

Gang, Ira N.; Pandey, Mihir

Working Paper

What Was Protected? Measuring India's Tariff Barriers 1968-1992

Working Paper, No. 1996-15

Provided in Cooperation with:

Department of Economics, Rutgers University

Suggested Citation: Gang, Ira N.; Pandey, Mihir (1998) : What Was Protected? Measuring India's Tariff Barriers 1968-1992, Working Paper, No. 1996-15, Rutgers University, Department of Economics, New Brunswick, NJ

This Version is available at:

<https://hdl.handle.net/10419/94348>

Standard-Nutzungsbedingungen:

Die Dokumente auf EconStor dürfen zu eigenen wissenschaftlichen Zwecken und zum Privatgebrauch gespeichert und kopiert werden.

Sie dürfen die Dokumente nicht für öffentliche oder kommerzielle Zwecke vervielfältigen, öffentlich ausstellen, öffentlich zugänglich machen, vertreiben oder anderweitig nutzen.

Sofern die Verfasser die Dokumente unter Open-Content-Lizenzen (insbesondere CC-Lizenzen) zur Verfügung gestellt haben sollten, gelten abweichend von diesen Nutzungsbedingungen die in der dort genannten Lizenz gewährten Nutzungsrechte.

Terms of use:

Documents in EconStor may be saved and copied for your personal and scholarly purposes.

You are not to copy documents for public or commercial purposes, to exhibit the documents publicly, to make them publicly available on the internet, or to distribute or otherwise use the documents in public.

If the documents have been made available under an Open Content Licence (especially Creative Commons Licences), you may exercise further usage rights as specified in the indicated licence.

Table 10(a) : Effective Rates of Protection Using *Ex Poste* (Realized) Tariff Rates According to Activity (53 industries)

SECTOR	ERP.B			ERP.C		
	1979-80	1984-85	1991-92	1979-80	1984-85	1991-92
1 Primary	8.56	39.93	3.02	7.08	39.18	2.92
2 Secondary	103.35	-100.34	-11.87	45.19	-134.00	16.23
3 Tertiary	-6.80	-7.11	-1.89	-6.47	-6.66	-1.29

Source : Our calculations

Notes : The ERP measures are based on realized tariff rates obtained from the input-output tables

Table 10(b) : Effective Rates of Protection Using *Ex Ante* (Published) Tariff Rates According to Activity (32 industries)

SECTOR	ERP.BG			ERP.CG		
	1979-80	1984-85	1991-92	1979-80	1984-85	1991-92
1 Primary	-	-	-	-	-	-
2 Secondary	87.59	112.65	121.32	87.73	112.09	117.34
3 Tertiary	-	-	-	-	-	-

Source : Our calculation

Notes: These ERP measures are calculated for the three year plans using the *ex ante* rates of Goldar and Saleem (1992).

Table 11(a): Effective Rate of Protection Using *Ex Post* (Realized) Tariff Rates - Trade Based Classification (53 Industries)

TYPE	ERP.B			ERP.C		
	1979-80	1984-85	1991-92	1979-80	1984-85	1991-92
EXPORTABLES	2.12	7.89	1.49	-1.46	-34.42	1.06
IMPORTABLES	110.85	11.92	-11.51	59.95	37.40	12.26
NON-COMPETING	-8.58	-10.00	-3.62	-8.19	-10.41	-1.38

Source : Our calculation

Notes : The ERP measures are based on realized tariff rates obtained from the input-output tables.

Table 11(b) : Effective Rate of Protection Using *Ex Ante* (Published) Tariff Rates- Trade Based Classification (32 industries)

TYPE	ERP.BG			ERP.CG		
	1979-80	1984-85	1991-92	1979-80	1984-85	1991-92
EXPORTABLES	14.98	11.55	25.28	14.89	11.48	24.20
IMPORTABLES	30.98	34.78	40.00	31.54	34.60	39.30
NON-COMPETING	1.02	6.44	-0.02	1.02	6.44	-0.07

Source: Our calculation

Notes: These ERP measures are calculated for the three plan years using the *ex ante* tariff rates of Goldar and Saleem (1992).

