

APPENDIX VII TABLE NO : 1

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : All Commercial Banks

Fixed Factors of Production :

Z1 = Total Number of Branches

Z2 = Fixed Assets Per Branch

Independent Variable & Basic Stat.		Estimated Profit Functions [Complete Models]							
		1		2		3		4	
Equation No		1		2		3		4	
Intercept		-11.537[1.43]		-8.747[0.32]		-13.181[1.45]		1.216[0.01]	
[P ₁]									
P1		- 1.037[0.69]		-1.343[0.55]		- 2.303[1.16]		-1.546[0.40]	
P2		0.229[0.83]		0.253[0.72]		0.326[1.06]		0.386[0.80]	
P3		- 0.468[0.53]		-0.469[0.46]		- 0.498[0.46]		-0.168[0.08]	
[Q _j]									
Q1		- 0.172[0.54]		-0.135[0.35]		- 0.22[0.64]		0.344[0.61]	
Q2		1.977[0.93]		2.045[0.79]		2.584[1.13]		2.093[0.57]	
Q3		0.865[1.70]		0.917[1.11]		1.408[1.71]		1.595[1.33]	
[Z _k]									
Z1		1.622[2.95]		1.613[1.42]		2.305[2.61]		2.038[0.94]	
Z2		1.026[1.18]		0.902[0.83]		0.984[1.04]		0.876[0.55]	
Z3									
[R ₁]									
R1				-0.67[0.14]				-1.899[0.16]	
R2				0.113[0.30]				-0.055[0.09]	
[S _m]									
S1						- 2.17[1.05]		-2.249[0.69]	
S2						0.8[0.428]		-0.224[0.04]	
Statistics									
R ²		0.993		0.993		0.994		0.994	
R ²		0.986		0.982		0.985		0.978	
D-W		2.40		2.46		2.74		2.85	

APPENDIX VII TABLE NO :2

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : State Bank of India

Fixed Factors of Production :

Z1 = Total Number of Branches

Z2 = Fixed Assets per Branch

Independent Variable & Basic Stat.		Estimated Profit Functions [Complete Models]							
		p=f[P ₁ ,Q _j ,Z _k]		p=f[P ₁ ,Q _j ,Z _k ,R ₁]		p=f[P ₁ ,Q _j ,Z _k ,S _m]		p=f[P ₁ ,Q _j ,Z _k ,R ₁ ,S _m]	
Equation No		1	2	3	4				
Intercept		-24.696[0.75]	-22.717[0.45]	-44.794[0.99]	-73.084[1.90]				
[P ₁]									
P1		- 1.341[0.16]	-9.988[1.41]	-4.233[0.46]	-20.722[3.60]				
P2		- 0.011[0.01]	0.092[0.10]	-0.752[0.51]	0.532[0.70]				
P3		- 0.103[0.81]	-0.079[0.83]	-0.076[0.55]	- 0.071[1.10]				
[Q _j]									
Q1		0.106[0.14]	1.141[1.48]	0.738[0.81]	1.661[3.12]				
Q2		- 1.119[0.24]	-1.581[0.46]	2.911[0.48]	- 8.664[2.20]				
Q3		2.120[0.58]	-1.478[0.40]	2.209[0.51]	-13.187[2.98]				
[Z _k]									
Z1		4.017[0.82]	9.961[1.93]	3.094[0.60]	26.109[4.20]				
Z2		- 0.863[0.52]	-3.744[2.29]	-1.067[0.62]	- 6.499[4.63]				
Z3									
[R ₁]									
R1			-9.125[1.35]		-12.695[2.77]				
R2			2.147[2.85]		5.387[4.63]				
[S _m]									
S1				1.694[0.25]	4.745[1.47]				
S2				4.957[1.23]	-12.791[2.93]				
Statistics									
$\bar{R}^2$		0.911	0.963	0.929	0.989				
$\bar{R}^2$		0.823	0.901	0.812	0.958				
D-W		2.84	2.72	3.10	3.30				

