# Appendix 3

### **Appendix 3.1 Alternative Indices for Measuring Multifactor Productivity**

In this annexure, we provide the details of the three major MFP indices, viz., the Kendrick Index (KI), the Solow Index (SI) and the Domar Index (DI).

#### (i) Kendrick Index

Kendrick index may be interpreted as the ratio of value added in production to a weighted average of the factors of production, in absence of technological change. Kendrick index for TFP (At) for the time period 't' is stated in equation.

$$A_{t} = \frac{w_{o}L_{t}}{r_{o}K_{t}}$$
 Equation (1)

In the above equation notations ' $w_0$ ' and ' $r_0$ ' denote the factor payment to labour and capital, respectively, 'o' is the base year. Generally, income shares are used as weights to compute the ratio of output to a weighted combination of inputs and thereby measure  $A_t$ . A number of assumptions, implicit in use of these weights are as follows. First, factor payments are equal to their marginal productivity i.e. total earnings of labour and capital in the base year exactly equal to output of that year. Second, technological change is of Hicks-neutral type i.e. the marginal rates of technical substitution between factors of production are constant. The third assumption made in the empirical studies is that of constant returns to scale. Main limitations of the Kendrick Index is that it involves a linear production function and, thus fails to allow for the possible diminishing marginal productivity of factors.

#### (ii) Solow Index

This alternative index due to Solow (1957), used a linear homogenous Cobb-Douglas production function with the assumptions of constant returns to scale i.e. unitary elasticity of substitution, autonomous Hick's neutral technical progress and the factor payments being equal to their marginal products. The Solow index is a number describing empirical productivity growth in an economy from year to year and decade to decade. It is also called geometric index and it is superior over Kendrick's arithmetic index.

$$G_{S} = \frac{\dot{A}}{A} = \frac{\dot{Y}}{V} - \left[ S_{K} \left( \frac{\dot{K}}{K} \right) + S_{L} \left( \frac{\dot{L}}{L} \right) \right]$$
 Equation (2)

Where  $S_L$  and  $S_K$  are the wage share and capital share respectively. Feeding the data on Y, L, K and i, we get a numerical expression for the residual  $\dot{A}/A$  from equation (2). This term is designated as growth rate of TFP (TFPG). Growth rates of TFP are used to construct TFP indices across time. Indices of  $\dot{A}$  are also referred to as the Solow TFP indices or Solow index of technological progress. The Solow concept of TFPG is unambiguous for infinitesimally small and continuous shifts in

technology across time. Estimation of productivity change empirically are based on a discrete set of price and quantity data. A solution to this problem lies in using a 'flexible' functional form of production function which is a second-order approximation to any arbitrary production function which is twice differentiable.

**Domar index** (1961) is the principle that the growth rate of an aggregate is the weighted average of the growth rates of its components, where each component is weighted by the share of the aggregate it makes up. Domar was the first to work on the aggregate measure of productivity and recognize the complications introduced by the presence of intermediate goods. Domar aggregation of total factor productivity assumes a Cobb-Douglas production function with unit elasticity of substitution. It is defined as the ratio of value added to a weighted average (geometric mean) of the two factors of production, the weights being constant factor shares. Domar's aggregation method can be defined as:

$$\mu^{\mathrm{DA}} = \sum_{i} \left( \frac{q_i Y_i}{\sum q_i Z_i} \right) \mu_i$$
 Equation (3)

Where  $\mu_i$  is the growth rate of TFP for the  $i^{th}$  industry.  $q_i$  is the price.  $Y_i$  is the nominal gross output and  $Z_i$  is the nominal final output. Note that  $\mu^{DA}$  is a weighted sum of the industry TFP growth rates, weights are calculated as the ratios of nominal gross output of each industry to nominal final output.

Sr. No.	Industry (Code as per NIC-1998)	Industry (Code as per NIC-2004)	Industry (Code as per NIC- 2008)
1	Division 15: Manufacture of Food Products and Beverages	Division 15: Manufacture of Food Products and Beverages	Division 10: Manufacture of food products Division 11: Manufacture of beverages
2	Division 16: Manufacture of Tobacco Products	Division 16: Manufacture of Tobacco Products	Division 12: Manufacture of tobacco products
3	Division 17: Manufacture of Textiles	Division 17: Manufacture of Textiles	Division 13 Manufacture of textiles
4	Division 18: Manufacture of Wearing Apparel Dressing and Dyeing of Fur	Division 18: Manufacture of Wearing Apparel Dressing and Dyeing of Fur	Division 14 Manufacture of wearing apparel
5	Division 19: Tanning and Dressing of Leather Manufacture of Luggage, Handsbages, Saddlery, Harness and Footwear	Division 19: Tanning and Dressing of Leather Manufacture of Luggage, Handsbages, Saddlery, Harness and Footwear	Division 15 Manufacture of leather and related products
6	Division 20: Manufacture of Wood and Products of Wood and Cork, Except Furniture, Manufacture of Articles of Straw and Plating Materials	Division 20: Manufacture of Wood and Products of Wood and Cork, Except Furniture, Manufacture of Articles of Straw and Plating Materials	Division 16 Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
7	Division 21: Manufacture of Paper and Paper Products	Division 21: Manufacture of Paper and Paper Products	Division 17 Manufacture of paper and paper products
8	Division 22: Publishing, Printing and Reproduction of Recorded Media	Division 22: Publishing, Printing and Reproduction of Recorded Media	Division 18 Printing and reproduction of recorded media

9	Division 23: Manufacture of Coke, Refined Petroleum Products and Nuclear Fuel	Division 23: Manufacture of Coke, Refined Petroleum Products and Nuclear Fuel	Division 19 Manufacture of coke and refined petroleum products
10	Division 24: Manufacture of Chemicals and Products	Division 24: Manufacture of Chemicals and Products	Division 20 Manufacture of chemicals and chemical products Division 21 Manufacture of pharmaceuticals, medicinal chemical and botanical products
11	Division 25: Manufacture of Rubber and Plastic Products	Division 25: Manufacture of Rubber and Plastic Products	Division 22 Manufacture of rubber and plastics products
12	Division 26: Manufacture of Other Non-Metallic Mineral Products	Division 26: Manufacture of Other Non-Metallic Mineral Products	Division 23 Manufacture of other non-metallic mineral product
13	Division 27: Manufacture of Basic Metals	Division 27: Manufacture of Basic Metals	Division 24 Manufacture of basic metals
14	Division 28: Manufacture of Fabricated Metal Products, Except Machinery and Equipments	Division 28: Manufacture of Fabricated Metal Products, Except Machinery and Equipments	Division 25 Manufacture of fabricated metal products, except machinery and equipment
15	Division 29: Manufacture of Machinery and Equipments N.E.C	Division 29: Manufacture of Machinery and Equipments N.E.C	Division 28 Manufacture of machinery and equipment n.e.c.
16	Division 30: Manufacture of Office, Accounting and Computing Machinery	Division 30: Manufacture of Office, Accounting and Computing Machinery	Group 262 (Division 26): Manufacture of computers and peripheral equipment
17	Division 31: Manufacture of Electrical Machinery and Apparatus N.E.C.	Division 31: Manufacture of Electrical Machinery and Apparatus N.E.C.	Division 27 Manufacture of electrical equipment

