THE 1981-85 TARIFF CHANGES AND EFFECTIVE PROTECTION OF MANUFACTURING INDUSTRIES

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Abstract

As a result of a four-phase review of the tariff system undertaken by the Philippine government recently, a comprehensive but gradual revision of legal tariff rates has been scheduled over the period from January 1, 1981 to January 1, 1985 aimed at reducing the overall level of "effective protection" to domestic industries and making the rates more uniform across industries. This paper describes the nature of these tariff rates changes and analyzes their impact on effective protection rates in the manufacturing sector. While a significant improvement of the tariff system would be achieved by 1985, given the scheduled tariff protection and the dispersion of sectoral rationalization of the structure of tariffs. This would generally entail a further reduction in the protection of sectors producing consumer goods and raising those of the intermediate and capital goods sectors. Related trade and development issues are discussed in the concluding section of the paper, especially with reference to current industrial plans and policies.

Introduction

As previous empirical studies have amply documented,¹ tariff policy in the Philippines throughout most of the postwar period had been too strongly supportive of the development of import-substituting industries producing consumer goods at the finishing stages. Inevitably, however, high tariff rates on finished products and low rates on intermediate inputs and capital goods that characterized the country's tariff structure had the undesirable effects of inhibiting export growth and backward integration while promoting inefficiency in the use of domestic resources and slow growth of industrial employment. In the 1970s fiscal incentives granted by the Board of Investments under the Investment Incentives Act (RA 5186) and Export Incentive Act (RA 6135) and a more flexible exchange rate policy served to provide offsetting benefits to export-oriented firms. However, this did not fully neutralize the biases in the relative incentive structure due to the existing tariff system (cf. Bautista, Power and Associates, 1979).

As part of a larger program to "rationalize and restructure industry," a comprehensive review of the tariff system was undertaken by the government in 1979-80. It culminated in the issuance

¹See, among others, Power and Sicat (1971), ILO (1974) and Bautista, Power and Associates (1979).

of Executive Orders calling for gradual tariff changes over the 5-year period 1981-85 that we intended to substantially reduce the distortions in the tariff structure by the end of the period. The Tariff Commission has published recently the *Tariff and Customs Code 1982* containing a consolidated schedule of the changes in tariff rates, which actually began to be implemented on January 1, 1981.

The primary objective of this paper is to assess the impact of the on-going tariff reform on "effective protection rates" in the manufacturing sector, assuming that the scheduled tariff rate changes will be fully implemented. It is well recognized that tariffs cause a divergence between domestic and international prices and hence encourage the movement of resources into import-substituting industries rather than into export industries. As a measure of relative incentives, effective protection rates (EPRs) – or rates of protection of value added, defined as the proportionate difference between domestic and foreign value added - are more meaningful than actual (or legal) tariff rates and nominal tariff rates, representing the excess of the domestic price of a product over its international price, since it is value added rather than the value of the product that is contributed by the domestic activity being protected. More specifically, EPRs include the subsidy to domestic producers from the protection of outputs and the penalty from the protection of inputs.

Section 2 of this paper gives a comparison of tariff levels in the Philippines relative to other ASEAN countries in the late 1970s, and then describes the nature of Philippine tariff rate changes scheduled between 1980 and 1985. In Section 3 the method of estimating sectoral EPRs in manufacturing for the two years is described; the resulting estimates are presented and evaluated in Section 4. Related trade and development issues, especially with reference to current industrial policies and plans, are discussed in the concluding section of this paper.

The Tariff Reform

That legal tariff rates in the Philippines were generally higher than those of other ASEAN countries in the late seventies is evident from Table 1. Based on overall simple averages, the Philippines ranked highest (44.2%), followed by Indonesia (33.0%) and Thailand (29.4%), with Malaysia (15.3%) and Singapore (5.6%) having much lower average tariff levels. Particularly noteworthy are the higher Philippine tariff rates, compared to those in the other ASEAN countries, for manufactured products (PSCC 5-8), this is markedly so for the commodity categories consisting largely of finished consumer products (PSSC 6 and 8).

Table 1. Comparison of Simple Averages of Tariff Ratesin Asean Countries by PSCC Grouping, 1978(in per cent)

Gro (PS	up CC) Category	Indonesia	Malaysia	Philippines	Singapore	Thailand	ASEAN
0	Food and live animals chiefly						
	for food	42.9	10.7	67.2	1.3	42.6	33.0
1	Beverages and tobacco	46.0	346.8	82.5	458.2	62.4	199.2
1 2 3 4 5	Crude materials, inedible except						
	fuels	14.2	2.8	27.4	0	18.4	12.6
3	Mineral fuels, lubricants and						
4	related materials	15.2	7.1	14.9	9.0	14.2	12.1
4	Animal and vegetable oils, fats						
	and waxes	30.0	0.3	43,9	nil	24.7	19.8
5	Chemicals and related products, n.e.s.	26.8	19.2	41.1	37.2	28.1	30.5
6	Manufactured goods classified						
	chiefly by materials	37.9	14.9	52.0	0.4	32,0	27.4
7	Machinery and transport equipment	18.0	10.7	23.0	1.4	18.0	14.2
8	Miscellaneous manufactured articles	49.9	19.0	68.9	3.4	37.8	35.8
9	Commodities and transaction not						
	classified elsewhere in the PSCC	21.7	7.7	62.5	0	20.8	22.5
	Overall	33.0	15.3	44.2	5.6	29.4	25.5

SOURCE: Tariff Commission (1979).

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The distribution of tariff rates in the Philippines by BTN product category is shown in Tables 2 and 3 for 1980 (before the tariff reform was started) and for 1985 (after its completion). The first point to note is that the highest tariff levels of 70% and 100% would no longer apply and that a new rate of 5% would be levied in 1985 on 30 items, mainly from the categories of animal and common metal products (BTN Sections I and XV). In terms of the overall average tariff rate, a much lower level would prevail in 1985 compared to 1980 (27.9% vs. 43.1%). Moreover, the degree of dispersion would also be lower, measured by either the standard deviation or the coefficient of variation.

Indeed, the average tariff rates for all but one² of the 21 commodity categories are scheduled to decline from 1980 to 1985 implying a general lowering of tariff barriers. Some of the more significant tariff reductions, i.e., by at least 25 percentage points, would apply to: animal and animal derivatives (BTN I); food, beverages and tobacco (IV); furs, hides and leather products (VIII), footwear and miscellaneous products (XII), precious stones and metals (XIV); arms and numetiars (XIX); and furnitures, toys and miscellaneous products (XX). This is due in large part to the elimination of the peak rates (70% and 100%) which were levied earlier for many items under these BTN categories. Since most of these items would continue to have the highest tariff rate (50%) in 1985, the above-mentioned BTN categories display the highest average tariff levels both before and after the tariff reform.