APPENDIX VII TABLE NO : 3

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : Nationalised Banks

Fixed Factors of Production :

Z1 = Total Number of Branches

Z2 = Fixed Assets Per Branch

Independent Variable & Basic Stat.	Estimated Profit Functions [Complete Model]			
	$p=f[P_i, Q_j, Z_k]$	$p=f[P_i, Q_j, Z_k, R_l]$	$p=f[P_i, Q_j, Z_k, S_m]$	$p=f[P_i, Q_j, Z_k, R_l, S_m]$
Equation No	1	2	3	4
Intercept	-4.127[0.69]	-4.839[0.22]	-4.503[0.63]	-3.936[0.11]
[P _i]				
P1	-0.739[0.86]	-0.327[0.34]	-0.594[0.59]	-0.309[0.26]
P2	0.441[1.53]	0.472[1.53]	0.496[1.46]	0.478[1.24]
P3	0.087[0.10]	0.188[0.22]	0.132[0.14]	0.32[0.30]
[Q _j]				
Q1	-0.099[0.35]	0.101[0.31]	-0.057[0.17]	0.158[0.38]
Q2	0.052[0.03]	-0.503[0.32]	-0.229[0.13]	-0.456[0.24]
Q3	0.854[1.66]	0.765[0.86]	0.689[1.06]	0.979[0.81]
[Z _k]				
Z1	1.335[2.49]	1.413[1.48]	1.095[1.41]	1.351[1.04]
Z2	0.486[0.66]	0.34[0.43]	0.442[0.51]	0.105[0.09]
Z3				
[R _l]				
R1		0.191[0.04]		-1.176[0.20]
R2		-0.248[0.68]		-0.179[0.36]
[S _m]				
S1			0.947[0.58]	-0.321[0.15]
S2			-0.062[0.06]	-0.565[0.40]
Statistics				
R^2				
R	0.987	0.990	0.988	0.991
$\bar{R}^2$				
R	0.974	0.974	0.968	0.963
D-W	2.33	2.59	2.26	2.64

APPENDIX VII TABLE NO : 4

REGRESSION RESULTS : PROFIT FUNCTIONS

Cross-Sectional Data
[Average of Three Years; 1985-87]

Bank Group : Public Sector Bank [28]
Fixed Factors of Production :

Z1 = Total Number of Branches
Z2 = Fixed Assets Per Branch

Independent Variable & Basic Stat.	Estimated Profit Functions [Complete Model]			
	p=f[P ₁ ,Q _j ,Z _k] p=f[P ₁ ,Q _j ,Z _k ,R _l] p=f[P ₁ ,Q _j ,Z _k ,S _m] p=f[P ₁ ,Q _j ,Z _k ,R _l ,S _m]			
Equation No.	1	2	3	4
Intercept	-2.023[0.32]	0.386[0.05]	-1.862[0.26]	-0.027[0.00]
[P ₁]				
P1	-0.433[0.37]	0.176[0.12]	-0.452[0.37]	0.187[0.12]
P2				
P3	-0.049[0.04]	-0.266[0.22]	-0.031[0.02]	-0.298[0.23]
[Q _j]				
Q1				
Q2	-1.674[1.15]	-0.902[0.53]	-1.696[1.11]	-0.834[0.44]
Q3				
[Z _k]				
Z1	1.154[9.82]	1.143[8.64]	1.156[9.35]	1.142[8.40]
Z2	0.938[4.08]	1.018[3.72]	0.937[3.96]	1.018[3.62]
Z3				
[R _l]				
R1		-0.259[1.04]		-0.268[0.98]
R2		-0.021[0.10]		-1.412[1.28]
R3		-0.424[1.34]		-0.027[0.12]
[S _m]				
S1			-0.016[0.06]	0.026[0.09]
S2				
Statistics				
R ²	0.912	0.925	0.912	0.925
$\bar{R}^2$	0.892	0.893	0.887	0.888
D-W	2.47	2.45	2.41	2.44