18	Division 32: Manufacture of Radio, Television and Communication Equipments and Apparatus	Division 32: Manufacture of Radio, Television and Communication Equipments and Apparatus	Group 261 (Division 26): Manufacture of electronic components  Group 263 (Division 26): Manufacture of communication equipment  Group 264 (Division 26): Manufacture of consumer electronics  Group 266 (Division 26): Manufacture of irradiation, electromedical and electrotherapeutic equipment  Group 268 (Division 26): Manufacture of magnetic and optical media
19	Division 33: Manufacture of Medical, Precision and Optical Instruments, Watches and Clocks	Division 33: Manufacture of Medical, Precision and Optical Instruments, Watches and Clocks	Group 265 (Division 26): Manufacture of measuring, testing, navigating and control equipment; watches and clocks  Group 267 (Division 26): Manufacture of optical instruments and equipment  Group 325 (Division 32): Manufacture of medical and dental instruments and supplies
20	Division 34: Manufacture of Motor Vehicles, Trailers and Semi- Trailers	Division 34: Manufacture of Motor Vehicles, Trailers and Semi-Trailers	Division 29 Manufacture of motor vehicles, trailers and semi-trailers
21	Division 35: Manufacture of Other Transport Equipment	Division 35: Manufacture of Other Transport Equipment	Division 30 Manufacture of other transport equipment

22	Division 36: Manufacture	Division 36:	Division 31 Manufacture of
	of Furniture;	Manufacture of	furniture Group
	Manufacturing N.E.C.	Furniture;	321 (Division 32):
		Manufacturing N.E.C.	Manufacture of jewellery,
			bijouterie and related articles
			Group 322 (Division 32):
			Manufacture of musical
			instruments
			Group 323 (Division 32):
			Manufacture of sports goods
			Group 324 (Division 32):
			Manufacture of games and
			toys

Appendix 3.3 Construction of Wholesale Price Index for industries.

Sr.	Industry (Code as	Wholesale Price Index upto	Wholesale Price Index after
No.	per NIC-1998)	1980-81	1981-82
		1. Food Product	1. Food Product
		(A) Dairy Products	(A) Dairy Products
		a. Butter	a. Butter
		b. Ghee	b. Ghee
		(B) Canning & Preserving & Processing of Fish	c. Baby Food
		(C) Grain Mill Products	d. Skimmed Milk Powder
		a. Maida	(B) Canning & Preserving & Processing of Fish
		b. Suji(Rawa)	(C) Grain Mill Products
		c. Atta	a. Maida
		d. Bran	b. Suji(Rawa)
		(D) Bakery Products	c. Atta
		Bread	d. Bran
		Biscuits	(D) Bakery Products
		(E) Sugar, Khandsari & Gur	Bread
	Division 15: Manufacture of Food Products and Beverages	a. Sugar	Biscuits
1		b. Khandsari	(E) Sugar, Khandsari & Gur
1		c. Gur	a. Sugar
		(F) Manufacture of Common Salt	b. Khandsari
		(G) Cocoa, Chocolate & Sugar Confect- ionery	c. Gur
		(H) Edible Oils	(F) Manufacture of Common Salt
		a. Hydrogenated Vanaspati	(G) Cocoa, Chocolate & Sugar Confect- ionery
		b. Gingelly Oil	(H) Edible Oils
		c. Solvent Extracted Groundnut Oil	a. Hydrogenated Vanaspati
		d. Rape & Mustard Oil	b. Gingelly Oil
		e. Coconut Oil	c. Solvent Extracted Groundnut Oil
		f. Groundnut Oil	d. Rape & Mustard Oil
		g. Cotton Seed Oil	e. Coconut Oil
		h. Rice Bran Oil	f. Groundnut Oil

		(I) Oil Cakes	g. Cotton Seed Oil
		a. Rape & Mustard Seed Cake	h. Rice Bran Oil
	Continued Division 15:	b. Groundnut Cake	(I) Oil Cakes
	Manufacture of Food Products and	c. Cotton Seed Oil Cake	a. Rape & Mustard Seed Cake
	Beverages	d. Deoiled Meal Cake	b. Groundnut Cake
		(J) Other Food Products n.e.c.	c. Cotton Seed Oil Cake
		a. Cattle Feed	d. Deoiled Meal Cake
		b. Malted Food	(J) Other Food Products n.e.c.
		2. Beverages, Tobacco & Tobacco Products	a. Cattle Feed
		(A) Wine Industries	b. Malted Food
		a. Rectified Spirit (Industrial Alcohol)	2. Beverages, Tobacco & Tobacco Products
		b. Indian Made Foreign Spirit	(A) Wine Industries
		(B) Malt Liquor	a. Rectified Spirit (Industrial Alcohol)
		(C) Soft Drinks & Carbonated Water	b. Indian Made Foreign Spirit
			(B) Malt Liquor
			(C) Soft Drinks & Carbonated Water
	Division 16:	Bidi	Bidi
2	Manufacture of	Cigarettes	Cigarettes
	Tobacco Products	Zarda	Zarda
		(A) Cotton Textiles	(A) Cotton Textiles
		a. Cotton Yarn	a. Cotton Yarn
		b. Cotton Cloth (Mills)	Hanks
		(B) Woollen Textiles	Cones
		a. Woollen Yarn	b. Cotton Cloth (Mills)
	Division 17:	b. Woollen Cloth	Long Cloth/Sheeting
3	Manufacture of	(C) Jute, Hemp & Mesta	Dealin/Chining
	Textiles	Textiles	Poplin/Shirting
		a. Hessian Cloth	Coating/Drill Dhotics Screen & Voils
		b. Hessian & Sacking Bags	Dhoties, Sarees & Voils  Miss, cotton cloth (Mills)
1			Misc. cotton cloth(Mills)
			L (R) Woollen Toytules
			(B) Woollen Textiles
			(B) Woollen Textiles     a. Woollen Yarn     b. Woollen Cloth