Estimating Effective Protection Rates

Actual measures of effective protection that have appeared in the empirical literature vary according to the purposes for which they are used. Differences in estimation methods and underlying assumptions imply noncomparability of EPR estimates derived by different investigators.³ In some studies assessment is made of the separate influences of different policy instruments on the effective protection rate. On such basis Tan (1979) has concluded that in 1974 the tariff system was the most important source of effective protection to domestic manufacturing industries, while indirect taxes and BOI fiscal incentives were relatively minor instruments affecting insubstantially the overall pattern of sectoral effective protection rates.

²BTN Section XXI (Art and antiques) would retain the uniform tariff rate of 10% for the six items under this product category.

³This is well illustrated by "the lack of harmony in the results" obtained in four independent studies of effective protection of manufacturing in Peninsular Malaysia for the same years (cf. Shepherd, (1980.)

			Т	ARI	FFR	ΑΤΕ	S		Number	14.	Standard	Coefficient of
	BIN Section -	10%	20%	30%	40%	50%	70%	100%	of Items	mean	Deviation	Variation
I	Animals, and animal derivatives	7	1	3	0	7	7 5	17	40	64.5	35.1	.545
		(17.5)	(2.5)	(7.5)	(0.0)	(17.5)	(12.5)	(42.5)	(100.00)		
II	Plant products	3	13	6	1	11	21	18	73	59.3	30.1	.507
		(4.1)	(17.8)	(8.2)	(1.4)	(15.1)	(28.8)	(24.7)	(100.0)			
III	Fats and edible oils	2	0	6	1	6	2	3	20	49.0	26.4	.540
		(10.0)	(0.0)	(30.0)	(5.0)	(30.0)	(10.0)	(15.0)	(100.0)			
IV	Food, beverage, and tobacco	6	5	6	0	4	6	41	68	74.4	34.5	464
		(8.8)	(7.4)	(8.8)	(0.0)	(5.9)	(8.8)	(60.3)	(100.0)			
V	Minerals and fuels	33	18	1	0	8	0	0	60	18.7	13.2	.708
		(55.0)	(30.0)	(1.7)	(0.0)	(13.3)	(0.0)	(0.0)	(100.0)			
VI	Nonorganic and organic chemicals	87	61	21	0	25	3	5	202	23.2	18.7	.808
		(43.1)	(30.2)	(10.4)	(0.0)	(12.4)	(1.5)	(2.5)	(100.0)			
VII	Plastic and rubber products	0	8	14	0	15	1	0	38	36.8	13.2	.358
	-	(0.0)	(21.0)	(36,8)	(0.0)	(39.5)	(2.6)	(0.0)	(100.0)			
VIII	Furs, hides, and leather products	2	1	0	0	3	8	7	21	69.1	28.6	.414
	, , , , , , , , , , , , , , , , , , ,	(9.5)	(4.8)	(0.0)	(00)	(14.3)	(38.1)	(33.3)	(100.0)			
IX	Wood and cork products	6	4	5	0	9	5	8	37	51.1	31.7	.620
	-	(16.2)	(10.8)	(13.5)	(0.0)	(24.3)	(13.5)	(21.6)	(100.0)			
Х	Pulp, paper and paper products	9	2	14	0	8	3	17	53	54.0	34.9	.647
	*/ * * · ·	(17.0)	(3.8)	(26.4)	(0.0)	(15.1)	(5.7)	(32.1)	(100.0)			
XI	Textiles and derivatives	12	13	25	4	18	26	35	133	56.5	31.7	.561
		(9.0)	(9.8)	(18.8)	(3.0)	(13.5)	(19.6)	(26.3)	(100.0)			

Table 2. Distribution of Tariff Rates, 1980

XII	Footwear and miscellaneous											
	products	0	2	0	0	3	6	13	24	79.6	25.6	.321
		(0.0)	(8.3)	(0.0)	(0.0)	(12.5)	(25,0)	(54.2)	(100.0)			
XII	Glass and ceramic products	4	12	11	2	15	9	9	62	47.9	27.7	.579
		(6.5)	(19.4)	(17.7)	(3.2)	(24.2)	(14.5)	(14.5)	(100.0)			
XIV	Precious stones and metals	1	3	0	0	0	0	15	19	82.6	33.7	.408
		(5.3)	(15.8)	(0.0)	(0.0)	(0.0)	(0.0)	(78.9)	(100.0)			
XV	Common metals and products	38	31	43	1	29	13	7	162	33.3	22.7	.682
		(23.5)	(19.1)	(26.5)	(0.6)	(17.9)	(8.0)	(4.3)	(100.0)			
XVI	Machinery	59	11	32	0	27	5	8	142	30.1	24.1	.802
		(41.5)	(7.8)	(22.5)	(0.0)	(19.0)	(3.5)	(5.6)	(100.0)			
XVII	Transportation equipment	25	3	10	0	1	3	3	45	26.0	25.6	.985
		(55.5)	(6.7)	(22.2)	(0.0)	(2.2)	(6.7)	(6.7)	(100.0)			
XVIII	Precision instruments and other											
	instruments	20	14	16	2	7	3	1	61	26.6	18.6	.701
		(32.8	(23.0)	(26.2)	(0.0)	(11.5)	(4.9)	(1.6)	(100.0)			
XIX	Arms and munitions	0	0	0	0	0	4	3	7	82.9	14.9	.179
		(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(57.1)	(42.9)	(100.0)			
XX	Furniture, toys, and											
	miscellaneous products	2	4	6	0	7	3	28	50	72.8	33.0	.453
		(4.0)	(8.0)	(12.0)	(0.0)	(14.0)	(6.0)	(56.0)	(100.0)			
XXI	Arts and antiques	6	0	0	0	0	0	0	6	10.0	0.0	.000
		(100.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(100.0)			
	General Tariff Schedule	322	206	219	9	203	126	238	1323	43.11	32.20	0.747
		(24.3)	(15.6)	(16.6)	(0.7)	(15.3)	(9.5)	(18.0)	(100.0)			

Source: Tariff and Customs Code of 1978. Note: Figures in parentheses are percentages of total number of items under each BTN section.