APPENDIX VII TABLE NO : 5

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : All Commercial Banks

Fixed Factors of Production :

Z1 = Total Number of Branches

Z3 = Total Deposits per Branch

Independent Variable & Basic Stat.	Estimated Profit Functions [Complete Models]			
	p=f[P _i ,Q _j ,Z _k] p=f[P _i ,Q _j ,Z _k ,R _l] p=f[P _i ,Q _j ,Z _k ,S _m] p=f[P _i ,Q _j ,Z _k ,R _l ,S _m]			
Equation No	1	2	3	4
Intercept	-13.339[2.88]	-64.89[6.11]	-13.778[4.34]	57.615[2.78]
[P _i]				
P1	- 1.361[1.33]	- 4.084[5.32]	- 1.989[2.27]	- 3.575[3.24]
P2	0.111[0.60]	- 0.287[2.36]	- 0.092[0.57]	- 0.32[1.91]
P3	- 1.149[2.14]	- 1.684[5.87]	- 1.125[2.96]	- 1.658[3.71]
[Q _j]				
Q1	0.257[1.41]	0.533[5.06]	0.172[1.30]	0.494[2.40]
Q2	2.707[2.07]	5.22[6.37]	4.052[4.12]	5.179[5.27]
Q3	0.878[3.02]	- 0.366[1.29]	- 0.187[0.00]	- 0.577[1.21]
[Z _k]				
Z1	0.266[0.55]	1.334[4.16]	0.404[0.79]	1.00[2.07]
Z2				
Z3	2.65[3.48]	4.34[8.38]	3.547[5.46]	4.469[6.80]
[R _l]				
R1		8.33[4.74]		7.146[2.22]
R2		- 0.33[2.71]		- 0.287[1.99]
[S _m]				
S1			1.105[1.01]	0.834[0.91]
S2			- 2.789[2.78]	- 0.961[0.77]
Statistics				
$\bar{R}^2$	0.997	0.999	0.999	0.999
$\bar{R}^2$	0.993	0.998	0.997	0.998
D-W	2.70	2.55	3.09	2.67

APPENDIX VII TABLE NO : 6

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : State Bank of India

Fixed Factors of Production :

Z1 = Total Number of Branches

Z3 = Total Deposits per Branch

Independent Variable & Basic Stat.	Estimated Profit Functions [Complete models]			
	p=f[P ₁ ,Q _j ,Z _k] p=f[P ₁ ,Q _j ,Z _k ,R ₁] p=f[P ₁ ,Q _j ,Z _k ,S _m] p=f[P ₁ ,Q _j ,Z _k ,R ₁ ,S _m]			
Equation No:	1	2	3	4
Intercept	-2.825[0.07]	-113.393[1.51]	-30.252[0.59]	-237.652[2.95]
[P ₁]				
P1	5.351[0.82]	- 14.094[1.38]	0.355[0.04]	- 30.822[2.85]
P2	0.304[0.31]	0.421[0.46]	- 0.466[0.32]	2.077[1.76]
P3	-0.017[0.13]	- 0.095[0.86]	- 0.025[0.17]	- 0.166[1.64]
[Q _j]				
Q1	0.075[0.10]	1.276[1.45]	0.572[0.65]	1.934[2.56]
Q2	-2.763[0.68]	- 5.689[1.58]	1.401[0.22]	- 20.697[2.79]
Q3	1.143[0.30]	- 5.744[1.27]	1.655[0.34]	- 21.021[2.79]
[Z _k]				
Z1	-0.688[0.11]	24.867[2.04]	- 0.978[0.13]	- 59.928[3.33]
Z2				
Z3	1.273[0.54]	- 7.589[1.85]	- 0.052[0.01]	- 15.877[3.23]
[R ₁]				
R1		- 4.725[0.71]		- 6.288[1.18]
R2		3.527[2.45]		8.813[3.46]
[S _m]				
S1			1.863[0.26]	- 1.106[0.25]
S2			4.760[1.00]	- 15.18[2.33]
Statistics				
R ²				
R	0.911	0.956	0.925	0.981
$\bar{R}^2$				
R	0.823	0.882	0.800	0.925
D-W	2.94	2.97	3.09	3.34