	Continued Division 17: Manufacture of Textiles		(C) Jute, Hemp & Mesta Textiles a. Hessian Cloth b. Hessian & Sacking Bags
		(A) Fibres	(A) Fibres
		a. Raw Cotton	a. Raw Cotton
		b. Raw Jute	b. Raw Jute
	Division 18:	c. Mesta	c. Mesta
	Manufacture of	d. Raw Wool	d. Raw Wool
4	Wearing Apparel	e. Raw Silk	e. Raw Silk
	Dressing and	f. Coir Fibre	f. Coir Fibre
	Dyeing of Fur	(B) Other Non-Food Articles	(B) Other Non-Food Articles
		a. Raw Hides	a. Raw Hides
		b. Raw Skins	b. Raw Skins
		c. Tanning Materials	c. Tanning Materials
	Division 19: Tanning and Dressing of	(A) Leather & Leather Products	(A) Leather & Leather Products
5	Leather Manufacture of Luggage, Handsbages, Saddlery, Harness and Footwear	a. Footwear Western Type	a. Footwear Western Type
	Division 20: Manufacture of	(A) Wood & Wood Products	(A) Wood & Wood Products
6	Wood and Products of Wood and Cork, Except		Ply Wood Commercial Planks
	Furniture, Manufacture of Articles of Straw& Plating Materials		Timber Planks
		(A) Paper & Pulp	(A) Paper & Pulp
		a. Pulp	a. Pulp
		b. Printing Paper White	b. Printing Paper White
	Division 21:	c. Map Litho Paper	c. Map Litho Paper
7	Manufacture of	d. Cream Laid Woven Paper	d. Cream Laid Woven Paper
	Paper and Paper	e. M.G. Paper Poster	e. M.G. Paper Poster
	Products	f. Kraft Paper	f. Kraft Paper
		g. Newsprint	g. Newsprint
		(B) Manufacture of Board	(B) Manufacture of Board

	Continued	a. Duplex Board	a. Duplex Board
	Manufacture of	b. Straw & Mill Board	b. Straw & Mill Board
	Paper and Paper Products	c. Other Boards	c. Other Boards
8	Division 22: Publishing, Printing and Reproduction of	(A) Printing & Publishing of Newspapers etc.	(A) Printing & Publishing of Newspapers etc.
	Recorded Media	a. Newspaper	a. Newspaper
		(A) Coal Mining	(A) Coal Mining
		a. Coal	a. Coal
		b. Coke	b. Coke
	Division 23:	c. Lignite	c. Lignite
	Manufacture of	(B) Mineral Oils	(B) Mineral Oils
9	Coke, Refined	a. Petrol	a. Petrol
9	Petroleum	b. Kerosene	b. Kerosene
	Products and	c. Aviation Turbine Fuel	c. Aviation Turbine Fuel
	Nuclear Fuel	d. High Speed Diesel Oil	d. High Speed Diesel Oil
		e. Light Diesel Oil	e. Light Diesel Oil
		f. Furnace Oil	f. Furnace Oil
		g. Lubricants	g. Lubricants
	Division 24:	(A) Basic Heavy Inorganic Chemicals	(A) Basic Heavy Inorganic Chemicals
		a. Sodium Hydroxide (Caustic Soda)	a. Sodium Hydroxide (Caustic Soda)
		b. Sodium Carbonate (Soda Ash)	b. Sodium Carbonate (Soda Ash)
		c. Oxygen	c. Oxygen
		d. Titanium Dioxide	d. Titanium Dioxide
	Manufacture of Chemicals and Products	e. Liquid Chlorine	e. Liquid Chlorine
10		(B) Basic Heavy Organic Chemicals	(B) Basic Heavy Organic Chemicals
		(C) Fertilizers & Pesticides	(C) Fertilizers & Pesticides
		a. Fertilizers	a. Fertilizers
		b. Pesticides	Ammonium Sulphate N-Content
		(D) Paints, Varnishes &	Lines N. Content
		Lacquers  Doints (Except Alum Points)	Urea N-Content
		a. Paints (Except Alum. Paints)	Complex Fertilizers N-Content
	Continued	b. Enamels	Di-Ammonium Phosphate N-Content

Manufacture of		
Chemicals and	c. Varnishes	Super Phosphate P2o5 Content
Products	(E) Dyestuffs & Indigo	Complex Fertilizers NPK Content
	(G) Drugs & Medicines	Calicum Ammoniun Nitrate N-Content
	(H) Perfumes, Cosmetics, Toiletaries etc.	b. Pesticides
	a. Soaps & Detergents	(D) Paints, Varnishes & Lacquers
	Laundry Soap	a. Paints (Except Alum. Paints)
	Toilet Soap	b. Enamels
	Synthetic Detergents	c. Varnishes
	b. Others	(E) Dyestuffs & Indigo
	Tooth Paste	(G) Drugs & Medicines
	Hair Oils	Vitamin Tablets (A,B,C,D & Others)
	(H) Tarpentine, Synthetic	
	Resins & Plastic Materials etc.	Vitamin Liquids
	a. Synthetic Resins	Penicillin
	b. Synthetic Rubber	Powder/Granules (Other Than Vitamin)
	c. Rubber Chemicals	Liquid Oral (Other Than Vitamin)
	d. P.V.C. Resins	Liquid Injectable (Other Than Vitamin)
	e. Polystyrene	Capsules(Other Than Vitamin & Antibiotics)
	(I) Matches, Explosives, Inedible Oils etc.	Tablets(Execpt Vitamin & Penicillin)
		Ointments
		Syrup
		Ayurvedic Medicines
		(H) Perfumes, Cosmetics, Toiletaries etc.
		a. Soaps & Detergents
		Laundry Soap
		Toilet Soap
		Synthetic Detergents
		b. Others