Table 12 : Other Measures

	Sixth Plan	Seventh Plan	Eighth Plan	Sixth Plan	Seventh Plan	Eighth Plan	Sixth Plan	Seventh Plan	Eighth Plan	Sixth Plan	Seventh Plan	Eighth Plan
SECTOR	RMOUTPUT	RMOUTPUT	RMOUTPUT	RTRADEY	RTRADEY	RTRADEY	TCI	TCI	TCI	MPENET	MPENET	MPENET
1 PADDY	0.0000	0.0089	0.0010	0.0105	0.0444	0.0141	-0.01	-0.03	-0.01	0.0000	0.0092	0.0010
2 WHEAT	0.0038	0.0282	0.0011	0.0212	0.0283	0.0013	-0.01	0.03	0.00	0.0038	0.0274	0.0011
3 OTHER CEREALS	0.0000	0.0000	0.0000	0.0005	0.0033	0.0003	0.00	0.00	0.00	0.0000	0.0000	0.0000
4 PULSES	0.0097	0.0172	0.0410	0.0097	0.0173	0.0410	0.01	0.02	0.04	0.0096	0.0169	0.0394
5 SUGARCANE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0.00	0.00	0.0000	0.0000	0.0000
6 JUTE	0.0000	0.0099	0.0132	0.0040	0.0423	0.0132	0.00	-0.02	0.01	0.0000	0.0102	0.0131
7 COTTON	0.0000	0.0099	0.0370	0.0439	0.0423	0.2193	-0.04	-0.02	-0.15	0.0000	0.0102	0.0433
8 OTHER CROPS	0.0072	0.0053	0.0047	0.0308	0.0255	0.0524	-0.02	-0.01	-0.04	0.0073	0.0053	0.0050
9 ANIMAL HUSBANDRY	0.0052	0.0194	0.0102	0.0092	0.0220	0.0141	0.00	0.02	0.01	0.0052	0.0191	0.0101
10 FORESTRY & LOGGING	0.0055	0.0238	0.0670	0.0849	0.1609	0.0670	-0.07	-0.11	0.07	0.0060	0.0268	0.0628
11 FISHING	0.0015	0.0053	0.0008	0.0059	0.0646	0.2501	0.00	-0.05	-0.25	0.0015	0.0056	0.0011
12 COAL & LIGNITE	0.0584	0.0252	0.0682	0.0690	0.0265	0.0717	0.05	0.02	0.06	0.0558	0.0246	0.0641
13 CRUDE PETROLEUM + N. GAS	5.0155	1.6046	0.9385	5.0155	2.3526	0.9385	5.02	0.86	0.94	0.8338	0.8643	0.4841
14 IRON ORE	0.0009	0.0000	0.0000	0.6261	0.9539	0.7004	-0.62	-0.95	-0.70	0.0024	0.0000	0.0000
15 OTHER MINERALS	1.7491	2.6629	3.6295	1.9222	2.7788	3.8151	1.58	2.55	3.44	0.6790	0.6732	0.8167
16 SUGAR	0.0000	0.1299	0.0014	0.0829	0.1649	0.0068	-0.08	0.09	0.00	0.0000	0.1186	0.0014
17 KHANDSARI BOORA	0.0000	0.0000	0.0000	0.0010	0.0000	0.0000	0.00	0.00	0.00	0.0000	0.0000	0.0000
18 HYDROGENATED OIL	0.0000	0.1194	0.0053	0.0000	0.2699	0.0053	0.00	-0.03	0.01	0.0000	0.1232	0.0053
19 OTHER F & B	0.0892	0.1194	0.0168	0.2321	0.2699	0.0583	-0.05	-0.03	-0.02	0.0943	0.1232	0.0172
20 COTTON TEXTILES	0.0000	0.0001	0.0021	0.0418	0.0758	0.0804	-0.04	-0.08	-0.08	0.0000	0.0001	0.0022
21 WOOLEN & SILK TEXTILES	0.0249	0.0024	0.0219	0.0781	0.0083	0.0626	-0.03	0.00	-0.02	0.0256	0.0024	0.0223
22 JUTE TEXTILES	0.0000	0.0067	0.0033	0.2549	0.2473	0.1089	-0.25	-0.23	-0.10	0.0000	0.0088	0.0037
23 OTHER TEXTILES	0.0046	0.0067	0.0184	0.2784	0.2473	0.4847	-0.27	-0.23	-0.45	0.0064	0.0088	0.0334
24 WOOD & WOOD PRODUCTS	0.0009	0.0013	0.0114	0.0125	0.0054	0.0163	-0.01	0.00	0.01	0.0009	0.0013	0.0114
25 PAPER/PAPER PRODUCTS	0.1278	0.1666	0.1314	0.1372	0.1761	0.1360	0.12	1.00	0.13	0.1143	0.1440	0.1166
26 LEATHER/L.PRODUCTS	0.0002	0.0047	0.0111	0.3403	0.5616	0.5659	-0.34	-0.55	-0.54	0.0003	0.0105	0.0244