APPENDIX VII TABLE NO : 7

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : Nationalised Banks

Fixed Factors of Production :

Z1 = Total Number of Branches

Z3 = Total Deposits per Branch

Independent Variable & Basic Stat.	Estimated Profit Functions [Complete models]			
	$p=f[P_i, Q_j, Z_k]$	$p=f[P_i, Q_j, Z_k, R_l]$	$p=f[P_i, Q_j, Z_k, S_m]$	$p=f[P_i, Q_j, Z_k, R_l, S_m]$
Equation No:	1	2	3	4
Intercept	-4.802[0.89]	-9.516[0.45]	-6.002[0.96]	-5.852[0.18]
[P _i]				
P1	-0.914[1.15]	-0.435[0.50]	-0.708[0.78]	-0.374[0.34]
P2	0.366[1.32]	0.372[1.25]	0.404[1.30]	0.378[1.04]
P3	-0.133[0.18]	-0.081[0.10]	-0.221[0.27]	-0.07[0.07]
[Q _j]				
Q1	0.109[0.35]	0.273[0.83]	0.185[0.53]	0.276[0.69]
Q2	0.514[0.36]	-0.064[0.04]	0.349[0.22]	-0.028[0.01]
Q3	0.933[1.87]	0.714[0.86]	0.728[1.21]	0.757[0.66]
[Z _k]				
Z1	0.732[0.96]	1.00[1.06]	0.311[0.30]	0.925[0.68]
Z2				
Z3	0.994[1.12]	0.906[0.95]	1.126[1.44]	0.833[0.62]
[R _l]				
R1		0.904[0.23]		0.264[0.05]
R2		-0.298[0.85]		-0.244[0.53]
[S _m]				
S1			1.296[0.85]	0.187[0.08]
S2			-0.059[0.06]	-0.299[0.23]
Statistics				
R ²				
R	0.988	0.991	0.990	0.991
$\bar{R}^2$				
R	0.977	0.977	0.972	0.966
D-W	2.27	2.57	2.23	2.51

APPENDIX VII TABLE NO : 8

REGRESSION RESULTS : PROFIT FUNCTIONS

Cross-Sectional Data
[Average of Three years; 1985-87]

Bank Group : Public Sector Banks[28]
Fixed Factors of Production :

Z1 = Total Number of Branches

Z3 = Total Deposits Per Branch

Independent Variable & Basic Stat.	Estimated Profit Functions [Complete models]			
	$p=f[P_i, Q_j, Z_k]$	$p=f[P_i, Q_j, Z_k, R_l]$	$p=f[P_i, Q_j, Z_k, S_m]$	$p=f[P_i, Q_j, Z_k, R_l, S_m]$
Equation No	1	2	3	4
Intercept	-8.775[1.31]	-9.536[1.42]	-6.425[0.84]	-9.038[1.11]
[P _i]				
P1	-0.515[0.38]	-1.413[0.94]	-0.766[0.55]	-1.427[0.92]
P2	-0.754[0.56]	-0.922[0.73]	-0.473[0.33]	-0.876[0.65]
P3				
[Q _j]				
Q1				
Q2	0.811[0.54]	2.194[1.30]	0.484[0.30]	2.104[1.11]
Q3				
[Z _k]				
Z1	1.158[7.94]	1.176[8.23]	1.169[7.87]	1.177[8.01]
Z2				
Z3	1.076[2.71]	1.158[3.00]	1.101[2.72]	1.162[2.93]
[R _l]				
		-0.567[2.13]		-0.555[1.90]
R1		-0.246[0.23]		-0.265[0.24]
R2		-0.013[0.05]		-0.006[0.02]
[S _m]				
S1			-0.202[0.68]	-0.035[0.11]
S2				
Statistics				
R^2				
R	0.884	0.912	0.806	0.912
R^2				
R	0.858	0.875	0.854	0.868
D-W	2.09	1.82	2.15	1.84