		(A) Tyres & Tubes	Tooth Paste Hair Oils  (H) Tarpentine, Synthetic Resins & Plastic Materials etc. a. Synthetic Resins b. Synthetic Rubber c. Rubber Chemicals d. P.V.C. Resins e. Polystyrene  (I) Matches, Explosives, Inedible Oils etc. a. Safety Matches b. Blasting Powder c. Cine Colour Positive d. Printing Ink e. Carbon Black f. Fireworks  (A) Tyres & Tubes
11	Division 25: Manufacture of Rubber and Plastic Products	a. Tyres b. Tubes (B) Other Rubber & Plastic Products	a. Tyres Giant Tyres Motor Tyres Cycle Tyres Tractor Tyres b. Tubes Giant Tubes Cycle Tubes (B) Other Rubber & Plastic Products
12	Division 26: Manufacture of Other Non- Metallic Mineral Products	<ul> <li>(A) Structural Clay Products</li> <li>a. Fire Bricks</li> <li>b. Building Bricks</li> <li>c. Ceramic Tiles</li> <li>(B) Glass, Earthenware, Chinaware &amp; Their Products</li> <li>a. Bottles</li> <li>b. Sheet Glass</li> <li>(C) Cement, Lime &amp; Plaster</li> <li>(D) Cement, Slate &amp; Graphite Products</li> </ul>	(A) Structural Clay Products a. Fire Bricks b. Building Bricks c. Ceramic Tiles (B) Glass, Earthenware, Chinaware & Their Products a. Bottles b. Sheet Glass (C) Cement, Lime & Plaster (D) Cement, Slate & Graphite Products

13	Division 27: Manufacture of Basic Metals	(A) Basic Metals and Alloys a. Iron & Steel b. Foundries For Casting & Forging & Structurals c. Pipes, Wire Drawings & Others Pipes & Tubes Steel Wire d. Ferro Alloys Ferro Manganese Ferro Silicon (B) Non-Ferrous Metals a. Aluminium b. Other Non Ferrous-Metals Copper & Brass Rods Lead Nickel Zinc (C) Metal Products a. Barrels b. Utensils	a. Asbestos Cement Corrugated Sheets b. Electrodes c. Grinding Wheels d. Coated Abrasives e. Hume Pipes (A) Basic Metals and Alloys a. Iron & Steel  Basic Pig Iron  Foundry Pig Iron Steel Ingots(Plain Carbon) Billets & Slabs(Semis) Oromild Steel Tensile Plates Angles, Channels & Sections Joists & Rolls Bars & Rods Stainless Steel b. Foundries For Casting & Forging & Structurals c. Pipes, Wire Drawings & Others Pipes & Tubes Steel Wire d. Ferro Alloys Ferro Manganese Ferro Silicon (B) Non-Ferrous Metals a. Aluminium Aluminium Ingots Aluminium Foils
		(C) Metal Products a. Barrels	Ferro Manganese Ferro Silicon (B) Non-Ferrous Metals a. Aluminium Aluminium Ingots
			(C) Metal Products

			a. Barrels
			b. Utensils
	Division 28:	(A) Boilers	(A) Boilers
	Manufacture of	(B) Gas Compressors	(B) Gas Compressors
1.4	Fabricated Metal	(C) Tin Boxes/Containers	(C) Tin Boxes/Containers
14	Products, Except Machinery and	(D) Springs	(D) Springs
	Equipments	(E) Bolts & Nuts	(E) Bolts & Nuts
	_1F		(F) Stampings & Forgings
		(A) Non-Electrical Machinery & Parts	(A) Non-Electrical Machinery & Parts
	Division 29:	a. Heavy Machin- ery & Parts Tractors	a. Heavy Machin- ery & Parts Tractors
15	Manufacture of Machinery and	(B) Industrial Machinery For Food & Textiles	(B) Industrial Machinery For Food & Textiles
	Equipments N.E.C		a. Ring Spinning & Doubling Frames b. Powerlooms
		(A) Eridge Office Equipment	(A) Eridge Office Equipment
		(A) Fridge,Office Equipment & Non-Elec. Machinery	(A) Fridge,Office Equipment & Non-Elec. Machinery
	Division 30: Manufacture of	a. Power Driven Pumps	a. Power Driven Pumps
1.5		b. Air & Gas Compressors	b. Air & Gas Compressors
16	Office, Accounting and Computing	c. Ball Bearings	c. Ball Bearings
	Machinery	d. Sewing Machines	d. Sewing Machines
	Tviue inner y	e. Air Conditioners	e. Air Conditioners
		(A) Electrical Industrial	(A) Electrical Industrial
		Machinery	Machinery
		a. Switch Gears	a. Switch Gears
		b. Components & Accessories Of Switch Gears	b. Components & Accessories Of Switch Gears
	Division 31:	c. Electric Motors Phase One	c. Electric Motors Phase One
17	Manufacture of Electrical	HP d. Electric Motors Phase Three	HP d. Electric Motors Phase Three
1 /	Machinery and	HP	HP
	Apparatus N.E.C.		
		(B) Industrial Wires & Cables	(B) Industrial Wires & Cables
		(C) Dry & Wet Batteries/Cells	(C) Dry & Wet Batteries/Cells
		a. Batteries	a. Batteries
		b. Dry Cell	b. Dry Cell

	Division 32: Manufacture of Radio, Television	(A) Electrical Apparatus, Appliances & Parts	(A) Electrical Apparatus, Appliances & Parts
18	and	a. Ceiling Fans	a. Ceiling Fans
	Communication Equipments and	b. Gls Lamps	b. Gls Lamps
	Apparatus	(B) Radio & T.V. Sets	(B) Radio & T.V. Sets
		(A) Electrical Industrial Machinery a. Switch Gears	(A) Electrical Industrial Machinery a. Switch Gears
	Division 33: Manufacture of	b. Components & Accessories of Switch Gears	b. Components & Accessories of Switch Gears
19	Medical, Precision and Optical	c. Electric Motors Phase One HP	c. Electric Motors Phase One HP
	Instruments, Watches and	d. Electric Motors Phase Three HP	d. Electric Motors Phase Three HP
	Clocks	(B) Industrial Wires & Cables	(B) Industrial Wires & Cables
		(C) Dry & Wet Batteries/Cells	(C) Dry & Wet Batteries/Cells
		a. Batteries	a. Batteries
		b. Dry Cell	b. Dry Cell
		(A) Truck Chassis(Diesel)	(A) Truck Chassis(Diesel)
		(B) Car Chassis (Assembled)	(B) Car Chassis (Assembled)
	Division 34:	(C) Bus Chassis(Diesel)	(C) Bus Chassis(Diesel)
20	Manufacture of Motor Vehicles,	(D) Three Wheelers	(D) Three Wheelers
20	Trailers and Semi-	(E) Motorcycles	(E) Motorcycles
	Trailers	(F) Scooters	(F) Scooters
		(G) Bicycles	(G) Bicycles
		(H) Springs	(H) Springs
	Division 35:	(A) Locomotives, Railway Wagons & Parts	(A) Locomotives, Railway Wagons & Parts
21	Manufacture of Other Transport		a. Broad Gauge Diesel Locomotives
	Equipment		b. Broad Gauge Passenger Carriages
22	Division 36: Manufacture of Furniture; Manufacturing N.E.C.	(A) Steel Furniture	(A) Steel Furniture