27 RUBBER PRODUCTS	0.0064	0.0210	0.0124	0.0265	0.0516	0.1533	-0.01	-0.01	-0.13	0.0064	0.0212	0.0142
28 PLASTIC PRODUCTS	0.1412	0.0000	0.0324	0.1864	0.0587	0.1042	0.10	-0.06	-0.04	0.1288	0.0000	0.0337
29 PETROLEUM PRODUCTS	0.3575	0.4048	0.1969	0.3575	0.4557	0.2413	0.36	0.35	0.15	0.2634	0.2990	0.1709
30 COAL TAR PRODUCTS	0.0031	0.0000	0.0565	0.0256	0.0000	0.0573	-0.02	0.00	0.06	0.0032	0.0000	0.0536
31 FERTILIZERS	0.2813	0.6867	0.2326	0.2813	0.6867	0.2330	0.28	0.69	0.23	0.2195	0.4071	0.1888
32 PESTICIDES	0.0797	0.0374	0.0956	0.0840	0.0496	0.1772	0.08	0.03	0.01	0.0741	0.0365	0.0943
33 SYNTHETIC FIBRE & RESIN	0.1767	0.3881	1.1358	0.1775	0.3901	1.1649	0.18	0.39	1.11	0.1503	0.2800	0.5391
34 OTHER CHEMICALS	0.0919	0.1086	0.1236	0.1220	0.1655	0.2280	0.06	0.05	0.02	0.0866	0.1033	0.1212
35 CEMENT	0.1725	0.0307	0.0009	0.1771	0.0307	0.0009	0.17	0.03	0.00	0.1477	0.0298	0.0009
36 NON. MET. MINERAL PRODUCTS	0.0069	0.0195	0.0327	0.0261	0.0402	0.0844	-0.01	0.00	-0.02	0.0070	0.0196	0.0333
37 IRON & STEEL	0.2193	0.1788	0.0786	0.2569	0.1936	0.0894	0.18	0.16	0.07	0.1856	0.1536	0.0736
38 NON FERROUS METALS	0.2410	0.3296	0.2340	0.2972	0.3377	0.2602	0.18	0.32	0.21	0.2034	0.2494	0.1938
39 TRACTORS & OTH. AGRI. MACH	0.0711	0.4751	0.0026	0.0793	0.5479	0.0097	0.06	0.40	0.00	0.0669	0.3388	0.0026
40 MACHINE TOOLS	0.2257	0.4751	0.2117	0.2491	0.5479	0.3607	0.20	0.40	0.06	0.1877	0.3388	0.1992
41 OTH. NON. ELECT. MACHINERY	0.2073	0.4751	0.7552	0.2553	0.5479	0.8371	0.16	0.40	0.67	0.1788	0.3388	0.4513
42 COMMUNIC. ELECTRONIC EQUIP	0.1973	0.1592	0.1151	0.2303	0.1674	0.1544	0.16	0.15	0.08	0.1695	0.1383	0.1070
43 ELECTRICAL MACHINERY	0.0789	0.2158	0.4702	0.1248	0.2816	0.5430	0.03	0.15	0.40	0.0763	0.1876	0.3365
44 RAIL EQUIPMENT	0.0116	0.1959	0.0229	0.0516	0.2258	0.0262	-0.03	0.17	0.02	0.0119	0.1680	0.0224
45 MOTOR VEHICLES	0.0159	0.0117	0.0624	0.0573	0.0774	0.1150	-0.03	-0.05	0.01	0.0164	0.0123	0.0618
46 OTHER TRANSPORT EQUIPMENT	0.2039	0.1565	0.4769	0.2500	0.1649	0.5520	0.16	0.15	0.40	0.1761	0.1363	0.3402
47 OTHER MANUFACTURING	0.0448	0.0794	0.1813	0.2066	0.4601	0.4650	-0.12	-0.30	-0.10	0.0507	0.1137	0.2020
48 CONSTRUCTION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	0.00	0.00	0.0000	0.0000	0.0000
49 ELECTRICITY ETC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.00	0.00	0.00	0.0000	0.0000	0.0000
50 RAILWAYS	0.0000	0.0000	0.0000	0.0494	0.0686	0.0553	-0.05	-0.07	-0.06	0.0000	0.0000	0.0000
51 OTHER TRANSPORT	0.0000	0.0000	0.1352	0.0169	0.0278	0.2032	-0.02	-0.03	0.07	0.0000	0.0000	0.1267
52 COMMUNICATION	0.0000	0.0000	0.0354	0.0000	0.0000	0.0512	0.00	0.00	0.02	0.0000	0.0000	0.0347
53 TRADE & OTHER SERVICES	0.0000	0.0000	0.0161	0.0228	0.0307	0.0753	-0.02	-0.03	-0.04	0.0000	0.0000	0.0168