	ρτη οργτιών		Tariff Rate					Number	Mean	Standard	Coefficient of
	BTN SECTION	5%	10%	20%	3 0%	40%	50%	of Items		Deviation	variation
I	Animals, and animal derivatives	17	11	1	3	1	32	65	29.9	20.8	.694
		(26.2)	(16.9)	(1.5)	(4.6)	(1.5)	(49.3)	(100.0)			
II	Plant products	1	8	28	12	2	63	114	37.2	15.2	.408
		(0.9)	(7.0)	(24.6)	(10.5)	(1.7)	(55.3)	(100.0)			
III	Fats and edible oils	0	4	12	6	11	3	36	29.2	11.9	.407
		(0.)	(11.1)	(33,3)	(16.7)	(30.6)	(8.3)	(100.0)			
IV	Food, beverage, and tobacco	2	16	10	12	6	65	111	38.0	15.9	.418
		(1.8)	(14.4)	(9.0)	(10.8)	(5.4)	(58.6)	(100.0)			
V	Minerals and fuels	0	60	29	9	1	0	99	15.1	7.0	.466
		(0.0)	(60.6)	(29.3)	(9.1)	(1.0)	(0.0)	(100.0)			
VI	Nonorganic and organic chemicals	0	143	81	33	5	11	273	17.6	10.1	.575
		(0.0)	(52.4)	(29.7)	(12.1)	(1.8)	(4.0)	(100.0)			
VII	Plastic and rubber products	0	13	57	67	2	12	151	26.2	9,5	.364
		(0.0)	(8.6)	(37.7)	(44.4)	(1.3)	(8.0)	(100.0)			
VIII	Furs, hides, and leather products	0	11	1	12	1	11	36	30.00	15.81	.527
		(0.0)	(30,5)	(2.8)	(33.3)	(2.8)	(30.6)	(100.0)			
IX	Wood and cork products	0	12	10	8	6	13	49	29.6	15.4	5.20
		(0.0)	(24.5)	(20.4)	(16.3)	(12.3)	(26, 5)	(100.0)			
Х	Pulp, paper and paper products	0	18	23	16	33	14	104	30.2	13,3	.440
		(0.0)	(17.3)	(22.1)	(15.4)	(31.7)	(13.5)	(100.0)			
XI	Textiles and derivatives	0	5	48	52	60	137	302	39.1	11.9	.303
		(0.0)	(1.7)	(15.9)	(17.2)	(19.9)	(45.3)	(100.0)			

Table 3. Distribution of Tariff Rates, 1985

	products	0	0	2	1	1	20	24	46.25	9.04	.195
		(0.0)	(0.0)	(8.3)	(4.2)	(4.2)	(83.3)	(100.0)			
XIII	Glass and ceramic products	0	7	11	15	11	21	65	34.3	13.7	.399
		(0.0)	(10.8)	(16.9)	(23.1)	(16.9)	(32.3)	(100.0)			
XIV	Precious stones and metals	0	4	1	0	0	23	28	43.2	14.6	.339
		(0.0)	(14.3)	(3.6)	(0.0)	(0.0)	(82.1)	(100.0)			
XV	Common metals and products	10	83	56	67	14	22	252	22.5	12.8	.568
		(4.0)	(32.9)	(22.2)	(26.6)	(5.6)	(8.7)	(100.0)			
XVI	Machinery	0	78	132	104	6	35	355	24.0	11.4	.475
		(0.0)	(22.0)	(37.2)	(29.3)	(1.7)	(9.8)	(100.0)			
XVII	Transportation equipment	0	35	7	13	0	16	71	23.7	16.0	.678
		(0.0)	(49.3)	(9.90)	(18.3)	(0.0)	(22.5)	(100.0)			
XVIII	Precision instruments and other										
	instruments	0	41	25	20	2	11	99	21.6	12.9	.598
		(0.0)	(41.4)	(25.3)	(20.2)	(2.0)	(11.1)	(100.0)			
XIX	Arms and munitions	0	0	0	1	0	8	9	47.8	6.7	.140
		(0.0)	(0.0)	(0.0)	(11.1)	(0.0)	(88.9)	(100.0)			
XX	Furniture, toys, and miscellaneous										
	projects	0	2	6	8	3	27	46	40.2	12.9	.322
		(0.0)	(4.4)	(13.0)	(17.4)	(6.5)	(58.7)	(100.0)			
XXI	Arts and antiques	0	6	0	0	0	0	6	10.0	0.0	.000
		(0.0)	(100.0)	(0.0)	(0.0)	(0.0)	(0.0)	(100.0)			
	General Tariff Schedule	30	557	540	459	165	544	2295	27.9	15.0	.539
		(1.3)	(24.3)	(23.5)	(20.0)	(7.2)	(23.7)	(100.0)			

XII Footwear and miscellaneous

Source: <u>Tariff and Customs Code 1982.</u> Note: Figures in parentheses are percentages of total number of items under each BTN section.

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In the present study we are interested in the assessment of how the scheduled tariff changes from 1981 to 1985 would affect relative incentives for manufacturing industries, abstracting from any changes that might be implemented in other policy areas. While tariffs are not the only determinant of effective protection, the fact that other policy instruments such as indirect taxes and fiscal incentives are currently being reviewed and have not assumed yet any definite shape for 1985 would seem to justify their omission in the EPR calculation for present purposes. Export taxes are also not incorporated in our EPR measure in view of the widespread exemption of industries in the past unfavorably affected by depressed export prices (as what happened to many export commodities during 1980-81). More appropriately, therefore, the effective protection measure used in this study can be called the "effective tariff protection rate" (ETPR).

The wedge between foreign (or free trade) and domestic prices created by tariffs is evident in the following representation of foreign and domestic value added per unit output $(v_j \text{ and } v'_j, \text{ respectively})$:

(1)
$$v_j = 1 - \sum_i a_{ij}, v_j' = (1 + t_j) - \sum_i a_{ij} (1 + t_i)$$

where the product price is taken to be unity, the a_{ij} 's are the input coefficients in foreign prices, and t_i and t_j are *ad valorem* tariff rates on material input i and and output j, respectively. Note that tariff protection is redundant for exportables, so that $t_j = 0$ for such commodities.