Appendix 3.4 Gross/Net Ratios of Different Categories of Fixed Capital by 3-digit level of ASI Industries-1960

Sr.	Industry (Code as per	3-digit level of ASI	Gro	oss-Net Ratio	os	Average Gross-
No.	NIC-1998)	Industries-1960	<b>Building and Construction</b>		Other Equipment	Net Ratio

		205: Floor, Rice and Dal Mills	1.3781	2.6730	1.5200	
		206: Bakery Products	1.1682	1.1620	1.3941	
		207: Sugar and Gur	1.6555	2.2164	2.4659	
1	Division 15: Manufacture of	208: Coca, Chocolate etc.	1.5071	1.8693	2.0360	1.8248
	Food Products and Beverages	209: Miscellaneous Food	1.3437	1.9630	1.8582	1.02.10
		211: Alcohol and Spirits	1.9483	2.4021	2.0384	
		212: Wine	1.6448	1.7923	1.8812	
		312: Vegetable oils	1.6850	2.4827	1.7095	
2	Division 16: Manufacture of Tobacco Products	220: Tobacco	1.5380	1.9800	2.3875	1.9685
	D: : : 17	231: Textiles	1.9432	2.3190	2.2413	
3	Division 17: Manufacture of	233: Rope and Twine	2.2226	2.5013	2.6493	2.2666
3	Textiles	239: Ginning, Pressing etc.	1.7290	2.6647	2.1294	2.2000
4	Division 18: Manufacture of Wearing Apparel Dressing and Dyeing of Fur	232: Knitting Mills	1.6667	2.7241	2.2500	2.2136
5	Division 19: Tanning and Dressing of Leather Manufacture of Luggage, Handsbages, Saddlery, Harness and Footwear	291: Tanneries	2.4860	2.8512	2.9528	2.7633
6	Division 20: Manufacture of Wood and Products of Wood and	251: Wood	1.3951	1.5861	2.1639	1.7090

	Cork, Except Furniture, Manufacture of Articles of Straw and Plating Materials	252: Wooden Products	1.5649	1.4751	2.0691	
7	Division 21: Manufacture of Paper and Paper Products	271: Paper and Paper Products	1.4501	1.6906	1.8135	1.6514
8	Division 22: Publishing, Printing and Reproduction of Recorded Media	280: Printing	1.2511	2.3460	2.1134	1.9035
9	Division 23: Manufacture of Coke, Refined Petroleum Products and Nuclear Fuel	321: Petroleum Refineries	1.3316	1.4973	1.8458	1.5582
		311: Chemicals	1.2760	1.5382	1.6507	
10	Division 24: Manufacture of	313: Paints, Varnishes, etc.	1.8848	2.6083	2.2842	1.8370
	Chemicals and Products	319: Miscellaneous, Pharmaceuticals and Chemical Products	1.5043	1.8188	1.9680	110070
11	Division 25: Manufacture of Rubber and Plastic Products	300: Rubber and Rubber Products	1.3178	1.7100	1.6917	1.5732
	Division 26:	331: Bricks and Tiles	1.8957	2.2284	1.8558	
	Division 26: Manufacture of	332: Glass-wares	1.3443	1.5283	1.5013	
12	Other Non- Metallic	333: China Clay wares	1.9037	2.1617	2.1064	1.8615
	ivictanic	3334: Cement	1.3256	1.7122	1.8770	

	Mineral Products	339: Miscellaneous non-metallic mineral products	1.6348	2.5093	2.3383	
13	Division 27: Manufacture of Basic Metals	341: Iron and Steel	1.3297	1.5777	1.5778	1.4951
14	Division 28: Manufacture of Fabricated Metal Products, Except Machinery and Equipments	342: Non-ferrous basic metal	1.4723	1.8871	1.9982	1.7859
15	Division 29: Manufacture of Machinery and Equipments N.E.C	350: Metal Products	1.3290	2.0077	2.0958	1.8108
16	Division 30: Manufacture of Office, Accounting and Computing Machinery	360: Non-electrical Machinery	1.3505	1.5564	1.5287	1.4785
17	Division 31: Manufacture of Electrical Machinery and Apparatus N.E.C.	370: Electrical Machinery	1.3386	2.0392	1.9140	1.7639
10	Division 32: Manufacture of Radio, Television and	342: Non-ferrous basic metal	1.4723	1.8871	1.9982	1 0027
18	Communication Equipments and Apparatus	399: Miscellaneous	1.5455	2.7050	1.8143	1.9037

19	Division 33: Manufacture of Medical, Precision and Optical Instruments, Watches and Clocks	399: Miscellaneous	1.5455	2.7050	1.8143	2.0216
	Division 34:	383: Motor Vehicles	1.7376	1.6846	1.8238	
20	Manufacture of Motor Vehicles, Trailers and Semi-Trailers	384: Repair of Motor Vehicles	2.5124	2.2314	1.3776	1.7254
		385: Motor Cycles and Bicycles	1.2771	1.4159	1.4680	
	Division 35:	381: Ships and Boat Buildings	1.4199	1.4676	1.8063	
21	Manufacture of Other Transport	382: Railway Rolling Stock	1.4789	1.9872	1.7144	1.5424
	Equipment	389: Miscellaneous Transport Equipment	1.2771	1.3276	1.4030	
22	Division 36: Manufacture of Furniture; Manufacturing N.E.C.	260: Furniture and Fixture	1.0818	1.2399	1.2681	1.1966

**Appendix 3.5 Industry wise construction of Import Penetration Ratio** 

NIC Code	Name of the Industry	Industry included to construct IPR
15	Manufacture of Food Products and Beverages	Live animals chiefly for food Meat and meat preparations Dairy products and birds, eggs Fish, crustaceans and melluscs and preparation thereof Cereals and cereal preparations Vegetables and fruits Sugar, sugar preparations and honey Coffee, tea, cocoa, spices and manufactures thereof Feeding stuff for animals
		Miscellaneous edible products and preparations Oil-seeds and oleaginousfruit Beverages and Tobacco Animal and vegetable oil, fats and waxes
16	Manufacture of Tobacco Products	Tobacco and tobacco manufactures
17	Manufacture of Textiles	Textile fibres (other than wood tops) and their wastes (not manufactured into yarn or fabric)
18	Manufacture of Wearing Apparel Dressing and Dyeing of Fur	Dyeing, tanning and colouring materials Hides, skins and furskins, raw Articles of apparel and clothing accessories
19	Tanning and Dressing of Leather Manufacture of Luggage, Handsbages, Saddlery, Harness and Footwear	Leather, leather manufactures n.e.s. and dressed furskins Footwear
20	Manufacture of Wood and Products of Wood and Cork, Except Furniture, Manufacture of Articles of Straw and Plating Materials	Cork and wood Cork and wood manufactures (excluding furniture)
21	Manufacture of Paper and Paper Products	Pulp and waste paper Paper, paperboard and articles of paperpulp, or paper or paperboard
22	Publishing, Printing and Reproduction of Recorded Media	Photographic or cinematographic goods.