TABLE 13 : Ratio of Imports and Trade to Output (53 industries)

INPUT BASED CLASSIFICATION	1979-80	1984-85	1991-92	1979-80	1984-85	1991-92
COMMODITY GROUP	RMOUTPUT	RMOUTPUT	RMOUTPUT	RTRADEY	RTRADEY	RTRADEY
0 Consumer non-durables	0.0078	0.0155	0.0099	0.0361	0.0467	0.0708
1 Consumer durables	0.0625	0.0882	0.1861	0.1921	0.3408	0.3360
2 Intermediate goods	0.3174	0.4710	0.3106	0.3577	0.6535	0.3858
3 Basic goods	0.2415	0.2479	0.1033	0.2666	0.2581	0.1148
4 Capital goods	0.1450	0.3990	0.4367	0.1854	0.4698	0.5018
5 Services	0.0000	0.0000	0.0243	0.0192	0.0253	0.0740
INDUSTRY BASED CLASSIFICATION						
INDUSTRY	RMOUTPUT	RMOUTPUT	RMOUTPUT	RTRADEY	RTRADEY	RTRADEY
1 Food, Beverages & Tobacco	0.0551	0.1164	0.0132	0.1547	0.2527	0.0456
2 Textiles and Leather	0.0035	0.0053	0.0108	0.1468	0.1863	0.2493
3 Wood, Cork and products	0.0009	0.0013	0.0114	0.0125	0.0054	0.0163
4 Paper and printing	0.1113	0.1666	0.1314	0.1194	0.1761	0.1360
5 Chemicals, petrol and coal	0.1721	0.2221	0.1880	0.1890	0.2664	0.2718
6 Non-metallic minerals	0.0265	0.0222	0.0237	0.0440	0.0380	0.0608
7 Basic metal industries	0.2247	0.1959	0.0942	0.2688	0.2099	0.1065
8 Metal products and machinery	0.1321	0.2690	0.3149	0.1729	0.3231	0.3735
9 Other manufacturing	0.0448	0.0794	0.1813	0.2067	0.4601	0.4650
10 Agriculture	0.0038	0.0102	0.0100	0.0206	0.0286	0.0370
11 Mining	1.4489	0.8583	0.9713	1.4960	1.2750	1.0279
12 Services	0.0000	0.0000	0.0243	0.0192	0.0253	0.0740
ACTIVITY BASED CLASSIFICATION						
SECTOR	RMOUTPUT	RMOUTPUT	RMOUTPUT	RTRADEY	RTRADEY	RTRADEY
1 Primary	0.0637	0.0873	0.0873	0.0818	0.1419	0.1419
2 Secondary	0.0876	0.1268	0.1268	0.1662	0.2494	0.2494
3 Tertiary	0.0000	0.0000	0.0243	0.0192	0.0253	0.0253
USE BASED CLASSIFICATION						
	RMOUTPUT	RMOUTPUT	RMOUTPUT	RTRADEY	RTRADEY	RTRADEY
0 Agriculture based	0.0266	0.0398	0.0182	0.1300	0.1822	0.1987
1 Chemicals based	0.1710	0.2157	0.1702	0.1910	0.2575	0.2367
2 Metal based	0.1587	0.2556	0.2904	0.2011	0.3008	0.3391
3 Miscellaneous	0.0475	0.0736	0.1210	0.1681	0.3185	0.2698
4 Land based	0.0637	0.0873	0.0761	0.0818	0.1419	0.1051
5 Service / human based	0.0000	0.0000	0.0243	0.0192	0.0253	0.0740
TRADE BASED CLASSIFICATION						
COMMODITY	RMOUTPUT	RMOUTPUT	RMOUTPUT	RTRADEY	RTRADEY	RTRADEY
0 EXPORTABLES	0.0053	0.0073	0.0174	0.0424	0.0559	0.0998
1 IMPORTABLES	0.0846	0.1083	0.1229	0.1024	0.1250	0.1543
2 NON-COMPETING	0.1663	0.3131	0.1582	0.1692	0.4197	0.1627

Source : Our calculations. Notes : RMOUTPUT is the ratio of imports to domestic production. RTRADEY is the ratio of trade (exports + imports) to domestic production.

TABLE 14 : The Import Penetration Ratio and the Trade Classification Index (53 industries)

