

Ref. No.: PF/9 August 13, 2014

Shri M. M. Chitale
Chairman
NACAS
Accounting Standards Board
Institute of Chartered Accountants of India
ICAI Bhavan, Indraprastha Marg, New Delhi-110 002

Sub.: Valuation of Inventories - a submission

Dear Sir,

1. Preamble:

- i. As you are aware, globally, efforts are directed at ensuring that the Profit & Loss Account presented by Corporates to their stake holders present a true and fair view of the profit or loss of the enterprise. Valuation of inventory plays a major role in the presentation of the true and fair view of profits of a going concern.
- ii. It has been universally accepted that inventories of the enterprises should be valued at the lower cost and net realisable value. The revised international Accounting Standard 2 (IAS-2) issued in 2003 by International Accounting Standards Board (IASB) discontinued last-in, first-out (LIFO) as a method of costing inventory for the purpose of valuation. This has initiated a lot of debate on the desirability of LIFO method of costing of inventories for valuation of inventories.
- iii. What is under discussion, particularly in United States is, how the cost of inventories is to be arrived at whether it should be first-in, first-out (FIFO), LIFO or weighted average method- so that the universally accepted formula of the valuation of inventory at lower of the cost and net realisable value could fairly represent the profit of a going concern.

1

Petroloum Federation of India

Par : 401-11-25980240 E-mail: patrolog@patroled.org Schelle: www.patroled.org



2. Scenario in India

- i. Valuation of inventories in India is governed by the accounting Standards issued by the Institute of Chartered Accountants of India. Thus, Accounting Standard 2 (AS-2) issued by the ICAI deals with Inventories. Earlier, under the Indian GAAP, LIFO Method of costing inventory was permitted and same was in line with the IAS 2 pre-revision. The Standards in India, permitted a choice of Cost formulae for valuing inventories Viz first-in, first-out (FIFO), last-in, first-out (LIFO) and weighted average
- ii. With a view to converge the financial reporting of Indian companies with the international Accounting Standards (IAS) issued by the International Accounting Standards Board, Indian accounting Standards (Ind AS) have been issued and hosted on the website of the Ministry of Corporate Affairs. The date from which these standards would come into force is yet to be notified. Each country mandates a standard that best suits its business interests. For example, in the United States of America (USA), the Generally Accepted Accounting Principles of USA (US-GAAP) permit the valuation of inventories on LIFO method of costing.
- iii. However, as per Indian Accounting Standard, Ind AS 2, in terms of paragraph 25, the cost of inventories shall be arrived at by using either the FIFO or weighted average cost formula to value the inventories at the lower of cost and net realisable value (paragraph 9 of the said Ind AS 2).
- iv. Thus, both AS 2 and Ind AS 2 and the IAS 2, have shut the door on LIFO method of costing the inventories.



3. Purpose of this submission

This submission seeks to suggest that the options to 'cost the inventory' at LIFO or FIFO or weighted average method should be made available under law of the land, to businesses, so that businesses could choose the method that best suits their nature of business.

4. FIFO Vs LIFO

FIFO

- i. The FIFO formula assumes that the items of inventory that were purchased or produced first are sold first, and consequently the items remaining in inventory at the end of the period are those most recently purchased or produced. (Refer para 27 of the ind AS-2)
- ii. Therefore, FiFO method of inventory valuation actually results in matching current revenues with historical costs, since the cost of goods sold is said to come out of opening stock and subsequent purchases in chronological order.
- iii. 'Cost of goods sold' (value of opening stock plus purchases minus closing stock) computed when stocks are valued on FIFO basis thus tend to be historical costs- which is out of tune with the reality.

LIFO

iv. In order to arrive at realistic margins earned by trading, the cost of goods sold should be arrived at by computing current costs. Cost of goods sold would be at current costs if



inventories are valued by using the LIFO formula. This is because:

- v. The LIFO method operates under the assumption that the last item of inventory purchased is the first one sold. In other words, LIFO method of inventory valuation results in matching current revenues with current costs and not historical costs;
- vi. Inventories are current assets or circulating capital;
- vii. Inventories are neither fixed assets nor investments;
- viii. FIFO is typical of Capital Gains accounting; (please refer Section 45(2A) of the income tax Act 1961, where, for arriving at Capital gains from sale of shares in Dmat form, FIFO shall necessarily be followed.) The method of "Matching historical costs with current revenue" which is the essence of FIFO basis of accounting, and, which is specific to accounting of Capital Gains on Fixed Assets or investments CANNOT BE A BASIS FOR MATCHING COSTS AND REVENUE of Current assets;
 - ix. A trading account is based on the premise of 'Going Concern Concept' and hence the inventories of a trader that are sold by him are intended to be replenished, for, he wants to stay in the business of trading He purchases to sell and sells so that he can purchase anew.
 - x. So, what a trader does is to effectively sell goods at market determined prices and buy goods to replenish those that have been sold, but the delivery for sale is out of stock in trade so



that the goods stored in the Godown are refreshed every day and they are always new.

- xi. Thus, there are two cycles simultaneously, one of purchase and sale of goods which is at current prices & costs and another of receipt and delivery of goods which is a process of renewal of the 'expiry date' of the stock.
- xii. The margin made on current assets has to be arrived at by comparing current revenues, which is a reality, with current costs and not unrealistic historical costs.
- xiii. Since LIFO provides a matching of current sale prices with current costs, it ensures realistic margins, which is the prime objective of a trading account.