23	Manufacture of Coke, Refined Petroleum Products and Nuclear Fuel	Mineals fuels, lubricants and related materials
		Chemicals and related products Organic chemicals Inorganic chemicals Madicipal and phermacoutical products
24	Manufacture of Chemicals and Products	Medicinal and pharmaceutical products Essentials oils and prefume materials: toilet, polishing and cleansing preparations
		Fertilisers, manufactured Exposives and pyrotechnic products
		Artificials resins and plastic materials and cellulose esters and ethers
		Chemical materials and products n.e.s.
25	Manufacture of Rubber and Plastic Products	Rubber manufactures, n.e.s.
26	Manufacture of Other Non-Metallic Mineral Products	Non-Metallic manufactures n.e.s.
		Metalliferous ores and metal scrap
27	Manufacture of Basic Metals	Iron and steel
	M. C. C. CELL AND A	Non-Ferrous metals
28	Manufacture of Fabricated Metal Products, Except Machinery and Equipments	Manufactures of metal n.e.s.
29	Manufacture of Machinery and Equipments N.E.C	Power generating machinery and equipment Machinery specialised for particular industries Metal working machinery
		General industrial machinery and equipment, n.e.s. and machine parts
30	Manufacture of Office, Accounting and Computing Machinery	Office machines and automatic data processing equipment
31	Manufacture of Electrical Machinery and Apparatus N.E.C.	Electircal Machinery, apparatus and appliances n.e.es. And electrical parts thereof (including non-electrical counterparts, n.e.s. of electrical household type equipment
32	Manufacture of Radio, Television and Communication Equipments and Apparatus	Telecommunication and sound recording and reporducing apparaturs and equipment

33	Manufacture of Medical, Precision and Optical Instruments, Watches and Clocks	Photographic apparatus, equipment and supplies and optical goods n.e.s. watches and clocks
34	Manufacture of Motor Vehicles, Trailers and Semi-Trailers	Road vehicles (including aircushion vehicles)
35	Manufacture of Other Transport Equipment	Other transport equipment
36	Manufacture of Furniture; Manufacturing N.E.C.	Miscellaneous Manufactured articles

**Appendix 3.6 Industry wise construction of Import Coverage Ratio** 

NIC Code	Name of the Industry	Industry included to construct ICR
15	Manufacture of Food Products and Beverages	Average of all Import Penetration Ratio
16	Manufacture of Tobacco Products	Tobacco products
17	Manufacture of Textiles	Cotton ginning, bailing & cleaning Cotton spinning not in Mills Cotton spinning in Mills Threads, Cordage, Ropes etc W&F cotton Khadi W&F of Cotton- Handloom W&F of Cotton-Powerloom Printing of Cotton Textiles
18	Manufacture of Wearing Apparel Dressing and Dyeing of Fur	Knitted or Crocheted Textiles Blankets,Shawl,Carpets& Rugs Textile Garments &Accessories Made-Up Textiles Water-Proof Textiles Textile Products nec
19	Tanning and Dressing of Leather Manufacture of Luggage, Handsbages, Saddlery, Harness and Footwear	Tanning & Curing of Leather Leather Footwear Apparel of Leather & Subs Leather Products & Substitutes Leather & Fur Products nec
20	Division 20: Manufacture of Wood and Products of Wood and Cork, Except Furniture, Manufacture of Articles of Straw and Plating Materials	Metal Kitchen Ware
21	Division 21: Manufacture of Paper and Paper Products	Average of all Import Penetration Ratio
22	Division 22: Publishing, Printing and Reproduction of Recorded Media	Office & Computing Machinery
23	Manufacture of Coke, Refined Petroleum Products and Nuclear Fuel	Refined Petroleum Products Refined Petroleum Products nec Coke Oven Products
24	Manufacture of Chemicals and Products	Organic & Inorganic Chemicals Fertilizer & Pesticides Synthetic Rubber & ManmadeFibre

		Paints, Varnishes etc
		Explosives etc
		Chemical Products nec
		Perfumes, Cosmetics & lotions
		Tyres & Tubes
	Manufacture of Rubber and Plastic	Rubber Products nec
25	Products	Plastic Products nec
	Toddets	Rubber & Plastic Footwear
26	Manufacture of Other Non-Metallic Mineral Products	Other Coal Tar Products
20		Iron and Steel in P/SF form
		Iron And Steel in SF form
		Ferro Alloys
27	Manufacture of Basic Metals	Copper manufacturing
21	Wandracture of Basic Wetais	Aluminum manufacturing
		Zinc Manufacturing
		Metal scraps & Non Ferrous Fab Structural Metal Prods
20	Manufacture of Fabricated Metal	
28	Products, Except Machinery and	Fab Structural Metal nec
	Equipments	Hand-tools, Weights etc
		Agr machinery, Eqpts & Parts
		Constr /Mining Machinery
	Manufacture of Machinery and	Prime Movers & Boilers
29	Equipments N.E.C	Food & Textile Machinery
		Other Machinery
		General Purpose Machinery
		Machine-Tools & Accessories
30	Manufacture of Office, Accounting and	Office & Computing Machinery
30	Computing Machinery	Special Purpose Machinery
		Electrical Industrial Machinery
	M C ( CEL ( LM 1 L	Wires & Cables
31	Manufacture of Electrical Machinery and Apparatus N.E.C.	Cells & Batteries
	Apparatus IV.E.C.	Refrigerators & Air conditioner
		Lamps & Domestic Appliances
	Manufacture of Radio, Television and	Radio & TV
32	Communication Equipments and Apparatus	Electronic Valves & Tubes
33	Manufacture of Medical, Precision and	X-ray Machinery
	Optical Instruments, Watches and Clocks	Drugs & Medicines
34		Ships and Boats

	Manufacture of Motor Vehicles, Trailers and Semi-Trailers	Locomotives and Parts Wagons and Coaches Aircraft and related products Motor Vehicles, cars & Products Motor-cycles & Related Products Bicycles & Parts
35	Manufacture of Other Transport Equipment	Transport Equipment nec
36	Manufacture of Furniture; Manufacturing N.E.C.	Furniture & Fixtures

