrt{n}}$$

$$P.Er = 0.6745 \times \frac{1-0.2363}{\sqrt{7}}$$

$$P.Er = 0.1946$$

Coefficient of correlation between deposit and Investment of HBL

(Rs. In million)

Fiscal Year(t)	Deposit (x)	Loan & Advance(y)	X=x - \bar{x}	Y=y- \bar{y}	x ²	y ²	xy
2000/01	17637	4083	-5309	-5504	28191548	30297161	29220736
2001/02	18619	9157	-4327	-430	18722787	184900	1860610
2002/03	21007	10175	-1939	588	3761937	345744	-1140132
2003/04	22010	9292	-936	-298	877166	87025	276120
2004/05	24814	11692	1867	2105	3487289	4431025	3930035
2005/06	26491	10889	3544	1302	12562973	1695204	460908
2006/07	30048	11823	7101	2236	50430287	4999696	15877836
	x=160626	y=67111	0	0	x ² =118033987	y ² =42040755	xy=50486443

Here,

$$\bar{x} = \frac{\sum x}{n} = \frac{160626}{7} = 22946$$

$$\bar{y} = \frac{\sum y}{n} = \frac{67111}{7} = 9587$$

$$x^2 = 118033987$$

$$y^2 = 42040755$$

$$xy = 50486443$$

Now,

$$r = \frac{\sum xy}{\sqrt{\sum x^2} \cdot \sqrt{\sum y^2}}$$

$$r = \frac{50486443}{\sqrt{118033987} \times \sqrt{42040755}}$$

$$r = 0.7167$$

$$r^2 = 0.5136$$

Probable error (P.Er),

$$P.Er = 0.6745 \times \frac{1-r^2}{\sqrt{n}}$$

$$P.Er = 0.6745 \times \frac{1-r^2}{\sqrt{7}}$$

$$P.Er = 0.124$$

Appendix 24 – C

Coefficient of correlation between deposit and Net Profit of NABIL

(Rs. In million)

Fiscal Year(t)	Deposit (x)	Net Profit (y)	X= x - \bar{x}	Y= y - \bar{y}	x ²	y ²	xy
2000/01	15839	329	-759	-175	576081	30625	132825
2001/02	15506	291	-1092	-195	1192464	38025	212940
2002/03	13448	271	-3150	-50	9922500	2500	157500
2003/04	14119	416	-2479	-11	6145441	121	27269
2004/05	14587	520	-2011	54	4044121	2916	-108594
2005/06	19347	653	2749	169	45549001	28561	464581
2006/07	23342	674	6744	208	45481536	43264	1402752
	x=116 188	y=3262	0	0	x ² = 11291144	y ² = 146012	xy= 2289273

Here,

$$\bar{x} = \frac{\sum x}{n} = \frac{116188}{7} = 16598$$

$$\bar{y} = \frac{\sum y}{n} = \frac{3262}{7} = 466$$

$$x^2 = 11291144$$

$$y^2 = 146012$$

$$xy = 2289273$$

Now,

$$r = \frac{\sum xy}{\sqrt{\sum x^2} \cdot \sqrt{\sum y^2}}$$

$$r = \frac{2289273}{\sqrt{11291144 \times 146012}}$$

$$r = 0.5637$$

$$r^2 = 0.3178$$

Probable error (P.Er),

$$P.Er = 0.6745 \times \frac{1-r^2}{\sqrt{n}}$$

$$P.Er = 0.6745 \times \frac{1-0.3178}{\sqrt{7}}$$

$$P.Er = 0.1732$$

Coefficient of correlation between deposit and Net Profit of HBL

(Rs. In million)

Fiscal Year(t)	Deposit (x)	Net Profit (y)	X= x - \bar{x}	Y= y - \bar{y}	x ²	y ²	xy
2000/01	17637	277	-5309	-43	28191548	1849	228287
2001/02	18619	235	-4327	-85	18722787	7225	367795
2002/03	21007	212	-1939	-108	3761937	11664	209412
2003/04	22010	263	-936	-57	877166	3249	53352
2004/05	24814	308	1867	-12	3487289	144	-22404
2005/06	26491	457	3544	137	12562973	18769	485528
2006/07	30048	492	7101	172	50430287	29584	1221372
	x=160626	y=2244	x=0	xy=	x ² = 11803398 7	y ² = 72484	xy= 2543342

Here,

$$\bar{x} = \frac{\sum x}{n} = \frac{160626}{7} = 22946$$

$$\bar{y} = \frac{\sum y}{n} = \frac{2244}{7} = 320$$

$$x^2 = 118033987$$

$$y^2 = 72484$$

$$xy = 2543342$$

Now,

$$r = \frac{\sum xy}{\sqrt{\sum x^2} \cdot \sqrt{\sum y^2}}$$

$$r = \frac{2543342}{\sqrt{118033987} \times \sqrt{72484}}$$

$$r = 0.8695$$

$$r^2 = 0.7560$$

Probable error (P.Er),

$$P.Er = 0.6745 \times \frac{1 - r^2}{\sqrt{n}}$$

$$P.Er = 0.6745 \times \frac{1 - 0.7560}{\sqrt{7}}$$

$$P.Er = 0.062$$

