

The Theory and Practice of Agricultural Income Tax in Pakistan and a Viable Solution

M. GHAFFAR CHAUDHRY

1. INTRODUCTION

Pakistan has a history of taxing agriculture through the land revenue system. Being income and price inelastic, the replacement of the system with agricultural income tax is considered inevitable for meeting the financial needs of a growing national economy. In fact, under pressures from World Bank and International Monetary Fund (IMF), Pakistan introduced various variants of agricultural income tax in the past and in full during 1993 and 1996 respectively [World Bank (1999)]. However the introduction of agricultural income tax is a highly controversial issue in Pakistan, in government circles as well as among professional researchers and economists. Out of the nine commissions [Pakistan (1959, 1960, 1963, 1964, 1970, 1975, 1986, 1988, 1989 and 1993a)] that studied agricultural taxation only two recommended it. [Pakistan (1960, 1993a)]. The remaining seven favoured the existing land revenue system. The studies of individual economists are no less controversial in this respect. There seems to be a general consensus among such writers as [Hamid (1970); Yaqub (1971); Chowdhury (1971); Khan (1991) and World Bank (1999)] on the repeal of land revenue system in favour of agricultural income or graduated land tax. Against this an equal number of economists, have shown dissatisfaction with agricultural income tax as an effective tool of taxing agriculture [Ahmad and Stern (1989); Bird (1974); Bird and Oldman (1990); Chaudhry and Maan (1993); Gold and Foster (1972) and Newbery (1987)].

While the merits and demerits of agricultural income tax perceived by various writers in theory and practice are a major source of the controversy, the present paper attempts to provide an assessment of introducing the policy in Pakistan in the light of typical characteristics of a good tax policy if only to recommend viable alternatives.

M. Ghaffar Chaudhry is Joint Director at the Pakistan Institute of Development Economics, Islamabad.

Author's Note: Author bears full responsibility for the ideas expressed in this paper.

In line with these objectives, the paper's outline consists of five sections. Following the current introductory section, the benefits of agricultural income tax in terms of revenue generation, resource-use efficiency and as a fair and just system of taxation are spelled out in Section 2. Some of its limitations as an effective policy tool under Pakistan's conditions are discussed in Section 3. In Section 4, policy recommendations are made. The final Section 5 contains concluding remarks.

2. MERITS OF AGRICULTURAL INCOME TAX

The theoretical desirability of agricultural income tax follows from a number of considerations.

The case for agricultural income tax follows from low contributions of agriculture to government's tax revenue. It is argued that, although agriculture's share in national income exceeds 23 percent, revenue raised from the sector is, at best, minuscule [World Bank (1999)]. With limited tax potential of many subsistence farmers, the land revenue system needs to be replaced by agricultural income tax for any significant increase in revenues from this sector. It is further argued that since the discrimination against agriculture in the form of low prices has ended or diminished in recent years, there exists a large untaxed potential which can be tapped by taxing this sector [Khan (1991) and World Bank (1999)].

The justification for agricultural income tax is further built on criticism of land revenue system as an outmoded, regressive and price and income inelastic system of taxation. By contrast the progressive rate structure of agricultural income tax permits heavier taxation of those with sufficient ability to pay and exemptions for the poor. Thus the system of agricultural income tax is helpful in achieving the most cherished goals of economic development such as equitable income distribution, poverty alleviation and resultant better nutrition in the rural areas. It has also been argued that the income-based tax system would be income and price elastic and would rid the economy of costly and politically sensitive periodic land assessments for increases in government's tax revenue from agriculture [Chowdhury (1971); Hamid (1970); Khan (1991) and World Bank (1999)].

The large and prosperous farmers are typically characterised by under-utilisation and inefficient use of land resources. The cultivation intensity of land varies inversely with farm size and equals 150 percent on farms under 5.0 acres but is only 70 percent for farms exceeding 150 acres [Pakistan (1993)]. Therefore rising and higher tax rates under income tax should force many large farms to use their land more intensively and efficiently.

The desirability of agricultural income tax also follows from the benefit approach as large farmers have been argued to benefit more from government's policies of input subsidies, institutional credit and extension and research services.