**Appendix 3.7 Industry wise construction of Effective Rate of Protection** 

NIC Code	Name of the Industry	Industry included to construct ERP				
15	Manufacture of Food Products and Beverages	Sugar Hydrogenated oil Tea & Coffee processing Miscellaneous food products Beverages				
16	Manufacture of Tobacco Products	Tobacco products				
17	Manufacture of Textiles	Cotton Textiles Threads, Cordage etc Power looms & Printed Cotton Textiles				
18	Manufacture of Wearing Apparel Dressing and Dyeing of Fur	Cotton Khadi & Handloom Blankets, Shawls, Rugs etc Water Proof Textiles & others				
19	Tanning and Dressing of Leather Manufacture of Luggage, Handsbages, Saddlery, Harness and Footwear	Tanning & Curing of Leather Leather Footwear Leather Products				
20	Manufacture of Wood and Products of Wood and Cork, Except Furniture, Manufacture of Articles of Straw and Plating Materials	Average of All Industries				
21	Manufacture of Paper and Paper Products	Average of All Industries				
22	Publishing, Printing and Reproduction of Recorded Media	Office & Computing				
23	Manufacture of Coke, Refined Petroleum Products and Nuclear Fuel	Petroleum Products Coke, Coal				
24	Manufacture of Chemicals and Products	Organic & Inorganic Chemical Fertlizer & Pesticides Synthetic Rub & Fibres Paints, Varnishes etc Explosives, Chemicals nec etc Perfum etc				
25		Rubber Prods, Tyres & Tubes				

	Manufacture of Rubber and Plastic Products	Plastic Prods nec Footwear- Rubber & Plastics				
		Cement				
26	Manufacture of Other Non-Metallic Mineral Products	Other Non-metallic mineral products				
		Iron & Steel				
27	Manufacture of Basic Metals	Ferro Alloys				
		Copper, Aluminum, Zinc				
	Manufacture of Fabricated Metal	Fabricated Structural Metals				
28	Products, Except Machinery and	Hand tools & Weights				
	Equipments	Wires & Cables				
		Agr machinery, Parts & Equip				
	Manufacture of Mashinam and	Min mach, Boilers, Oth Mach				
29	Manufacture of Machinery and Equipments N.E.C	Food & Textile Machinery				
	Equipments 10.2.0	Gen purpose Machinery				
		Machine Tools & Accs				
30	Manufacture of Office, Accounting and Computing Machinery	Office & Computing Mach				
31	Manufacture of Electrical Machinery and	Elect Industrial Machinery				
31	Apparatus N.E.C.	AC/Refgr, Lamps, Appliances				
32	Division 32: Manufacture of Radio, Television and Communication Equipments and Apparatus	Cells & Batteries				
33	Manufacture of Medical, Precision and	Apparatus, Valves, Machines				
33	Optical Instruments, Watches and Clocks	Drugs & Medicines				
34		Locomotive, Wagon, coaches				
	Manufacture of Material VIII To 11	Aircraft, Transport nec etc				
	Manufacture of Motor Vehicles, Trailers and Semi-Trailers	Vehicles, Cars & Products				
	and Senii-Traners	Motor Cycles & Parts				
		Bicycles & Parts				
35	Manufacture of Other Transport Equipment	Ships & Boats				
36	Manufacture of Furniture; Manufacturing N.E.C.	Furniture & Wares of Metals				

**Appendix 4.1 Industry wise Total Factor Productivity Growth rate** 

	endix 4.1 industry wise 1 of all Factor Productivity Growth rate										25
Year	15	16	17	18	19	20	21	22	23	24	25
1975-76	6.62	7.14	11.70	38.49	3.20	-4.72	-0.28	-25.06	12.40	10.80	15.85
1976-77	-0.39	24.45	5.73	27.91	36.92	9.54	4.21	12.91	15.02	10.65	10.77
1977-78	14.79	3.65	10.35	26.57	3.99	8.68	5.74	16.66	20.77	13.22	7.96
1978-79	6.64	-0.45	6.13	12.60	27.20	3.17	8.18	4.37	2.85	12.38	-9.17
1979-80	2.44	-13.82	-3.73	-0.10	16.90	3.52	4.95	-4.80	7.46	4.91	15.78
1980-81	-8.64	-7.70	10.82	31.34	-32.85	-2.67	1.43	-0.10	10.24	1.03	9.47
1981-82	7.91	18.49	6.80	7.88	-1.84	-9.99	8.59	13.94	7.16	13.80	4.63
1982-83	16.90	5.27	2.71	21.90	-2.78	3.79	-2.44	-0.05	18.82	6.01	11.80
1983-84	5.92	14.97	1.98	-21.03	-4.14	-4.79	8.47	1.71	-15.31	7.18	2.39
1984-85	3.38	-14.72	-7.91	3.31	15.96	3.31	20.59	2.78	1.74	6.58	11.82
1985-86	1.98	3.50	14.59	27.72	7.09	-16.31	-5.81	-11.36	25.52	3.00	9.36
1986-87	5.19	8.13	11.22	15.94	-1.66	9.83	8.87	5.79	-4.90	6.76	7.08
1987-88	4.43	5.43	-1.66	12.29	41.83	4.26	4.01	5.74	2.65	7.51	14.65
1988-89	10.78	8.79	1.07	21.86	10.51	23.08	11.56	-1.94	8.75	8.54	17.24
1989-90	15.66	16.50	14.55	12.10	-20.15	0.06	20.68	-0.86	7.29	22.17	18.08
1990-91	4.24	10.67	5.46	8.71	21.42	7.99	10.55	5.81	18.55	5.95	9.45
1991-92	6.33	5.60	2.69	31.67	-24.32	-25.07	1.82	-5.79	-50.63	-4.04	4.89
1992-93	4.47	9.14	8.77	20.89	-5.85	-0.45	3.88	-4.32	21.59	8.81	14.56
1993-94	4.25	9.84	10.02	26.39	22.97	11.91	8.51	15.47	12.06	4.66	14.93
1994-95	3.37	-2.91	0.36	-1.71	8.48	66.50	37.96	19.77	10.79	21.34	2.76
1995-96	7.20	-25.75	-0.81	-2.32	-1.65	-1.98	9.48	36.29	28.68	22.06	8.54
1996-97	3.04	20.29	3.30	-11.19	1.28	23.68	1.65	-10.50	-11.31	-2.16	13.71
1997-98	7.92	2.10	19.79	29.23	14.03	-49.11	-0.54	6.04	-2.70	24.20	14.22
1998-99	13.39	7.99	-5.56	11.76	-2.39	-40.35	9.45	-5.60	4.34	11.19	16.55
1999-00	6.06	4.70	12.29	14.40	-9.26	28.14	9.84	23.26	11.12	12.30	6.41
2000-01	-0.15	7.75	8.21	10.01	19.64	9.88	19.32	4.05	4.56	-2.37	-19.74
2001-02	0.90	-24.68	-15.61	-17.85	11.11	43.92	-11.17	-8.36	26.68	-7.26	14.40
2002-03	11.81	15.71	6.77	24.34	6.90	-16.54	20.76	3.09	35.00	7.23	3.82
2003-04	1.12	-2.17	7.27	-13.59	-2.37	20.37	8.31	4.44	7.94	7.01	9.91
2004-05	9.13	-2.10	7.64	28.14	1.44	13.42	7.74	17.40	12.53	8.54	26.87
2005-06	7.40	5.33	10.55	5.76	17.88	8.23	6.26	14.27	6.24	9.87	-3.82
2006-07	15.98	5.91	23.90	8.33	6.31	7.56	6.06	10.10	17.41	10.48	14.47
2007-08	14.20	-15.95	-1.03	-0.85	29.17	12.89	23.94	12.79	10.40	6.97	10.33
2008-09	9.94	23.59	0.58	33.49	2.20	7.96	8.20	-24.50	-10.34	19.68	19.69
2009-10	-1.27	-1.69	3.99	12.26	15.74	11.50	7.38	-6.28	15.27	2.60	20.78
2010-11	18.90	8.91	20.15	4.23	2.71	38.80	21.66	41.77	13.06	16.81	8.56
2011-12	20.17	-8.08	0.40	1.20	8.55	-6.05	8.38	0.10	-9.60	20.09	9.34