APPENDIX VII TABLE NO : 9

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : All Commercial Banks

Fixed Factors of Production :

Z1 = Total Number of Branches

Z2 = Fixed Assests per Branch

Independent!	Estimated Profit Functions [Best Fit]			
Variable & +				
Basic Stat.!	p=f[P _i ,Q _j ,Z _k]p=f[P _i ,Q _j ,Z _k ,R ₁]p=f[P _i ,Q _j ,Z _k ,S _m]p=f[P _i ,Q _j ,Z _k ,R ₁ ,S _m]			
Equation No!	1	2	3	4
Intercept	-15.228[2.40]	-16.717[2.34]	-16.043[2.43]	-21.237[2.82]
[P _i]				
P1	- 1.956[1.64]	- 2.520[1.55]	-2.881[1.60]	- 2.209[1.07]
P2				
P3	- 0.642[0.89]	- 0.667[0.89]	-0.552[0.73]	- 1.105[1.36]
[Q _j]				
Q1				
Q2	3.154[2.98]	3.486[2.77]	3.682[2.79]	3.424[2.23]
Q3	0.995[2.59]	0.892[2.02]	1.212[2.42]	
[Z _k]				
Z1	1.826[3.68]	1.921[3.31]	2.285[2.76]	1.961[2.10]
Z2	1.034[1.74]	0.996[1.60]	0.956[1.53]	1.281[1.87]
Z3				
[R ₁]				
R1				
R2		0.111[0.53]		0.316[1.47]
[S _m]				
S1			-0.964[0.70]	1.273[1.01]
S2				
Statistics				
²				
R	0.992	0.992	0.993	0.990
₂				
R	0.987	0.987	0.987	0.982
D-W	2.21	2.35	2.39	2.05

APPENDIX VII TABLE NO : 10

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : State Bank of India

Fixed Factors of Production :

Z1 = Total Number of Branches

Z2 = Fixed Deposites per Branch

Independent Variable & Basic Stat.	Estimated Profit Functions [Best Fit]			
	$p=f[P_1, Q_j, Z_k]$	$p=f[P_1, Q_j, Z_k, R_1]$	$p=f[P_1, Q_j, Z_k, S_m]$	$p=f[P_1, Q_j, Z_k, R_1, S_m]$
Equation No.	1	2	3	4
Intercept	-25.419[1.30]	-13.655[0.50]	-25.295[1.36]	-13.420[0.46]
[P ₁]				
P1	- 2.540[0.43]	-11.224[2.23]	-1.458[0.26]	-11.682[1.90]
P2				
P3	- 0.107[0.96]	- 0.103[1.52]	-0.076[0.70]	- 0.109[1.32]
[Q _j]				
Q1	0.066[0.10]	1.023[1.76]	0.547[0.79]	1.021[1.66]
Q2				
Q3	2.551[0.79]		0.533[1.37]	
[Z _k]				
Z1	3.983[1.21]	9.166[3.14]	1.765[0.50]	9.476[2.56]
Z2	- 1.051[0.81]	- 4.129[3.21]	-0.760[0.61]	- 4.263[2.62]
Z3				
[R ₁]				
R1		-10.421[2.80]		-10.638[2.00]
R2		1.970[3.64]		2.015[3.12]
[S _m]				
S1				
S2			4.092[1.44]	- 0.363[0.15]
Statistics				
R ²	0.909	0.960	0.926	0.960
$\bar{R}^2$	0.855	0.929	0.869	0.920
D-W	2.74	2.86	3.14	2.87

