ACCOUNTANCY:

Management Companion

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CHAPTER TEN

THE PREFERENCE FOR VARIABLE COSTING CHNIQUE IN THE VALUATION OF INVENTORY ON GENERAL PURPOSE FINANCIAL STATEMENTS

PAT DONWA AND SYLVESTER ERIABIE*

ODUCTION

For external reporting on financial statements, a pany is required to value inventory by the absorption sting chnique. Financial statements that include intory valued at variable cost only may be subject to palification by external auditors, if the valuation differs interially from what it would be under absorption costing chnique. Because of these uncertainties variable costing technique (i.e. direct costing) is often confined to purposes of ternal porting only.

Viriable costing claims theoretical support for it being used in the valuation of inventory by virtue of the generally accounting concept that period costs should be gnized in the profit and loss account of the period in thich they are incurred as against the absorption costing technique which claims that inventory value should carry long with it part of the period costs to future accounting period.

Using absorption costing technique, the part of the priod cost (i.e. fixed cost) embedded in inventory is not an asset from the view point of 'Accounting Theory', since it does not have future service potential (i.e. revenue producing twer), in the sense that fixed costs incurred during one unting period have no bearing on re-incurring the same and of fixed cost in subsequent periods. A cost is viewed as an asset if it can be shown that it has future service

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potential as generally viewed in accounting theory. International Accounting Standard Committee (IA) Framework for the Preparation and Presentation of Finance Statements (1989, F19) defined an asset as "a resolution resolution of Finance Statements (1989, F19) defined an asset as "a resolution resolution which future economic benefits are expected to flow the enterprise". This buttresses the basic principle that asset is only an asset if it is a source of future economic benefit. (Lewis & Pendrill: 1981, 73).

CONTROVERSY ON THE USE OF THE TERMS 'VARIAN COSTING', 'MARGINAL COSTING' AND 'DIRECT COSTING'

Though, the terms 'direct costing', 'marginal cost and 'variable costing' is used interchangeably, there been some disagreement on these terms, each being used place of the other to reflect the same meaning.

Although direct costing has earned the acceptance many accountants and businessmen, particularly that the industry, the status of the method as to gen acceptance still remains doubtful. As pointed out by Broand Howard (1982), controversy has arisen not only over usefulness of "marginal costing" but even what the phomeans. Horngren (1982) has argued that more accuterms would be variable or marginal costing sind approach includes an inventory that has not only element of direct materials and direct labour but also variant indirect manufacturing costs. Batty (1978,282) states the "the main reason for use of 'direct costing' seems to be the is a description of long standing".

In their contributions to the debate; Drury (1996 Horngren et al (1994) have argued that neither directs con nor marginal costs are quite the same as variable costs. Direct costs are those costs that can be specifically identified with a product (i.e. those costs that are easily traceable the products). They are direct materials, direct labour and direct expenses. However, in some situations direct labour and may not vary in the short run with changes in output. So, the use the term 'direct costing' as meaning the same as variable.

ost Then it specifically includes a non-variable item in the hort run (i.e. direct labour) is not at all appropriate.

Drury (1992) went further to argue that using the term in the property of the cost of producing one additional unit. To him an application of this definition may lead to fixed costs being included in a situation where the production of the litional unit will result in an increase in fixed costs, for imple the appointment of an additional supervisor, or an increase in capacity due to the purchase of additional chine. This differs from the accountants' definition of inginal costing.

In accountants use the term 'marginal cost' to the verage variable cost' (Lucey: 1986, 171). This implies the riable cost per unit of product or service. To the accountant, marginal cost is particularly appropriate for thort run decisions in a particular firm. While to the conomist, it is used as an explanation of the cost behaviour of the cost behaviour of the cost (Lucey: 1986, 172).

As carginal cost may be interpreted in different ways by countants and economists, it is better not to use the term when referring to stock valuation (Drury: 1992, 188-190).

From the above explanation, it is clear that the use of the term variable costing is more appropriate; hence it is being opted in this paper.

RIABLE COSTING AND ABSORPTION COSTING

riable costing adopts a system in which all direct and riable manufacturing overhead costs are allocated to the products. Variable costing is an approach to product sting that relies heavily upon cost behaviour analysis and the contribution approach to income determination — an approach in which only variable manufacturing costs are accumulated and attached to products. Put differently, it is a behaviour than the costs and variable manufacturing overhead costs are included as inventoriable costs, fixed

manufacturing overhead costs are excluded from a inventoriable costs and are costs of the period in which the are incurred.

Proponents of variable costing are of the view in fixed manufacturing costs are incurred on time basis and not depend on the units produced. In other words in manufacturing costs expire with the passage of incurred for the benefits of operations during a given per of time. This benefit is unchanged by the actual level operations during the period and the benefits expire at end of the period. For example, the fixed overhead cost rent and supervisory salaries will still be incurred irrespective of whether any actual production takes place.