Equation (1) embodies the standard assumptions in the effective protection literature that: (1) inputs in production are not substitutable; (2) production is carried out under constant cost conditions: (3) foreign supply of importables is perfectly elastic; and (4) the general equilibrium repercussions of tariffs are negligible.⁴

By definition, the effective protection rate for the activity producing output j is given by

(2)
$$E_j = \frac{v'_i - v_j}{v_j}$$

Substituting (1) into (2) yields, after simplification, the familiar expression

(3)
$$E_{j} = \frac{t_{j} - \sum_{i} a_{ij} t_{i}}{1 - \sum_{i} a_{ij}}$$

 $^{^{4}}$ Implying no significant induced changes in technology, factor prices, final demand and related variables.

In empirical measurement of effective protection, "free trade" input coefficients are hard to come by; published inputoutput tables normally contain technical coefficient (a'_{ij}) expressed in domestic prices. Using the latter coefficients, we can modify (1) as follows:

(4)
$$v_j = \frac{1}{1+t_j} - \sum_i \frac{a'_{ij}}{1+t_i}$$
, $v'_j = 11 - \sum_i a'_{ij}$

and hence

(5)
$$E_j = \frac{1 - \sum_i a'_{ij}}{(\frac{1}{1 + t_j} - \sum_i \frac{a'_{ij}}{1 + t_j})} - 1$$

Some of the implications of (3) or (5) are that: (1) other things the same, a higher E_j results from a higher t_j and lower t_i 's; (2) if tariff rates are uniform (i.e., $t_i = t_j$), then $E_j = t_j$; and (3) if value added is a small proportion of the product price (i.e., $\sum_{i}^{3} a_{ij}$ is high), a low t_j combined with lower t_i 's can lead to a very high E_i .

Equation (5) was used in the calculation of effective protection rates for manufacturing industries in the present study. Nontradable inputs were treated as part of value added, so the a_{ij} 's used pertain only to the tradable inputs. The technical coefficients from the 120 x 120 input-output table for 1974 prepared by the National Census and Statistics Office (NCSO) were utilized, after adjusting for relative price changes between 1974 and 1980.^{5,6} Tariff rates for 1980 were drawn from the *Tariff and Customs Code 1978*, with appropriate adjustments for some changes in tariff levels during 1979-80; on the other hand, tariff rates for 1985 were extracted from the recently published *Tariff and Customs Code 1982*.

Sectoral ETPR Estimates in Manufacturing

Table 4 presents the estimated effective protection rates for 67 manufacturing industries⁷ for 1980 and 1985. It would appear that the tariff reform, if implemented fully, will significantly

^bA less disagregative (63×63) input-output table for 1978 is available from the NCSO, but which was derived also from the 1974 input-output table with price adjustment.

 $^{^{6}}$ Two Central Bank wholesale price indices were used: the home consumption WPI to adjust for input price changes and the domestic production WPI to adjust for output price changes.

⁷Corresponding to the number of sectors within manufacturing distinguished in the NCSO's 120 x 120 input-output table for 1974.

I-O No.	SECTOR	1980	1985
26	Meat products	809.5	178.4
27	Dairy products	62.3	30.4
28	Rice milling	97.8	98,0
29	Sugar milling and refining	- 1.1	- 0.9
30	Processed fruits and vegetables	223.0	72.4
31	Processed fish and other seafoods	872.9	215.9
32	Other grain mill products	176.7	74.9
33	Bakery products	127.1	44.2
34	Cocoa, chocolate and sugar confectionary	71.2	30,1
35	Desiccated coconut products	- 3.9	- 2.6
36	Other manufactured foods	94.8	36.7
37	Liquors, wines, brewery and malt products	84.7	44.3
38	Soft drinks and carbonated water	127.5	69.5
39	Tobacco products	61.8	29.7
40	Textile and knitting mill products	61.4	36.0
41	Cordage, twine and other textile products	- 9.3	- 7.4
42	Footwear	- 3.1	- 2.2
43	Other wearing apparel	-10.5	- 7.8
44	Other made-up textile goods	93.3	48.0
45	Lumber	- 1.8	1.0
46	Plywood and veneer plants	-18.1	-13.4
47	Furniture and fixtures	-5.2	- 4.0
48	Other wood, cane and cork products	- 4.6	- 3.4
49	Pulp, paper and paperboard manufacturing	47.5	29.3
5 0	Articles of pulp, paper and paperboard	158.5	58.1
51	Newspaper, periodicals, books and pam-		
	phlets	27.7	17.5
52	Printing, bookbinding and other allied pro-		
	ducts	51.5	28.6
53	Leather and leather products except for		
	footwear and other wearing apparel	-10.7	- 8.4
54	Rubber footwear	6.0	1.7
55	Tires, tire vulcanizing and recapping	54.0	39.5
56	Other rubber products	26.2	17.9
57	Basic industrial chemicals	14.0	12.8
58	Coconut oil	- 0.7	- 0.6
59	Other oils and fats	64.9	33.5
60	Fertilizer and lime	23.2	16.7
61	Paints, varnishes and related compounds	39.5	26.3
62	Plastic materials	44.3	23.2
63	Medicinal and pharmaceutical preparations	0.1	1.5
64	Soap and other washing and cleansing com-	98.5	51.2
65	Other chemical products	47.0	34.3
66	Petroleum refineries and other petroleum	71.0	04.0
	products	12.4	12.6
67	Hydraulic cement	-10.1	- 8,9

Table 4. Estimates of Effective Protection Rates in
Philippine Manufacturing, 1980 and 1985
(in per cent)

Table 4	(Continu	ued)
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I-O No.	SECTOR	1980	1985
68	Structural clay and concrete products	69.4	56.7
69	Glass and glass products	54.6	41.7
70	Other non-metallic mineral products	54.3	36.7
71	Basic ferrous metal industries	19.1	12.6
72	Basic non-ferrous metal industries	15.3	16.7
73	Cutlery, handtools and general hardware	52.0	55.'
74	Fabricated structural metal products	-10.3	- 8.2
75	Heating apparatus, lighting and plumbing fixtures	83.6	63 6
76	Other fabricated metal products	68.4	50
77	Tractors and other agricultural machinery	00.1	00
	and equipment	27.0	13.
78	Special industry machinery	16.3	21 (
79	General industry machinery and equipment	17.8	95.0
80	Office, computing and accounting machines	19.7	15
	(excluding electrical)	12.1	10.
81	Electrical industrial machinery and appa-		
	ratus	38.5	35.
82	Communication equipment excluding radio,		
		47.9	10.
83	Batteries	84.9	13.
84	Electric lamps, fixtures, wires and wiring devices	25.5	16.
85	Household radio, TV receiving sets, phonos	35.5	12.
86	Refrigeration and air-conditioning equip-		
	ment	76.4	44.
87	Other household electrical appliances and		
	wares	77.9	34.
88	Motor vehicles, engines, bodies and parts	31.9	26.
89	Repair of motor vehicles (nontradable)	—	-
90	Ship building and repairing	7.0	15.
91	Other transport equipment	42.1	38.
92	Miscellaneous manufactures	90.7	45.'
	Average	70.3	31.
	Standard Deviation	144.3	37.'
	Coefficient of Variation	2,05	1.5

lower the average level of effective protection to domestic industries from 69% in 1980 to 30% in 1985. At the same time, disparities in ETPRs across industries will be reduced substantially, based on a comparison of the computed values of either the standard deviation or the coefficient of variation. These general findings would conform to the declared objective of tariff reform that ajdustments will be made to reduce the overall level of protection to domestic industries and to even out the spread in protection rates among industry sectors.