INPUT BASED CLASSIFICATION							
COMMODITY GROUP	1979-80 MPENET	1984-85 MPENET	1991-92 MPENET	1979-80 TCI	1984-85 TCI	1991-92 TCI	
0 Consumer non-durables	0.0079	0.0155	0.0108	-0.02	-0.01	-0.05	
1 Consumer durables	0.0631	0.1051	0.1730	-0.07	-0.16	0.04	
2 Intermediate goods	0.0968	0.2380	0.1455	0.28	0.29	0.24	
3 Basic goods	0.1976	0.1825	0.0908	0.22	0.24	0.09	
4 Capital goods	0.1278	0.2944	0.2811	0.10	0.33	0.37	
5 Services	0.0000	0.0000	0.0240	-0.02	-0.03	-0.03	
INDUSTRY BASED CLASSIFICATION							
INDUSTRY	MPENET	MPENET	MPENET	TCI	TCI	TCI	
1 Food, Beverages & Tobacco	0.0582	0.1189	0.0135	-0.04	-0.02	-0.02	
2 Textiles and Leather	0.0041	0.0067	0.0170	-0.14	-0.18	-0.23	
3 Wood, Cork and products	0.0009	0.0013	0.0114	-0.01	0.00	0.01	
4 Paper and printing	0.0995	0.1440	0.1166	0.10	1.00	0.13	
5 Chemicals, petrol and coal	0.1405	0.1676	0.1404	0.16	0.18	0.10	
6 Non-metallic minerals	0.0236	0.0220	0.0241	0.01	0.01	-0.01	
7 Basic metal industries	0.1899	0.1645	0.0857	0.18	0.18	0.08	
8 Metal products and machinery	0.1161	0.2048	0.2174	0.09	0.22	0.26	
9 Other manufacturing	0.0507	0.1137	0.2020	-0.12	-0.30	-0.10	
10 Agriculture	0.0039	0.0102	0.0098	-0.01	-0.01	-0.02	
11 Mining	0.3227	0.4699	0.3618	1.40	0.44	0.91	
12 Services	0.0000	0.0000	0.0240	-0.02	-0.03	-0.03	
ACTIVITY BASED CLASSIFICATION							
SECTOR	MPENET	MPENET	MPENET	TCI	TCI	TCI	
1 Primary	0.0171	0.0520	0.0520	0.05	0.03	0.03	
2 Secondary	0.0777	0.1083	0.1083	0.01	0.02	0.02	
3 Tertiary	0.0000	0.0000	0.0240	-0.02	-0.03	-0.03	
USE BASED CLASSIFICATION							
	MPENET	MPENET	MPENET	TCI	TCI	TCI	
0 Agriculture based	0.0266	0.0403	0.0217	-0.08	-0.07	-0.16	
1 Chemicals based	0.1400	0.1629	0.1279	0.15	0.17	0.10	
2 Metal based	0.1373	0.1980	0.2009	0.12	0.21	0.24	
3 Miscellaneous	0.0497	0.0928	0.1281	-0.07	-0.17	-0.03	
4 Land based	0.0171	0.0520	0.0340	0.05	0.03	0.05	
5 Service / human based	0.0000	0.0000	0.0240	-0.02	-0.03	-0.03	
TRADE BASED CLASSIFICATION							
COMMODITY	MPENET	MPENET	MPENET	TCI	TCI	TCI	
0 EXPORTABLES	0.0057	0.0085	0.0191	-0.03	-0.04	-0.07	
1 IMPORTABLES	0.0721	0.0865	0.0964	0.07	0.09	0.09	
2 NON-COMPETING	0.0340	0.1435	0.0566	0.16	0.22	0.15	

Notes : MPENET is the import penetration ratio, defined as the ratio of imports to domestic availability. TCI is the trade classification index, defined as the ratio of net imports to domestic availability.