The introduction of agricultural income tax may prove to be cost effective as tax assessment and collection may be undertaken by income tax department and the services of provincial revenue departments may no longer be needed after repeal of land revenue system.

Finally, the higher tax rates for the well-to-do may restrict mass consumption by the rich and the policy may ensure stability of prices of most of the consumer goods.

3. THE LIMITATIONS OF AGRICULTURAL INCOME TAX

In spite of its theoretical appeal, the imposition of agricultural income tax in Pakistan seems neither to be practicable nor justified on any grounds whether economic, social or political. This can be seen from the following discussion.

The rhetoric on agricultural income tax is premised on weak foundation and there is no reality in such statements that hold that agriculture pays no tax or that it is under-taxed despite the existence of considerable tax potential especially after the implementation of the structural adjustment programme raising agricultural commodity prices to world levels and ensuring end of implicit taxes in agriculture. The fact of the matter is that agriculture in Pakistan is subjected to all kinds of direct, indirect and implicit taxes and the practice continues unabated. It is true the contribution of direct taxes in agriculture is miniscule, but it is also a fact that it is over-burdened with indirect and implicit taxes. And that could be the underlying reason of low share of direct taxes.¹

Taking the tax system as a whole, incidence studies have shown that agriculture accounts for the payment of 35-46 percent of total tax revenue in Pakistan [Qureshi (1986)]. As agriculture generates only 23 percent of national income, the tax burden in agriculture would, at least, be double that of the non-agricultural sector. But since agriculture supports nearly 70 percent of Pakistan's population, agriculture's real tax burden in terms of per capita incomes should be more than six-times the tax burden in the non-agricultural sector.

Over and above what, agriculture pays by way of indirect taxes, it is also subjected to implicit taxes in the form of low agricultural commodity prices. Basing our calculations on comparisons of parity and support prices, Table 1 reports on the probable magnitude of implicit taxes from 1995-96 to 1997-98.

It is clear from Table 1 that support prices of agricultural commodities (with the exception of IRRI rice during 1997-98) were at best significantly lower than their corresponding parity prices. As a consequence, implicit taxation of agriculture was

¹In view of the overwhelming emphasis on indirect and implicit taxes in agriculture, the low magnitude of direct taxes should not drastically change its burdens relative to those in the non-agricultural sector.

Table 1

Implicit Tax in Pakistan's Agriculture from 1995-96 to 1997-98

Years and Commodities	Commodity Prices (Rs Per Tonne)		Marketed Output (000 Tonnes) (3)	Total Implicit Tax (Rs Million) = (1-2)X(3)
	Farm Gate Parity Price (1)	Support Price (2)		
1995-96				
Wheat	9850	4325	3740	20664
Sugarcane	1050	538	45230	23158
Basmati Rice	7775	5550	955	2125
IRRI Rice	3525	2800	1179	855
Seed Cotton	19600	10000	5406	51898
Total	–	–	–	98700
1996-97				
Wheat	9490	6000	3448	11344
Sugarcane	1146	600	41998	22931
Basmati Rice	7252	6382	610	531
IRRI Rice	3646	3220	1747	774
Seed Cotton	23570	12500	4782	53893
Total	–	–	–	89473
1997-98				
Wheat	9774	6000	3984	15036
Sugarcane	1089	875	53104	11364
Basmati Rice	8768	7750	736	749
IRRI Rice	3667	3825	2052	–324
Seed Cotton	21955	14375	4689	35543
Total	–	–	–	62368

Source: [APCom (1997, 1998) and Pakistan (1999)].

Note: Parity prices are import parity prices in the case of wheat and sugarcane and export parity prices in the case of rice and cotton. Farm-gate parity prices were calculated by adding and subtracting transport costs from farm to market respectively from import and export parity prices given in the source. Marketed output equals total output of seed cotton and sugarcane and procured and exported amounts respectively of wheat and rice.

nearly Rs 99 billion, Rs 90 billion and Rs 63 billion respectively for 1995-96, 1996-97 and 1997-98. Although the implicit taxes seem to have fallen over this 3 years period, most of the decline was the result of falling cotton and sugarcane prices in the international market. The implication of this finding is that implicit taxes could rise again to 1995-96 levels or beyond with reversal of price trend in the international market.