Examining individual sector ETPR changes between 1980 and 1985, one finds a prepondence of decreasing levels with only 8 sectors⁸ showing increases in ETPR (some of which appear insignificant), as a result of the tariff reform.

The pattern of sectoral ETPR for 1980 is similar to that obtained earlier by Tan (1979) for 1974. This is not surprising in view of the dominance of tariffs vis-à-vis other policy instruments affecting relative incentives (as pointed out above) and the fact that there had not been much significant tariff rate changes between 1974 and 1980.

By end-use category, consumer goods industries on the whole continued to be highly protected in 1980 while industries producing capital goods, intermediate goods and inputs-into-construction were effectively being discriminated against, as shown in Table 5. Even after the tariff reform in 1985, however, the same direction of bias is evident from the table, notwithstanding the general reduction in the average effective protection levels for the four categories of industries While the consumer goods sectors are seen to have the largest decline in average ETPR from 1980 to 1985, they would continue to enjoy the highest tariff protection, having an average ETPR about 12 percentage points above the average for all manufacturing.

At the other extreme, intermediate goods industries, which already were being accorded generally low tariff protection in 1980, face substantial ETPR cuts that will reduce their average effective protection rate to about one half its 1980 value and 17 percentage points below the average for all manufacturing. The capital goods sectors' average ETPR would also decrease, although not drastically, which direction again is opposite to what is warranted by a more uniform ETPR structure.

Therefore, while a significant improvement of the tariff system would be achieved by 1985 in terms of reducing the overall ETPR and the dispersion of sectoral rates around the mean value, there will still be room for additional rationalization of the structure of tariffs. This would generally entail a further reduction

⁸These are I-0 sectors, 63, 66, 72, 73, 78, 79, 80 and 90 (cf. Table 4).

Sectors Producing	1980	1985
Consumption goods	115.0	43.2
Intermediate goods	26.8	14.0
Inputs-into-construction	31.5	24.7
Capital goods	23.9	19.6
All manufacturing	70.3	31.0

Table 5: Average Effective Protection Rates by End-Use Category, 1980 and 1985 (in per cent)

Source: Appendix Table 1-4.

in the protection of sectors producing consumer goods and raising those of the intermediate (excluding inputs-into-construction) and capital goods sectors.

It should be noted that, within each of these industry categories, there are also disparities in the estimated effective protection rates for 1985. As shown in Appendix Tables 1-4, sectoral ETPR differences are largest among the consumer and intermediate goods sectors. This is due in large part to the composition of these two industrial groupings, which include both export-oriented industries⁹ with low or negative ETPRs and import-substituting industries characterized by markedly higher ETPRs.

A final observation is that, even after the tariff reform, a number of industries would continue to be heavily protected. The extreme examples are meat products and processed fish and other seafoods with estimated ETPRs of 178% and 216%, respectively, for 1975. Post-1985 tariff revisions need to be directed to such industries if excessive profits and/or low levels of efficiency, which are associated with high ETPRs are to be discouraged.

Concluding Remarks

As pointed out earlier, the recent tariff revisions are part of a larger effort to improve the existing policy climate and make it more conducive to the efficient development of domestic manufacturing industries. The above findings point to a relatively substantial liberalization of tariff policy by 1985, given the scheduled tariff changes, in terms of the overall reduction in effective pro-

⁹Such as footwear, other wearing apparel, furniture and fixtures, certain wood products and other leader products within the consumer goods category, and sugar milling, dessicated coconut, cordage and coconut oil within the intermediate goods category.

tection and the narrowing of the disparities in sectoral rates. Of course, it remains to be seen whether the tariff changes will be fully implemented.

Also, it would appear that there is room for further improvements, i.e., in lowering the tariff rates on consumption goods and raising those on intermediate products and capital goods, if the objective is to confer equal levels of effective protection to manufacturing industries. Apropos this, two points maybe noted: 1) equal effective tariff protection rates should ideally be sought not only for manufacturing industries but for all tradable goods producing industries; and 2) other policy instruments need to provide offsetting subsidies to export industries to the extent of the nominal protection to domestic sales accorded by the uniform tariff structure. Protection policy (a more appropriate term is "promotion policy") in the foregoing sense is neutral in that it does not distort relative prices. No discrimination arises other than that which comes naturally out of the price system. According to standard economic theory, this would not only allocate resources to their most efficient uses but also distribute goods such that consumer welfare is maximized for any given distribution of income.

A distorted tariff structure could of course serve certain objectives; it could expand output in particular industries, or it could redistribute income, or it could improve the balance of payments. But even these objectives can be achieved by other means that do not have the undesirable side effects of misallocating resources and limiting consumption. Providing direct subsidies to industries could stimulate production without restricting consumption; for redistributing income within a country direct taxes and transfers are superior to tariffs;¹⁰ while balance of payments problems are better tackled through monetary and fiscal policies. In general, it is desirable to address policy instruments to problems that can be dealt with in the most direct manner.

Producers tend to prefer tariffs to subsidies. Perhaps the latter's visibility makes them less attractive; also, direct subsidies are somehow regarded as incompatible with the ethic of private enterprise but the implicit subsidy from tariff protection apparently is not. But it is precisely the fact subsidies are visible to the general public and represent a direct cost to the government that may prevent the perpetuation of a protection policy heavily biased toward certain industries.

¹⁰A differential tariff structure is also not needed as a means of taxing luxury goods. A more efficient instrument would be a set of luxury consumption taxes applicable to both imported and domestically produced goods.