APPENDIX VII TABLE NO : 11

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : Nationalised Banks

Fixed Factors of Production :

Z1 = Total Number of Branches

Z2 = Fixed Assets Per Branch

Independent Variable & Basic Stat.	Estimated Profit Functions [Best Fit]			
Equation No	1	2	3	4
Intercept	-7.513[1.34]	-6.763[1.22]	-6.910[1.09]	-5.748[0.91]
[P ₁]				
P1	-0.759[0.95]	-0.260[0.29]	-0.709[0.83]	-0.158[0.16]
P2				
P3	-0.504[0.67]	-0.473[0.64]	-0.454[0.56]	-0.390[0.49]
[Q _j]				
Q1				
Q2	1.517[1.47]	1.304[1.26]	1.465[1.32]	1.208[1.09]
Q3	1.100[2.27]	0.995[2.06]	1.060[1.99]	0.925[1.73]
[Z _k]				
Z1	1.230[2.40]	1.164[2.29]	1.277[2.24]	1.235[2.20]
Z2	1.116[1.92]	1.42[2.04]	1.057[1.64]	1.048[1.66]
Z3				
[R ₁]				
R1				
R2		-0.172[1.16]		-0.183[1.15]
[S _m]				
S1				
S2			-0.238[0.25]	-0.385[0.411]
Statistics				
R ²	0.984	0.986	0.984	0.986
R ² ₋₁	0.974	0.975	0.971	0.972
D-W	2.70	2.97	2.68	2.97

APPENDIX VII TABLE NO : 12

REGRESSION RESULTS : PROFIT FUNCTIONS

Cross-Sectional Data Bank Group : Public Sector Banks[28]
[Average of Three years; 1985-87] Fixed Factors of Production :

Z1 = Total Number of Branches
Z2 = Fixed Assets Per Branch

Independent Variable &	Estimated Profit Functions [Best Fit]			
Basic Stat.	$p=f[P_i, Q_j, Z_k]$	$p=f[P_i, Q_j, Z_k, R_l]$	$p=f[P_i, Q_j, Z_k, S_m]$	$p=f[P_i, Q_j, Z_k, R_l, S_m]$
Equation No:	1	2	3	4
Intercept	-2.023[0.32]	-0.594[0.08]	-1.862[0.26]	1.668[0.32]
[P _i]				
P1	-0.433[0.37]		-0.452[0.37]	0.063[0.04]
P2	-0.049[0.04]	-0.229[0.21]	-0.031[0.02]	
P3				
[Q _j]				
Q1	-1.674[1.15]	-0.965[0.63]	-1.696[1.11]	-1.169[0.89]
Q2				
Q3				
[Z _k]				
Z1	1.154[9.82]	1.143[9.56]	1.156[9.35]	1.126[9.86]
Z2	0.938[4.08]	1.004[4.09]	0.937[3.96]	1.032[4.07]
Z3				
[R _l]				
R1		-1.349[1.61]		-1.419[1.35]
R2				
R3		-0.255[1.28]		-0.239[1.10]
[S _m]				
S1			-0.016[0.06]	-0.001[0.00]
S2				
Statistics				
R ²				
R	0.912	0.925	0.912	0.925
$\bar{R}^2$				
R	0.892	0.904	0.887	0.897
D-W	2.47	2.67	2.98	2.37

APPENDIX VII TABLE NO : 13

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : All Commercial Banks

Fixed Factors of Production :