5. LIFO and Petroleum refining and marketing sector:

- i. Presently the accounting standards allow two methodologies of inventory viz. weighted average and FIFO. Considering of the price volatility in petroleum industry, use of both the methods (FIFO and Weighted Average method) leave a considerable impact on the period earnings of the companies in case of a sudden increase or decrease in the international prices of feedstock or petroleum product prices.
- ii. Let's illustrate this with an example. Assuming that a Refinery purchases crude oil at \$100/bbl. & after refining it sells product at \$ 110/bbl. (net of operating cost). In case at the beginning of the month the company has 1 mbbl inventory of



crude oil at \$ 100/bbl. Assuming that the procurement during the month of 1 mbbl came at a cost of \$ 95/bbl. and assuming a margin of 10\$ was sold at \$105/bbl though at current cost basis it has earned a margin of \$10 mm, since the consumption happens on FiFO basis, the inventory will get valued only at \$95/bbl. and hence the book profit will be reflected at only \$5/bbl.

- iii. As it normally happens in oil industry, this trend of falling or increasing prices is cyclical in nature and tends to continue over several business periods (months/quarters). During this period, the companies tend to show an extraordinary loss or profit to the extent that the value of their inventory is continuously getting reduced or increased depending on the direction in which the market is moving.
 - iv. in this situation, the only alternative available to the oil companies to manage the volatility in earnings is to protect the reduction in the value of inventory and consequent erosion in earnings is to resort to hedging. Since the protection is required for every period and in a falling market the hedging could become a continuous process.
 - v. In this sort of an environment, LIFO acts as a natural hedge against the volatility in the market as this enables the input material to be consumed at the current cost and hence the valuation difference between the opening inventory and the current market does not impact the earnings of the current period. Annexed hereto and marked as <u>Exhibit-A</u> is an illustration of the impact of FIFO and LIFO on the financial



results of a corporate. As can be seen from the illustration, in the rising trend, FIFO gives higher profitability whereas for the same set of facts, LIFO gives lower profitability, in tune with the current costs of raw materials which get reflected in higher product prices.

Submission

- i. Thus, the adverse impact of FIFO in reflecting the current earnings of Refining and marketing sectors could be moderated to a large extent by resorting to hedging transactions; but hedging transactions cost time and money. In view of the fact that a natural hedge is available to Refining and Marketing sector if LIFO is adopted for valuation of inventory, it is submitted that an option should be available to this sector to adopt this method of valuation in arriving at their earnings.
- ii. The same may kindly be considered favourably while notifying Ind AS-2.

Thanking you,

Yours faithfully,

Director General

Encl.: as above

namena puramentos

Annual Company of the State of

(COLOR)	Temperations	Persident	Alberton Steat O	Ministration /	Ammont
Appropriate Am	Consider School	400		100	49.00
ALC: NO.	Danish and	and a		320	20.00
FT2 64- 1204A	Control of the Control		製物	100	100.00
ALL SELE		(30/2		23	535,000
48 Nov 2014	Shall		1300	200	29700
And Sciois manage.					
test below from the	Effective that when	1 500	-		

4) Investore entention - REO

Mata	Transmittens	Sharefarane)	COUNTY 1200	and County and C
10-10-1				
CLA TOTAL	(Describer Indescribe)	4001	310	41,600
10 (m) (m)	(Personal Control	100	210	21,000
			_ rail_	an are
A Control Class	in south they still southing	4		
CA NAME TO A	Personal	300	218	20,00
AND THE	Position	300	931	9,50
			他们	11.22
2000	Produces	Sin	83	透照
	30	Sino I		49,00

A househors with the life

TRESO	* Special Space	Limite Constitution	Mark Cont	chants to people
	建制建筑等	520	440	al ma
THE PERSON			335	BALCOS
INTERNAL DE	ALTERNATION	-	M	17,000
4 Destroi Grad	and the last than	l gen		29,483
22 Marie 1970	Perken		19	19/60
		201	250	2000
		- 300	33	701,000
Constitution of the		100		51,040

a) Investment of the United America Middell

Dette	Treppostlaps	Majta Perekondi	Helt Cost	Chapted Chiends cold
Central Grant	could for EQU polic			
DI Sier SDA	Constitut balance	400	170	49,000
The state of the s	Parelesso	800	110	33,000
PART A DESIGNATION OF	T Selection of the Control of the Co	700	225	81,00
	Control counts titeld	1200	118	51,53
	Contest becomen	2.00	339	29,19
A Count of Count	a could the High profits			
ER Mer 2014	Datamen 147	200	116	28,26
35 Mint 2004	Annual Control of the last of	800	23	出。图
was series freezish	10000	100	3,02	80,99
	Cost of people Ruld	300	102	80.72
Clouding Innovents	AMOUNT OF THE PARTY OF THE PART	200	101	51,21

Innovene Civiliani and Delected

Perfindens	Amannt	Opportunits
(usangun)	3,68693	
Profit	2.30,300	to the string price
		Market profesion
	7 /200	1
THE PARTY OF THE P	400	4

Incomes Markingon Children

hastleeftres	functual	Continuatio
inidatio .	1,60,000	
September 1	100,000	I .
	an/and	4 .
Profit	3,27,000	in the slaing price trend LIFO gives
		posses bingrapital
Silvers -		1
months of 1991	I BRADI	11

heelin thetement blime

Partherines	Attount
Concreto	1,00,000
Carlin Stock	31,317
Sector Chieda Seld	20,300
Profit	1.27.32
is Edward	
(S.P.Symb	4 (8)20
(SE Selection)	BUESO
is frequency (us)	a Biri
IS Francis Incorporat (ISB	Bar.