On the other hand, absorption costing which sometimes referred to as full costing, views product cost consisting of both the variable and fixed costs of product. In other words, it refers to a system in which manufacturing costs both fixed and variable are allocated products.

Advocates of this method rest their argument on principles that the fixed costs are assigned to the probecause each unit benefits from the capacity provided fixed costs. The time period in their view is purely incident to the operation of the business. It is further argued to since revenue is derived from the sale of the product production costs regardless fixed or variable must matched with revenue in the period of sale.

The primary difference between the two methods in the treatment of fixed manufacturing cost. Absorption costing includes fixed manufacturing cost as part of the of goods sold and part of closing stock. Marginal costing the other hand does not treat fixed manufacturing over cost as part of product cost. It treats it as a period cost consequently no fixed overhead cost is included in closing stock for the period. All the fixed manufacture costs of the period are charged against profit and account as expenses.

In general terms, absorption costing emphasises the linction between production costs and all other costs. On the other hand, variable costing emphasises the distinction litteen fixed and variable costs. Each values inventory rdingly.

riable tosting justified

Pariable costing is accepted as being proper, right and conable by the accrual concept, which is one of the enerally excepted accounting concepts. The accrual concept s cribed in SSAP 2 as follows: 'revenues and cost are crued (i.e. recognised as they are earned or incurred, not as poney is received or paid), matched with one another so ar as their relationship can be justifiably assumed, and dealt with in the profit and loss account of the period to thich they relate. This implies that for any accounting priod, the earned revenue and all the incurred costs that enerated that revenue provided they both relate to the priod, must be matched with one another and shown in the rost and loss account. This concept justifies the variable sting hnique which conforms to the accrual concept lenced by charging period costs against profit and loss count of the period to which they relate as only those osts, which are a function of output should be deferred as mentory costs and matched against future revenue.

vocates of variable costing contend that fixed confidence overhead is incurred to provide the capacity produce. These fixed costs are incurred every year and are not a function of production volume (i.e. output). They saim that the fixed portion of manufacturing overhead is not a cost of production but only a standby cost which litates coduction and which must be incurred regardless

of the level of production or sales.

In theory, variable costing views the fixed cost of a siness as a constant quantity that is incurred during a griod of time. When the time period expires, the fixed costs curred expire with it. Accordingly, the whole of the fixed cost must be matched with the revenue of the period, as this is the only source of revenue from which the fixed costs can

be recovered. The next accounting period will incur its of fixed overhead. Therefore, it is regarded as irrational to do in the inventory account any portion of the previous per fixed costs. Moreover, fixed costs are the result of a spokind of management decision hence it is reasonal accord a different accounting treatment to the fixed variable portions of manufacturing overhead.

Variable costing is also justified on the basis of whatermed 'Contribution Theory'. Sales revenue is said

consist of two parts:

(1) A reimbursement of total variable costs, and

(2) The remainder of the sales revenue, which contribe to the coverage of fixed costs and profits.

Applying this to the measurement of incompactors with economists' concept of the marging and clearly demonstrates that profit does not accrue on a basis. No profit regardless of price is realised until costs are fully recovered.

THEORY ACCEPTANCE.

From the foregoing explanation of variable cost there is ample evidence to accept variable costing tech as a generally accepted method of accounting. But the as regards theory acceptance as given by the Amen Accounting Association (1977) concluded that a suniversally accepted basic accounting theory does not as at this time. Instead, a multiplicity of theories has and continues to be proposed. The Basic Accounting The of the American Accounting Association (1966), also that there is no generally accepted accounting theory justify accounting standard. It follows that a compengenerally accepted accounting principles does not exist

This suggests that those efforts by various grouformulate a unified theory in accounting is misplay may not yield the desired result. But what exists in financial accounting literature is a collection of the

thich can be arrayed over the difference in usermment specifications (AAA: 1977, 1-2).

TICIAL PRONOUNCEMENTS ON THE ACCEPTABILITY OF TARIABLE COSTING

There have been official pronouncements on the meptability of variable costing. For instance, the committee counting and Auditing Research of the Canadian bitute of Chartered Accountants (CICA) states:

Sometimes certain costs are excluded in determining inventory values... in some cases; fixed overhead is excluded where its inclusion would distort the profit for the year by reason of fuctuating volume of production. (CICA: 1950, 2).

One can deduce from the above statement an cation of acceptability of variable costing. Also, the titute of Chartered Accountants in England and Wales (AEW) cognizes the acceptability of variable costing. It tates:

Where, however, the levels (of production or sales) are subject to materials fluctuation and are not kept in balance, it may be decided to exclude these (period) expenses from stock on the ground that as they could be incurred whatever the levels of coduction or sales, their inclusion in stock has the effect of relieving the profit and loss account in the period when they are incurred of expenses which it should fairly bear and of charging these penses in a later period to which they do not operly relate. (IÇAEW: 1960, 3)

Lautier and Underdown (1982, 525-533) states untants who advocate the use of absorption costing for ternal financial statements deprive investors of a useful

analytical device and make the task of interpreting to results more difficult".