The above information indicates non-existence of any tax potential in agriculture. It is further vitiated by falling profit rates of agriculture in recent years. This situation results from, (1), widespread crop failures and (2), sharper increases of

prices of key agricultural inputs relative to those of major agricultural commodities [Chaudhry (1995) and ACom (1997, 1998)] under mounting World Bank/IMF pressures for complete removal of subsidies to farm sector.

The claim that imposition of agricultural income tax would be commensurate with automatic additions to tax revenues because of its high income and price elasticities, is equally untenable. In fact, there is substantial evidence to the contrary. It has long been established that a presumptive income tax whether based on PIUs per acre or rental value of land would really amount to no more than a land tax in disguise [Bird (1974)]. As land taxes are inherently income and price inelastic, presumptive income tax should be similarly classified. According to Wald (1959) “the inelasticity which characterises most land taxes is organic, that is to say, it comes from within the tax as a result of stable tax rate to a tax base that is not kept current”. Also unlike the stable tax yield of a proportional land tax from year to year, the progressive rate structure of agricultural income tax that varies directly with farm size or PIUs of an agricultural holding can be blamed for declining (in absolute terms) government revenues over time because of the operation of inheritance laws and other factors. As this is contrary to the very basic tenet of a good tax policy; introduction of agricultural income tax can only be a futile and self-defeating exercise.

The operation of inheritance laws would continue to cause division of agricultural holdings to smaller size farms and consequent progressive reduction in government revenue. Between 1970 and 1990 the average farm size has already fallen from 13.0 to 9.4 acres [Pakistan (1975, 1993)] and is likely to fall further in the coming years. As the recommended agricultural income tax policy also provides for tax exemptions below a certain farm size, it may encourage tax evasions through registration of land ownership in the name of relatives [Newbery (1987)] or even through *Benami* transfers in collusion with revenue officers as under land reforms [Herring and Chaudhry (1974)]. While the fall in government revenues is imminent, its magnitude would most likely vary directly with steepness of progression, rate of subdivision of agricultural holdings, and the tax exemption limit and inversely with economies of scale in agriculture. It may also be noted that the agricultural income tax would result in narrowing the tax base as against the principle of broadly-based tax of a good tax system because the narrower the tax base, the higher the tax rate will have to be to generate a given amount of revenue [World Bank (1988)].

To the extent that agricultural income tax adds to the temptation of evasion, the equity argument is considerably dissipated. The provincial revenue departments in some cases have resorted to use crop land as a base for agricultural income tax which violates both equity and efficiency principles by progressively alleviating tax burdens of larger farms with falling cultivation intensity as earlier discussed.

In comparison to the flat rate land taxes that are easy to manage, the progressive rate structure of agricultural income tax makes the system increasingly

complex and would be difficult to enforce administratively. A graduated land tax policy for effective implementation would require efficient and honest administration because the incentive to evade taxes increases with the introduction of progressive tax rates [Bird and Oldman (1990)]. Under the present situation of poor administration, rampant corruption and favouritism, the successful implementation of a graduated land tax, like the various land reform attempts, can be seriously doubted. Surrey is emphatic on this: “the income tax may well be favourite of the twentieth century but it demands twentieth century administration. There are many who urge these variants without any comprehension of the complex legal and accounting problems which they create” [Surrey (1975)]. Thus the land-based agricultural income tax policy can hardly be recommended for implementation even on administrative grounds.

4. REFORMING THE AGRICULTURAL TAX SYSTEM

Although equitable taxation of agriculture is a desirable objective, direct progression in the form of either the extension of general income tax or an introduction of a graduated land tax, as shown in the foregoing, suffers from formidable practical problems of implementation and is unsuited to conditions in Pakistan’s agriculture. This being so, progression in agricultural taxation can be introduced only indirectly by appropriately combining the proportional land tax and a tax on marketed output.² This two-tier system of agricultural taxation has all the desirable characteristics of a rational tax policy. For example, a proportional land tax based on owner’s farm area—cultivated or uncultivated—is preferable over the graduated land tax because, as was argued before, it will keep the tax base stable and relatively broader, will reduce the temptation for undue subdivision of holdings, will avoid the possibility of declining absolute tax revenues over time, will ensure efficient use of resources, and above all will be easy to administer.