## Continued...

Year	26	27	28	29	30	31	32	33	34	35	36
1975-76	11.96	14.13	3.11	-0.15	29.31	16.07	8.13	10.51	5.43	-11.02	-16.80
1976-77	12.12	7.61	11.44	20.47	4.71	17.47	20.23	28.16	12.44	8.72	11.50
1977-78	12.47	-0.12	7.40	6.37	3.82	5.71	9.60	18.08	-1.24	5.60	23.81
1978-79	-0.35	23.43	-6.24	2.17	30.33	6.24	8.15	6.53	14.02	-8.17	14.10
1979-80	0.55	2.57	12.19	3.06	5.13	6.50	20.10	14.66	-2.06	27.89	-13.23
1980-81	1.03	7.45	-3.08	7.75	19.75	17.99	-11.25	2.46	9.83	8.65	12.44
1981-82	16.33	14.74	-9.75	3.04	-1.90	-0.63	-8.71	7.57	14.06	-17.03	-10.24
1982-83	16.49	11.54	3.47	6.68	38.17	10.44	59.65	18.79	11.25	0.96	-25.86
1983-84	5.30	-6.68	-1.67	3.99	-3.58	-5.13	0.58	8.59	-4.42	1.81	26.63
1984-85	10.44	7.04	6.50	3.02	19.77	8.55	24.09	0.77	0.74	16.89	11.15
1985-86	10.02	1.26	1.16	-5.00	18.79	-6.13	26.85	7.46	8.07	-13.66	9.48
1986-87	-1.51	3.85	-6.87	-6.24	4.07	1.86	17.21	12.55	13.48	17.69	-16.54
1987-88	4.64	0.51	27.20	13.94	-17.59	24.11	27.71	6.60	1.77	14.21	7.93
1988-89	15.08	11.10	0.08	7.56	51.73	2.14	19.28	4.85	15.61	7.24	16.71
1989-90	9.23	3.61	17.14	14.55	-3.30	12.67	24.19	15.46	14.36	2.93	-8.30
1990-91	8.21	10.73	3.22	11.11	-8.46	13.01	-4.16	-1.53	7.36	7.43	-14.13
1991-92	15.97	-2.16	0.01	-3.00	36.14	-6.22	10.32	0.54	-18.36	-1.64	4.86
1992-93	-2.65	17.71	-5.82	4.69	8.84	3.51	22.60	2.84	18.39	9.58	35.00
1993-94	-1.41	-6.31	19.62	4.53	-44.73	7.73	-9.99	27.03	10.13	6.92	26.29
1994-95	8.73	25.54	23.70	72.57	73.16	20.42	54.10	10.32	29.13	21.85	21.52
1995-96	16.05	14.97	30.44	30.67	1.56	12.47	10.94	20.64	40.25	23.58	28.11
1996-97	-0.32	-13.62	2.36	0.67	-8.76	-14.37	-3.18	-6.16	3.68	4.51	1.84
1997-98	10.29	26.32	12.95	-10.83	21.83	21.09	33.75	2.42	-7.28	-4.58	33.63
1998-99	-6.09	-11.70	0.93	17.66	-57.51	10.58	10.58	23.79	-7.77	-7.74	18.16
1999-00	27.57	11.53	-4.24	-1.93	10.03	2.94	-3.99	18.55	29.51	25.02	42.03
2000-01	-2.72	-6.67	8.50	-3.34	46.20	-14.44	5.09	-15.42	-7.76	-1.72	-39.44
2001-02	-2.04	1.89	-3.62	-6.39	16.71	6.46	-11.38	22.02	-1.20	13.75	46.85
2002-03	2.19	22.80	20.89	5.27	-6.20	12.60	43.15	2.67	33.87	4.05	-16.20
2003-04	5.12	19.63	14.85	12.57	21.29	3.91	-2.46	15.47	17.57	7.70	29.80
2004-05	27.19	39.15	0.86	22.36	-12.69	13.04	9.35	0.07	64.95	35.32	29.10
2005-06	2.54	2.50	20.19	20.96	28.12	39.06	10.09	-2.97	-21.45	13.80	21.66
2006-07	22.23	20.34	29.42	12.85	15.11	17.39	7.06	2.58	13.00	10.85	13.33
2007-08	20.42	7.62	24.47	22.11	3.43	-0.08	16.36	23.71	13.34	-8.76	10.29
2008-09	20.63	10.13	-1.60	12.80	-13.71	19.64	35.15	-35.41	2.91	13.05	-3.60
2009-10	-2.28	9.02	8.57	-4.05	16.38	10.08	23.16	5.15	26.20	10.98	-15.60
2010-11	9.90	21.90	32.23	22.61	11.88	21.42	1.08	22.90	20.94	28.93	39.73
2011-12	12.41	21.50	13.66	10.44	1.03	2.22	-16.92	6.74	22.17	9.25	27.18