Any kind of policy reform leads to differential gains and losses across both producing and consuming sectors. Resistance to a movement for a more neutral tariff system would come from producer interests in the affected industries, i.e., those being faced with a significant reduction in effective protection rates, which in view of the protracted nature of the country's import substitution policies (cf. Baldwin, 1976) might prove to be more politically powerful than producer and consumer interests in general.

Failing to stem the tide of tariff reform, vested interests could focus their attention on nontariff barriers, especially in the area of import licensing, which also lead to a divergence between foreign and domestic prices. It is however a declared policy of the government that import restrictions will be liberalized as part of the "industrial structural adjustment" program.^{11,12} To the extent that the program is faithfully implemented,¹³ domestic industries can be expected to be reoriented "toward more efficient use of resources which will make them more competitive by international standards and allow them to develop in line with the country's comparative advantage".¹⁴

The important point should be made that, in the above context, government is part of "producer interests". The last few years have witnessed a sharply increased participation of public corporations and their subsidiaries in manufacturing activities, and this is bound to increase with the active promotion of the so-called "eleven major industrial projects" (11 MIPs, for short). The latter represent a set of large-scale, capital-intensive projects expected to be established during 1983-87 "to provide the basic industrial infrastructure." About 12.5% of the 11 MIPs' total funding of \$4 billion is estimated to come from direct government

¹¹From the original list of 1,300 banned import items, 264 were removed in 1981. "Another 610 were taken off the list of last month (February 1982) and the plan is to abolish the whole list by next year" (Times Journal, March 4, 1982 issue).

¹²The program also includes other policy measures relating to export promotion, investment incentives and administration and revitalization of specific industries.

¹³That there is actual resistance of the scheduled implementation of some aspects of the trade liberalization component of the program is clear from the reported (cf. Times Journal issue cited earlier) reimposition of restrictions on imports of certain durable consumer goods, mostly household appliances, two weeks after a CB circular was issued removing the 24 items involved from the list of banned imports. According to the news reports, "the sudden policy shift was in reaction to strong criticism from local household appliance manufacturers."

 $^{^{14}}$ Quoted from the Five-Year Philippine Development Plan, 1978-1982 (Updated for 1981 and 1982); p. 12

budgetary appropriations; equity contributions of the National Development Company are being provided to, among others, the \$250 million copper smelter (34.4%) and the \$336 million phosphatic fertilizer plant (60%).

It is intended that the 11 MIPs "will produce vital commodities and intermediate inputs at internationally competitive prices"¹⁵ Given this objective, it would seem necessary that heavy protection from competing imports via increased tariffs and other import barriers be avoided;¹⁶ indeed this consideration should be explicitly taken into account in the feasibility studies in order to establish *true* economic viability of the projects.¹⁷ If this is not done, the country faces the likely prospect of being presented with huge white elephants.

References

- Baldwin, R.E., Foreign Trade Regimes and Economic Development; The Philippines (New York: NBER, Inc., 1975).
- Bautista, R.M., J.H. Power and Associates, Industrial Promotion Policies in the Philippines (Metro Manila: Philippine Institute for Development Studies, (1979).
- International Labour Office, Sharing in Development in the Philippines (Geneva: ILO, 1974).
- Power, J.H. and G.P. Sicat The Philippines: Industrialization and Trade Policies (Oxford: Oxford University Press, 1971).
- Shepherd, G., "Policies to Promote Industries," in K. Young, W. Bussink and P. Hasan, Malaysia: Growth and Equity in a Multiracial Society (Baltimore: Johns Hopkins University Press, 1980).
- Tan, N.A., "The Structure of Protection and Resource Flows in the Philippines", in R. Bautista, J. Power and Associates (1979).
- Tariff Commission, Tariff Profiles in ASEAN (Metro Manila; NEDA, 1979).

¹⁵Quoted from the Five-Year Philippine Development Plan 1978-1982 (Updated for 1981 and 1982), p. 13.

¹⁶If, on infant industry grounds, some protection (the more appropriate term is *promotion*) is warranted, it should apply in both domestic and foreign markets, i.e., the incentives should not favor domestic sales over exporting, and only over a specified period of time.

 $^{^{17}}$ It is to be noted that independent researchers do not have access to the feasibility studies of the 11 MIPs, a situation not contributing to an informed public discussion.

Appendix Tabl	e 1 :	EPR	Estimates	for	Consumption
Goods	Secto	ors in	Manufact	urin	ıg (%)

I·O No.	SECTOR	1980	1985
26	Meat products	809.48	178.45
27	Dairy products	62.32	30.38
28	Rice milling	97.85	97.96
30	Processed Fruits and vegetables	223.03	72.41
31	Processed fish and other seafoods	872,89	215.89
32	Other grain mill products	176.72	74.89
33	Bakery products	127.09	44.17
34	Cocoa, chocolate and sugar confectionary	71.18	30,13
36	Other manufactured foods	94.75	36.66
37	Liquors, wines, brewery and malt products	84.73	44.33
38	Soft drinks and carbonated water	127.52	69.50
39	Tobacco products	61.78	29.67
40	Textile and knitting mill products	61.37	36.03
42	Footwear	3.13	- 2.20
43	Other wearing apparel	10.49	- 7.80
44	Other made-up textile goods	93.28	48.00
47	Furniture and fixtures	- 5.19	- 4.04
48	Other wood, cane and cork products	- 4.62	- 3.37
50	Articles of pulp, paper and paperboard	158.49	58.14
51	Newspaper, periodicals, books and pam- phets	27 70	17 53
52	Printing, bookbinding and other allied in-	51 51	28.55
53	Leather and leather products except foot-	-10.70	- 840
54	Rubber footwear	6.00	1 69
55	Tires tire vulcanizing and recomping	53.97	39.53
63	Medicinal and pharmaceutical preparations	0.06	1 52
64	Soap and other washing and cleansing com-	0.00	51.00
0 =	pounds	98.48	51.22
86 86	Refrigeration and air-conditioning equip-	35,48	11.96
87	ment Other household electrical appliances and	76.38	44.12
	wares	77.86	34.11
88	Motor vehicles, engines, bodies and parts	31,93	26.85
91	Other Transport equipment	42.07	38,63
92	Miscellaneous manufactures	90.74	45.69
	Average	115.01	43.19
	Standard Deviation	195.52	47.44
	Coefficient of Variation	1.70	1.10

Appendi	x Table	2: ETP	R	Estimates for	
Intermediate	Goods S	Sectors	in	Manufacturing (S	宪)