APPENDIX: CORRESPONDENCE BETWEEN I-O AND CSO CLASSIFICATIONS

OUR STUDY	1991-92	1979-80	CSO	ISIC	NIC	INDUSTRY CLASSIFICATIONS					
						USE	BSD	INPUT	TRADEACTIVITY		
CLASSIFICATION						D					
1	PADDY	PADDY	PADDY	1		4	0	10	0	P	
2	WHEAT	WHEAT	WHEAT	2		4	0	10	0	P	
3	OTHER CEREALS	OTHER CEREALS	OTH. CER. , JOWAR, BAJRA	3, 4, 5		4	0	10	2	P	
4	PULSES	PULSES	PULSES	6, 7		4	0	10	1	P	
5	SUGARCANE	SUGARCANE	SUGARCANE	8		4	0	10	2	P	
6	JUTE	JUTE	JUTE	10		4	0	10	0	P	
7	COTTON	COTTON	COTTON	11		4	0	10	0	P	
8	OTHER CROPS	TEA, COFFEE, RUBBER, O. C.	PLANTATION, O. CROPS	9,12, 13, 14, 15, 16, 17		4	0	10	0	P	
9	ANIMAL HUSBANDRY	ANIMAL HUSBANDRY	MILK ETC, ANIMAL HUSBANDRY	18, 19, 20		4	0	10	1	P	
10	FORESTRY & LOGGING	FORESTRY & LOGGING	FORESTRY & LOGGING	21		4	2	10	0	P	
11	FISHING	FISHING	FISHING	22		4	2	10	0	P	
12	COAL & LIGNITE	COAL & LIGNITE	COAL & LIGNITE	23	210	4	2	11	1	P	
13	CRUDE PETROLEUM, N. GAS	CRUDE PETROLEUM, N. GAS	CRUDE PETROLEUM, N. GAS	24	220	4	2	11	2	P	
14	IRON ORE	IRON ORE	IRON ORE	25	230	4	2	11	0	P	
15	OTHER MINERALS	O. METALLIC & N. METALLIC	OTHER MINERALS	26 - 32	230/290	4	2	11	2	P	
		MINERALS									
16	SUGAR	SUGAR	SUGAR	33	311/2	206	0	0	1	0	S
17	KHANDSARI BOORA	KHANDSARI BOORA	KHANDSARI BOORA	34	311/2	207	0	0	1	0	S
18	HYDROGENATED OIL	HYDROGENATED OIL	HYDROGENATED OIL	35	311/2	210	0	0	1	2	S
19	OTHER F & B	OTHER F & B	MISC. FOOD, EDIBLE OILS, TEA,	36 - 40	311/2/3	20-22, EXCEPT	0	0	1	0	S
						206/7/10					
20	COTTON TEXTILES	COTTON TEXTILES	COFFEE, O. BEVERAGES, TOBACCO COTTON TEXTILES, INCL. KHADI &	41, 42	321	23	0	0	2	0	S
			HANDLOOM								
21	WOOLEN & SILK TEXTILES	WOOLEN, ART SILK TEXTILES	WOOLEN TEXTILES, ART SILK ETC	43, 44, 45	321	24	1	0	2	0	S