Z1 = Total Number of Branches

Z3 = Total Deposits Per Branch

Independent Variable & Basic Stat.	Estimated Profit Functions [Best Fit]			
	$p=f[P_1, Q_j, Z_k]$	$p=f[P_1, Q_j, Z_k, R_1]$	$p=f[P_1, Q_j, Z_k, S_m]$	$p=f[P_1, Q_j, Z_k, R_1, S_m]$
Equation No	1	2	3	4
Intercept	-14.807[3.88]	-53.25[9.10]	-13.873[5.44]	-35.097[3.19]
[P ₁]				
P1	-1.66[1.93]	-3.589[5.16]	-2.414[3.95]	-2.563[3.45]
P2		-0.196[1.89]		
P3	-1.282[2.72]	-1.538[5.57]	-1.032[3.21]	-1.121[3.33]
[Q _j]				
Q1	0.282[1.65]	0.487[4.70]	0.145[1.21]	0.263[1.64]
Q2	3.361[4.73]	4.682[6.35]	3.948[7.87]	3.631[7.24]
Q3	0.871[3.10]		0.393[1.70]	
[Z _k]				
Z1	0.212[0.47]	1.135[3.86]	0.765[2.25]	1.033[3.08]
Z2				
Z3	2.847[4.28]	3.874[10.04]	3.196[7.05]	3.59[9.44]
[R ₁]				
R1		6.445[6.33]		3.945[2.25]
R2		-0.248[2.29]		-0.221[1.88]
[S _m]				
S1				
S2			-1.998[3.51]	-1.274[1.26]
Statistics				
R ²	0.997	0.999	0.999	0.999
$\bar{R}^2$	0.994	0.998	0.997	0.998
D-W	2.69	2.86	3.04	2.77

APPENDIX VII TABLE NO : 14

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : State Bank of India

Fixed Factors of Production :

Z1 = Total Number of Branches

Z3 = Fixed assets per Branch

Independent Variable & Basic Stat.	Estimated Profit Functions [Best Fit]							
	1		2		3		4	
Equation No:	1	2	3	4	5	6	7	8
Intercept	-18.481[1.67]	-52.753[1.14]	-26.923[1.61]	-68.845[1.50]				
[P1]								
P1		- 5.293[0.60]		- 6.777[0.79]				
P2			- 0.132[0.25]					
P3	- 0.737[1.03]	- 0.081[0.72]	- 0.057[0.77]	- 0.069[0.63]				
[Q1]								
Q1		0.503[0.69]	0.516[0.73]	0.829[1.21]				
Q2								
Q3	1.578[0.79]		2.711[0.90]					
[Z1]								
Z1	2.931[1.64]	9.224[1.05]	1.926[0.66]	10.269[1.21]				
Z2								
Z3	- 0.145[0.12]	- 2.505[0.73]	- 0.524[0.44]	3.136[0.94]				
[R1]								
R1								
R2		1.119[1.28]		1.254[1.48]				
[Sm]								
S1								
S2			4.564[1.56]	3.319[1.32]				
Statistics								
R ²								
R	0.901	0.917	0.923	0.931				
<u>R</u> ²								
R	0.868	0.868	0.864	0.877				
D-W	2.54	2.48	3.10	2.86				

APPENDIX VII TABLE NO : 15

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : Nationalised Banks

Fixed Factors of Production :

Z1 = Total Number of Branches

Z3 = Total Deposits per Branch

Independent Variable & Basic Stat.	Estimated Profit Functions [Best Fit]			
	$p=f[P_i, Q_j, Z_k]$	$p=f[P_i, Q_j, Z_k, R_l]$	$p=f[P_i, Q_j, Z_k, S_m]$	$p=f[P_i, Q_j, Z_k, R_l, S_m]$
Equation No	1	2	3	4
Intercept	-4.188[1.69]	-4.274[1.90]	-4.762[1.83]	4.391[1.79]
[P _i]				
P1	-0.765[1.25]	-0.437[0.82]	0.642[1.04]	-0.483[0.79]
P2	0.437[2.48]	0.402[2.48]	0.462[2.61]	0.410[2.32]
P3				
[Q _j]				
Q1	0.063[0.29]	0.247[1.10]	0.124[0.55]	0.246[1.03]
Q2				
Q3	0.826[2.30]	0.879[2.68]	0.685[1.80]	0.845[2.16]
[Z _k]				
Z1	0.920[1.84]	0.868[1.90]	0.417[0.60]	0.766[1.06]
Z2				
Z3	0.776[2.12]	0.774[2.32]	0.880[2.33]	0.796[2.14]
[R _l]				
R1				
R2		-0.223[1.75]		-0.206[1.25]
[S _m]				
S1			1.285[1.06]	0.271[0.19]
S2				
Statistics				
R^2				
R	0.988	0.991	0.986	0.991
$\bar{R}^2$				
R	0.981	0.984	0.981	0.983
D-W	2.18	2.68	2.25	2.64