I-O No.	SECTOR	1980	1985
29	Sugar milling and refining	- 1,12	- 0.92
35	Desiccated coconut products	-3,86	-2.63
41	Cordage, twine and other textile products	-9.26	- 7.40
49	Pulp, paper and paperboard manufacturing	47.49	29,29
56	Other rubber products	26.20	17.89
57	Basic industrial chemicals	13.97	12,82
58	Coconut oil	-0.73	- 0,64
59	Other oils and fats	64.88	33,47
60	Fertilizer and lime	23,20	16,68
62	Plastic materials	44.28	23.15
65	Other chemical products	47,05	34.34
66	Petroleum refineries and other petroleum		
	products	12.36	12,61
83	Batteries	83,91	13.64
	Average	26.80	14,02
	Standard Deviation	27.76	13.32
	Coefficient of Variation	1.04	0.95

Appendix Table 3: ETPR Estimates for Inputs-Into-Construction Sectors in Manufacturing (%)

I-O No.	SECTOR	1980	1985
45	Luniber	- 1,76	1,02
46	Plywood and veneer plants	-18.07	-13.43
61	Paints, varnishes and related compounds	39,54	26.29
67	Hydraulic cement	-10.08	- 8,92
68	Structural clay and concrete products	69.40	56.67
69	Glass and glass products	54.67	41.68
70	Other non-metallic mineral products	54.33	36.70
71	Basic ferrous metal industries	19.07	12.56
72	Basic non-ferrous metal industries	15.28	16.66
73	Cutlery, handtools and general hardware	52.01	55.69
74	Fabricated structural metal products	-10.31	- 8.24
75	Heating apparatus, lighting and plumbing		
	fixtures	83.61	63.55
76	Other fabricated metal products	68.42	50.20
84	Electric lamps, fixtures, wires and wiring		
	devices	25.53	15.98
	Average	31,54	24.74
	Standard Deviation	32.23	25.49
	Cuefficient of Variation	1.02	1.03

I-O No.	SECTOR	1980	1985
77	Tractors and other agricultural machinery		
	and equipment	26.96	13.67
78	Special industry machinery	16.33	21.03
79	General industry machinery and equipment		
	(excluding electrical)	17.79	25.94
80	Office, computing and accounting machines		
	and apparatus	12.70	15.45
81	Electrical industrial machinery		
	and apparatus	38.48	35.18
82	Communication equipment excluding radio,		
	TV	47.91	10.86
90	Shipbuilding	7,02	15.14
	Average	23.88	19.61
	Standard Deviation	13.65	7.87
	Coefficient of Variation	0.57	0.40

Appendix Table 4: ETPR Estimates for Capital Goods Sectors in Manufacturing (%)

DISCUSSION ON THE 1981-85 TARIFF CHANGES AND EFFECTIVE PROTECTION OF MANUFACTURING INDUSTRIES

Florian Alburo, Ph.D., Discussant

In this paper, Professor Bautista provides us with estimates of effective protection rates (EPR) for various industries along four sectors (by end-use) using the 1974 Input-Output Tables but adjusted for price differences between 1974 and 1980. EPR's for 1980 take into account (nominal) tariff levels for that year while EPR estimates for 1985 take into account the projected tariff levels as planned in the current tariff reform program. I presume, in the absence of an explanation, that no adjustment is made for possible price changes between 1980 and 1985.

I find myself in full agreement with the thrust of Professor Bautista's examination of the tariff reform and my discussion necessarily is in addition (and perhaps sometimes redundant) to his main points. It appears that even by 1985 the distortions in the protective system of Philippine manufacturing will remain the same as in 1974. What the tariff effectively does then is simply to reduce the industries that are protected in the various categories but retaining the implied misallocation of resources. Consumption goods are still accorded the highest EPR's. Indeed, as shown in Table 5, the ranking of EPR's remain the same although it should be noted that by 1985 the intermediate goods sector would have the least protection (compared with 1980). Thus, ceteris paribus, one can say that the tariff reform by 1985 implies greater resource misallocation (after adjustments will have taken place) but for a smaller set of industries. In short, it seems that the tariff reform program cast in nominal terms would fail to achieve the desirable correction of the protective system in the manufacturing industries.

It is expected that by 1985 the Philippines will have achieved lower average levels as well as distribution of nominal tariff rates compared with her ASEAN neighbors. While this may be considered an important result, what I think is even more important is to keep track of the result in terms of resource allocation pattern in the country.

Professor Bautista indicates there is room for further reform that would aim for a more neutral effective protection. I would second this argument. Perhaps not only in the area of further tariff cut to lower EPR disparities but even in the other policy areas it might be useful to pursue active programs aimed at counteracting the effective net result of the tariff reform. My final note has something to do with the procedure for the calculations. The paper lays out the assumptions behind the EPR's, the limitations of the methods and other underlying structure. In a period of substantive disturbances, I think that the use of dated (and constant) $[a_{ij}]$'s will likely result in estimates which would be less meaningful than otherwise.

The paper finds that 8 sectors (actually 9 including I-O 28; Cf. Table 4) show increases in EPR and argues [the increase] them to be"... generally insignificant at that, as a result of the tariff reform" (p. 15). When one looks at the distribution of the increases according to the four sectors, I do not think they are insignificant. While the differences are indeed small in the consumption (other than I-O 63), intermediate, and inputs-into-construction sectors, they seem to be large in the capital goods sector. (Cf. Appendix Tables 1-4).

Given the magnitude of the disturbances between 1974 and 1980 (e.g. oil price increase) one can expect that the capital goods sector would relatively suffer more in terms of lower value added (at constant $[a_{ij}]$'s. This coupled with low t_i 's, implies high EPR's. In the tariff reform of 1980-1985, relatively low t_j 's and lower t_i 's, given the same $[a_{ij}]$'s would mean higher EPR's. Consequently, one finds increases in EPR's than what would otherwise find in the face of adjusted $[a_{ij}]$'s and the appropriate factorproportions response to disturbances. This means that when these considerations are taken into account, the apparent bias may not be that large. Put differently, the tariff reform may actually be narrowing EPR's than what we are led to believe.

This of course does not prove any precise point against what is advanced in the paper. Rather, this is an argument for a new round of data on inter-industry transactions that reflect more accurately adjusted responses and factor proportions even if on the same isoquant.