22	JUTE/HEMP/MESTA	JUTE/HEMP/MESTA	JUTE/HEMP/MESTA	46	321	25	0	2	2	0	S
23	OTHER TEXTILES	OTHER TEXTILES	READYMADE, CARPETS, MISC.	47, 48, 49	321/322	26	0	0	2	0	S
24	WOOD & WOOD PRODUCTS	WOOD & WOOD PRODUCTS	WOOD & WOOD PRODUCTS	50, 51	331	27	0	2	3	0	S
25	PAPER/PAPER PRODUCTS	PAPER/PAPER PRODUCTS	PAPER ETC, PRINTING ETC	52, 53	341/2	28	0	0	4	1	S
26	LEATHER/L.PRODUCTS	LEATHER/L.PRODUCTS	LEATHER ETC, FOOTWEAR	54, 55	323/4	29	0	0	2	0	S
27	RUBBER PRODUCTS	RUBBER PRODUCTS	RUBBER PRODUCTS	56	355	300-302	0	2	5	0	S
28	PLASTIC PRODUCTS	PLASTIC PRODUCTS	PLASTIC PRODUCTS	57	356	303	1	2	5	1	S
29	PETROLEUM PRODUCTS	PETROLEUM PRODUCTS	PETROLEUM PRODUCTS	58	354	304/5	1	2	5	1	S
30	COAL TAR PRODUCTS	COAL TAR PRODUCTS	COAL TAR PRODUCTS	59	354	306/7	1	2	5	0	S
31	FERTILIZERS	FERTILIZERS	CHEMICAL FERTILIZERS	62	351	311	1	3	5	1	S
32	PESTICIDES	PESTICIDES	INSECTICIDES, ETC	63	351	311	1	3	5	1	S
33	SYNTH. FIBRE/RESIN	SYNTH. FIBRE/RESIN	SYNTH.RUBBER , FIBRES, ETC	67	3513	316	1	2	5	1	S
34	OTHER CHEMICALS	OTHER CHEMICALS	HEAVY CHEMICALS, DRUGS, SOAPS,	60, 61, 64-66, 68	351/2	31, EXCEPT 311 & 1	2		5	1	S
			COSMETICS			316					
35	CEMENT	CEMENT	CEMENT	70	369	324	3	3	6	1	S
36	OTH. NON. MET. MINERAL PRODUCTS	OTH. NON. MET. MINERAL PRODUCTS	OTH. N.M.MINERALS +	69	361/2/9	32, EXCEPT 324	3	2	6	0	S
			REFRACTORIES								
37	IRON & STEEL	IRON & STEEL	I & S, CASTINGS, FORGINGS ETC	72, 73, 74	371	330-332	2	3	7	1	S
38	NON FERROUS METALS	NON FERROUS METALS	NON FERROUS METALS	75	372	333-336, 339	2	3	7	1	S
39	TRACTORS & OTH. AGRI. MACH	TRACTORS & OTH. AGRI. MACH	TRACTORS & OTH. AGRI. MACH	78	382	350	2	4	8	1	S