McGregor (1961, 269) notes that: "In arriving at the cost of work in progress it was undesirable to indulate what is no better than guesswork: and a large part of the absorption cost method appeared to the learned judgitinvolve the 'wildest' guesswork".

Zimmerman (1995,482) opines that "Absorption of systems can distort reported profits as production volutionance, creating for managers to over produce and there create larger inventories."

Wright (1962) reports that upwards of 40% of locompany that use variable costing (i.e. direct costing internally also use the method in external finances statements. Moreover, among the remaining companies the use variable costing, there is a strong preference for extern reports, which agree with internal financial statements.

ACCOUNTING THEORY'S VIEW ON THE INCLUSION OF FIXED COST IN INVENTORY VALUATION.

The fundamental issue here is to ascertain when fixed costs added to inventory falls within the definition of asset as generally viewed in accounting theory. Account theory has a comprehensive definition of assets. I International Accounting Standard Committee (IAS) framework for the Preparation and Presentation of Finan Statements (1989,F19) defined an asset as 'a resou controlled by the enterprise as a result of past event a from which future economic benefits are expected to flood the enterprise. It should be noted that the key element control (not ownership), future economic benefits and the need to be able to identify a past transaction or event while gave rise to the asset. A major element of these the elements is that a cost is viewed as an asset if it can shown that it has future economic benefits that are if it a be shown that it has revenue-producing powers, or that will be beneficial in some ways to operations in fut periods. One would say that assets have future econo

less to the extent that they save costs in the future. This called the costs obviation concept and advocates of table sting have used it to argue that variable costing is perior to absorption costing. Wetnight (1958:84), for apple, has argued that variable costing meets the future these test better than absorption costing in the following

If this test of future benefit is applied to the two methods of costing it can be seen that variable costing most closely meets the quirements. In the first place there is a future benefit from the incurrence of variable costs. These costs will not need to be incurred in a future period. However, in the case of fixed costs, no future benefit exists since these costs will be incurred during the future period no matter what the level of perations.

From a variable costing viewpoint, variablemulacturing costs satisfies the future benefit of cost
lation criterion since inventory produced but unsold in
recounting period relieves subsequent periods of further
lays. Fixed manufacturing overheads fails the cost
lation test for future benefits since the fixed costs
lared laring one accounting period have no bearing on
larring the same kind of fixed costs in subsequent
liods. No part of the fixed production costs of one year
lation test forward as an asset to the following year
lates costs do not result in future cost avoidance.

OVANTAGES OF VARIABLE COSTING TECHNIQUE OVER BSORPTION COSTING TECHNIQUE.

blehinwa (1992,292) identified the following as tages of variable costing technique;

By minating fixed costs from the product cost, it litates the preparation of responsibility-based

income statement for production managers, the enabling them to act upon variances and discrepant under their control.

- 2. Under variable costing, end of year production portion cannot be used to manipulate profit. Under absorbate costing, it is possible to produce more units that be sold for the sole aim of charging greater partial fixed cost to closing stock, thereby increasing representation. Such practice is not possible under various since all the fixed costs are charged to prove and loss account irrespective of the number of unsold.
- 3. Since profit is normally recognized at the time of and not at the time of production, the profinancial costing moves with level of sales and her is a better measure of index of changes in the infortunes.
- It eliminates the need to allocate, apportion and absorb fixed overhead costs into product.
- Variable costing technique of contribution margina the following:
 - (i) It assists in determining the product profitability
 - (ii) It assists in price fixing especially when the fin working below capacity.
 - (iii) It assesses the effect of a change in volume and mix.

However, in addition to the above, our view is a variable costing information enables both management investors to plan and make economic decisions. This view supported by Lucey (1986,176) who opines, "The use marginal costing principles (i.e. variable costing) in plant

Cision making is universal and is of considerable tance."

CLUSION

The issue at stake is as to whether variable costing hique should be used in the valuation of inventory in trence to absorption costing technique on external statements.

From earlier explanations, it is clear that valuation of ntory using the absorption costing technique has its nesses. Carrying forward an expired part of fixed thead to subsequent accounting period has a tendency of orting the profit for the year by reason of fluctuating time of oduction.

From accounting theory's view point, including part of expired fixed cost in the value of inventory using the ption costing technique is wrong because that expired ed cost portion embedded in the value of the inventory is of an asset since it does not have future economic benefits wirtue of the fact that it does not have the capacity to save use in the future, moreso, it does not have any bearing on turning the same fixed costs in subsequent periods.

The Conclusion summarily, is that since variable sting technique can aid both management and investors in king more valuable economic decisions, it should be didered in valuing inventory for external reporting on micial statements in preference to absorption costing sique, which is being currently adopted.

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