APPENDIX VII TABLE NO : 16

REGRESSION RESULTS : PROFIT FUNCTIONS

Cross-Sectional Data
[Average of Three years; 1985-87]

Bank Group : Public Sector Banks[28]
Fixed Factors of Production :

Z1 = Total Number of Branches
Z3 = Total Deposits Per Branch

Independent Variable & Basic Stat.	Estimated Profit Functions [Best Fit]			
	$p=f[P_i, Q_j, Z_k]$	$p=f[P_i, Q_j, Z_k, R_1]$	$p=f[P_i, Q_j, Z_k, S_m]$	$p=f[P_i, Q_j, Z_k, R_1, S_m]$
Equation No	1	2	3	4
Intercept	-8.775[1.31]	-6.353[1.75]	-6.425[0.84]	-9.602[1.37]
[P _i]				
P1	-0.515[0.38]	-1.999[1.80]	-0.766[0.55]	-1.606[1.23]
P2	-0.754[0.56]		-0.473[0.33]	-0.854[0.66]
P3				
[Q _j]				
Q1	0.811[0.54]	1.556[1.26]	0.484[0.30]	2.027[1.28]
Q2				
Q3				
[Z _k]				
Z1	1.158[7.94]	1.137[9.84]	1.169[7.87]	1.182[8.81]
Z2				
Z3	1.076[2.71]	1.190[3.46]	1.101[2.72]	1.139[3.12]
[R ₁]				
R1				
R2				
R3		-0.546[2.58]		-0.548[2.40]
[S _m]				
S1			-0.202[0.68]	-0.025[0.09]
S2				
Statistics				
R^2	0.884	0.910	0.886	0.912
$\bar{R}^2$	0.858	0.889	0.854	0.881
D-W	2.09	1.88	2.15	1.85

APPENDIX VII TABLE NO : 17

REGRESSION RESULTS : PROFIT FUNCTIONS

Annual Observations [1970-86]

Bank Group : State Bank Of India

Fixed Factor of Production :

Z1 = Total Number of Branches

Independent Variable & Basic Stat.		Estimated Profit Functions [Best Fit]							
		1		2		3		4	
Equation No.		1		2		3		4	
Intercept		-22.502[1.54]		-21.398[4.63]		-23.942[1.63]		-30.319[3.86]	
[P _i]									
P1									
P2		-0.209[0.43]		-0.055[0.14]		-0.137[0.27]		-0.237[0.52]	
P3		-0.073[1.04]				-0.056[0.78]		-0.020[0.28]	
[Q _j]									
Q1				0.398[0.61]		0.535[0.78]		0.699[1.02]	
Q2									
Q3		0.697[0.27]				2.33[0.84]			
[Z _k]									
Z1		3.524[1.58]		3.282[4.71]		1.473[0.56]		2.957[3.72]	
Z2									
Z3									
[R _l]									
R1									
R2				0.621[1.52]				0.503[1.16]	
[S _m]									
S1									
S2						4.313[1.57]		3.25[1.31]	
Statistics									
R ²		0.902		0.911		0.921		0.926	
R _{adj} ²		0.870		0.882		0.875		0.882	
D-W		2.57		2.36		2.95		2.78	