40	MACHINE TOOLS	MACHINE TOOLS	MACHINE TOOLS	81	382	357	2	4	8	1	S
41	OTH. NON. ELECT. MACHINERY	OTH. NON. ELECT. MACHINERY	OTH. NON. ELECT. MACHINERY	79, 80, 82, 83	382	35, EXCEPT 350 & 2	4	8	8	1	S
42	ELECTRICAL MACHINERY	ELECTRICAL MACHINERY	ELECTRIC MOTORS, CABLES, WIRES,&c.	84-87, 89	383	357 360-363, 369	3	1	8	1	S
43	COMM & ELECTRONIC EQU	COMM & ELECTRONIC EQU	COMM & ELECTRONIC EQU	88, 90	3825/3832	364-367	2	4	8	1	S
44	RAIL EQUIPMENT	RAIL EQUIPMENT	RAIL EQUIPMENT	92	384	371-373	2	4	8	0	S
45	MOTOR VEHICLES	MOTOR VEHICLES	MOTOR VEHICLES	93	3843	374	2	1	8	0	S
46	OTHER TRANSPORT EQUIPMENT	OTHER TRANSPORT EQUIPMENT	SHIPS, M. CYCLES, OTHER	91, 94, 95, 96	384	370, 375-379	2	1	8	1	S
47	OTHER MANUFACTURING	OTHER MANUFACTURING	WATCHES ETC. & MISC.	76, 77, 97, 98	385/390	34, 38	3	1	9	0	S
48	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION	99			5	5	12	2	T
49	ELECTRICITY ETC	ELECTRICITY ETC	ELECTRICITY ETC	100, 101, 102	410/420	40-42	5	5	12	2	T
50	RAIL TRANS SERVICE	RAIL TRANS SERVICE	RAIL TRANS SERVICE	103			5	5	12	0	T
51	OTHER TRANS SERVICE	OTHER TRANS SERVICE	OTHER TRANS SERVICE	104			5	5	12	1	T
52	COMMUNICATION	COMMUNICATION	COMMUNICATION	106			5	5	12	2	T
53	TRADE & OTHER SERVICES	TRADE & OTHER SERVICES	TRADE & OTHER SERVICES	105, 107 - 115			5	5	12	0	T

Notes : (1) CSO is the classification according to the industries in the input-output tables constructed by the Central Statistical Organization, India

(2) NIC is the National Industrial Classification system followed in the Annual Survey of Industries, India

(3) The industrial classification schemes we employed are as follows :

Use Based	Input Based	Industry Based	Trade based (sixth plan)
0- Agriculture based	0 - Consumer non-durables	1- Food, Beverages & Tobacco	0- Exportables
1- Chemicals based	1 - Consumer durables	2- Textiles and Leather	1- Importables
2- Metal based	2 - Intermediate goods	3- Wood, Cork and products	2- Non-traded
3- Miscellaneous	3 - Basic goods	4- Paper and printing	
4- Land based	4 - Capital goods	5- Chemicals, petrol and coal	
5- Service / human based	5 - Services	6- Non-metallic minerals	
		7- Basic metal industries	
		8- Metal products and machinery	
		9- Other manufacturing	
		10- Agriculture	
		11- Mining	
		12- Services	