A proportional land tax, however is inherently handicapped by its inequitableness, and income and price inelasticities. A tax on the marketed produce is best suited to overcome these deficiencies of agricultural taxation. In the words of Wald, “In certain respects a tax on marketed produce has unique qualifications as an instrument of equitable taxation Moreover, the tax is responsive to changes in production and prices The incidence of such a tax, as distinguished from that of land revenue, will be appropriately heavy on the large land holders. While the small land holder, to the extent his crop is consumed and not sold by him will not have to bear the tax at all” [Wald (1959)]. In Pakistan the appropriateness of this so-called indirect progression, is greatly enhanced as the tenants will not be subjected to

²The progression is essentially indirect, since the proportional rate on marketed surplus is converted into a progressive rate per acre because of relatively higher marketed surplus of the large farmers.

heavier tax rates along with the large land holders—the largest producers of marketed surplus. The tax base will be widening and the revenue from the tax on marketed produce will be expected to grow at the rate of growth of the marketed surplus plus the rate of increase in prices of agricultural commodities. In case of crop failures and market gluts, tax payments by farmers will automatically be reduced for relief against natural calamities. The tax may be implemented through the local bodies administration to avoid any additional cost as the local bodies in the recent past were collecting a similar tax on agricultural commodities. The tax in addition will avoid tax evasion as the farmers will be easily approachable at the market place. Moreover, there will be less corruption because the tax collectors will be closely supervised.

To a certain extent a tax on marketed produce may be accompanied by deleterious effects on farm and marketed outputs. This can be expected because no system of taxation can be perfectly neutral with respect to allocation [World Bank (1988)]. It may, however, be noted that the disincentive effect of the policy on output and marketed surplus can be considerably reduced by the presence of a heavy land tax, especially on unused lands.

It is difficult, if not impossible, to suggest any precise rate structure of the two taxes for want of appropriate statistics. It would, to a large degree, depend on revenue demand of the government from the sector. However, the system could be considerably simplified if half the revenue demand from agriculture is met through a land tax and the other half through a tax on marketed output. As agriculture is already over taxed in the form of indirect and implicit taxes, it is an absolute necessity to discontinue indiscriminate use of fiscal and price policies for massive transfer of resources from agriculture to non-agricultural sector. This, in precise terms, could only be done by ensuring effective transmittal of world prices to agriculture in Pakistan through establishment of regulated private marketing system with close supervision by the government to guard against malfunctioning. In view of the volatile nature of world prices, fixation of domestic agricultural commodity prices may be undertaken on the basis of five-year moving average of world prices. The price policy thus evolved would have built-in stability of prices and consistency with zero support to agriculture as taxes in years of high world prices would be automatically canceled out by positive transfers into agriculture during years of low world prices.

5. CONCLUDING REMARKS

As discussed in the foregoing, agriculture is subjected to direct, indirect and implicit taxes. Its contribution therefore to total tax revenues must be based on the incidence analysis of all three which would reveal the huge and oppressive burden of taxes on agriculture.

While increasing dependence on direct taxes would be highly desirable, progression in agricultural taxation cannot be introduced by the introduction of a general income tax or a graduated land tax due to many practical problems of a

fundamental nature. If equitable taxation of agriculture is at all desirable, progression in land taxes has to be achieved in an indirect way. For this purpose, a two-tier system of agricultural taxation, involving a proportional land tax on the pattern of land revenue and a uniform tax on marketed surplus can be recommended. Devised in a proper manner, the two-tier system would be equitable, responsive to changes in income and inflation and easy to implement, manage and operate even with the present administrative set-up. A uniform rate structure of a tax on marketed output may prove to be progressive in its impact, if the tax is ultimately paid by the farm sector and if the marketed surplus varies directly with farm size. There can be little doubt that the two relationships would largely hold as far as Pakistan's agriculture is concerned.

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