Gonzalo M. Jurado, Ph.D., Discussant

Romeo Bautista has made a careful assessment of the likely impact of the on-going tariff reform in the Philippines upon various industries in the country's manufacturing sector. He has outlined the bases of the expectation that this liberalization, through the reduction of effective protection rates, would result in the improvement of resource allocation and the promotion of overall industrial development. Though the current reform is extensive, however, a number of additional modifications in the tariff structure can be introduced at a later date, including in particular the lowering of tariff rates on consumer goods and the raising of those on intermediate products and capital goods, to further enhance the policy environment for industrial enterprises.

I agree entirely with the Bautista thesis, emphasizing only some points that were accorded subsidiary treatment in the study. The case for free trade has to this day constituted one of the few unchallengeably established propositions in trade theory, namely, that countries can gain in efficiency and welfare if they engaged in free trade (on the basis of comparative advantage). Yet the inclination towards protection has persisted through time among many countries, the industrially advanced ones included, and indeed has become stronger in the last three or four years. The reason for this, I think is not that policy makers have been unappreciative of the benefits that can be realized from unrestricted exchange but that they have been concerned with the costs that a movement towards a more liberal regime can inflict upon some members of the population. It is quite true that trade liberalization has the potential of promoting efficiency in resource allocation and improvement in consumer welfare but it is also a fact that unless conditions of perfect competition in the factors and commodities markets prevail and unless compensation schemes are actually carried out such a potential may not be realized. On the contrary, trade relaxation can injure some productive factors, wiping out their activities or extinguishing their jobs, as well as promote the welfare of some, not all, people.

In the Philippines, I think that the attention given to the gains that are expected to come in the wake of tariff reform must be tempered with a regard for the circumstances of those who will be disadvantaged by such reform. Economic policy must show sympathy for adversely affected groups.

Bautista has enumerated a number of measures that can be brought to bear upon the problem of sluggish industrial growth without creating the unwanted distortions that the tariff structure generates. I am in favor of systematically implementing these measures in moderation of the impact of the liberalized tariff, for the duration of the adjustment period: subsidies to affected industries in the form of fiscal privileges (tax exemptions, tax holdings, loss carry-over, etc.), direct taxes or transfers to income groups benefitted or injured by the reduced tariff, and appropriately aimed monetary and fiscal policies.

In addition, I am in favor of substantial adjustment assistance both to affected industries to enable them to overcome the difficulties of the transition and to injured income groups to make it possible for them to recover welfare losses.

In arguing this way, I am not proposing the perpetuation of internationally non-competitive industries nor justifying the inauguration of an onerous welfare program. The adjustment assistance and compensatory measures are to be of a medium term duration, possibly four or five years. What I am suggesting is the more uniform distribution of the cost of adjustment among members of society and the more equitable diffusion of the benefits of liberal trade amongst them. This course of action is not only necessary as a way of concretizing compensation measures; it is also reasonable in the context of a second-best situation in which non-competitive conditions of distorted prices and costs already exists, to begin with.

Vicente B. Valdepeñas, Jr., Ph.D., Discussant

First, a few general comments on Dr. Bautista's paper. It is a welcome effort, mainly because it attempts to reveal what is probably the real structure of protection implicit in the tariff reform initiated in 1981. Tariff analyses tend to be usually obfuscated by differences between statutory and actual levels of the rate structure. Any initiative that is exercised to clarify this chronic obfuscation and thereby succeeds in defining more explicitly the real incidence of a tariff structure is in the right direction.

As noted by Dr. Bautista himself, the tariff reform introduced in 1981 will have cut back the average statutory rate some 35 percent over five years, from 43.11 percent down to 27.9 percent. This in itself, especially as it has been taken on a unilateral basis and applied on an mfn (most-favored-nation) coverage without so much as an effort to elicit reciprocal tariff concessions from trading partners of the Philippines in the GATT (General Agreement on Tariffs and Trade), represents a tremendous trade liberalization process. However, Dr. Bautista could have refined the magnitude of the overall tariff reduction by weighing each BTN sectional schedule by the import values that were dutiable in 1980. For the terminal year of the tariff reform, viz., 1985, the weights could have been figured out as the most probable configuration of import values by that time. This would have of course entailed a vast amount of sensitivity analysis of the import structure in relation to the tariff reform.

However, as Dr. Bautista says on page 46 of his paper, the focus of his efforts is the impact of the tariff reform on the structure of incentives available to manufacturing industries. Here he applies the apparatus of effective protection, that is, protection of value-added. In his formulation of the measurement of effective protection, from pages 46 thru 47 of his paper, Dr. Bautista makes a transition in the valuation of input coefficients from foreign to domestic prices. This is fairly understandable since the basic input-output table he is working from values all transactions in peso prices. What seems to present some difficulty, however, is the fact that this table was first organized in 1974, with imports tabulated as a column vector rather than a row vector. Its coefficients have since been adjusted to take into account price changes up to 1980. Presumably, and as a result of discretionary management of the exchange rate in the interim, a range of effective exchange rates would have prevailed for different import transactions. This would have vitiated the assumption that the peso prices of imported inputs are directly comparable, an assumption that is implied in the way effective protection is estimated. To the extent that this assumption runs counter to the reality of varying exchange rates, the corresponding measures of effective protection are somehow flawed in the process.

Be that as it may, the estimated levels of effective protection for some 67 manufacturing industries suggest that for 1980 they have been some 60 percent higher than the simple and unweighted average statutory rate shows, and for 1985 some 9 percent higher. Moreover, there appears to be a more than 50-percent cutback in the levels of effective protection over the five-year course of the tariff reform. This is an even more considerable reduction than had earlier been noted for a corresponding cutback in the simple and unweighted average statutory rate across all sections of the tariff schedules for the same period of time.

The suggestion for further rationalization of the tariff structure by cutting further on tariffs for consumer imports and raising those for the intermediate and capital goods needs to be modified to take into account the implications of such a motion for export promotion. If such great exporting countries as South Korea, Taiwan, Brazil and Yugoslavia do not attempt a rationalization of their respective tariff structures along the lines suggested, then there seems to be little point in the Philippines taking on such rationalization motion.

On the policy alternatives suggested for protecting domestic industries, there is an immediate constraint to extending direct subsidies. It is the ability of the community to raise the resources for subsidization. At the same time, it is fairly vulnerable to such GATT sanctions as countervailing duties. As for income transfers to underwrite compensatory consumption, once more the big question is where to raise the funds to finance such transfers. As for monetary and fiscal policies, including exchange rate policy, and their ability to relieve the balance of payments problem, one should keep in mind the resurgence of strident protectionism in the key markets of the Philippines overseas, as well as the OECD economic cartel on export credits.