SV Ltd. manufactures a product which is obtained basically from a series of mixing operations. The finished product is packaged in the company-made glass bottles and packed in attractive cartons. The company is organised into two independent divisions viz. one for the manufacture of the end-product and the other for the manufacture of glass bottles. The product manufacturing division can buy all the bottle requirements from the bottle manufacturing division. The General Manager of the bottle manufacturing division has obtained the following quotations from the outside manufacturers for the supply of empty bottles. some)

Outside (0

No. of empty bottles	Total purchase value (Rs.)
8,00,000	14,00,000
12,00,000	20,00,000

A cost analysis of the bottle manufacturing division for the manufacture of empty (motte) bottles reveals the following production costs:

No. of empty bottles	Total cost (Rs.)
8,00,000	10,40,000 32
12,00,000	14,40,000

The production cost and sales value of the end product marketed by the product manufacturing division are as under:

Volume (Bottles of end product)	Total cost of end product (excluding cost of empty bottles)	Sales value (Packed in bottles)
	(<i>Rs.</i>)	(<i>Rs.</i>)
8,00,000	64,80,000 ga	91,20,000 - Da
12,00,000	96,80,000	1,27,80,000 - ()+

There has been considerable discussion at the corporate level as to the use of proper price for transfer of empty bottles from the bottle manufacturing division to product manufacturing division. This interest is heightened because a significant portion of the Divisional General Manager's salary is in incentive bonus based on profit centre results.

As the corporate management accountant responsible for defining the proper transfer prices for the supply of empty bottles by the bottle manufacturing division to the product manufacturing division, you are required to show for the two levels of volumes of 8,00,000 and 12,00,000 bottles, the profitability by using (i) market price and (ii) shared profit relative to the costs involved basis for the determination of transfer prices. The profitability position should be furnished separately for the two divisions and the company as a whole under each method. Discuss also the effect of these methods on the profitability of the two divisions.

Solution

Statement showing profitability of two divisions at two different levels of output using different transfer prices

No. of bottles	8,00,000	12,00,000	
	(Rs.)	(Rs.)	
Sales value (Packed Product) : (A)	91,20,000	1,27,80,000	
Less : Costs			
Product Manufacturing Division	64,80,000	96,80,000	
Bottle Manufacturing Division	10,40,000	/ 14,40,000	
Total costs : (B)	75,20,000	1,11,20,000	
Profit :{(A) - (B)}	16,00,000	16,60,000	
Profit prorated to Bottle Mfg. Division and Product			
Mfg. Division.			
Share of Bottle Manufacturing Division:			
16,00,000 × 10,40,000/75,20,000 (35 71,007)	2,21,276		
16,60,000 × 14,40,000/1,11,20,000	17	2,14,964	
Balance profit relates to Product Mfg. Division	13,78,724	14,45,036	
	>16,00,000	16,60,000	
	(Rs.)	(Rs.)	
Transfer prices of bottles			
Costs	10,40,000	14,40,000	
Profit as computed above	2,21,276	2,14,964	
Total price	12,61,276	16,54,964	
Transfer price per bottle	(Rs.) 1.577	(Rs.)1.379	

From the above computations, it is observed that shared profit relative to the cost involved is (*Rs.*) 2,21,276 (*Rs.* 0.2766 per bottle) at 8,00,000 production level and (*Rs.*) 2,14,964 (*Rs.* 0.179 per bottle) at 12,00,000 production level. The profit of Product Mfg. Division is (*Rs.*) 13,78,724 (*Rs.*1.723per bottle) at 8,00,000 production level and (*Rs.*) 14,45,036 (*Rs.* 1.2042 per bottle) at 12,00,000 production level.

Prontability based on ma	irket price	
No. of bottles	8,00,000	12,00,000
Bottle Mfg. Division	(Rs.)	(Rs.)
Market price	14,00,000	20,00,000
Less: Cost	10,40,000	14,40,000
Profit (i)	3,60,000	5,60,000
o Product Mfg. Division		
N° Sales value	91,20,000	1,27,80,000
No Product Mfg. Division	14,00,000	20,00,000
Y Product cost	64,80,000	96,80,000
	12,40,000	11,00,000
Total profit : (i) + (ii)	16,00,000	16,60,000

Profitability based on market price

Production level	Profit based on cost (Rs.) Bottle Product		Profit based on Market price (<i>Rs.</i>)	
8,00,000 bottles	Mfg. Div. 2,21,276	ing. Div.	Bottle Mfg. Div.	Product Mfg. Div.
12,00,000 bottles	2,21,276 3 2,14,964 X	13,78,724 14,45,036	1000 () 3,60,000 5,60,000	() 12,40,000 (2) 11,00,000
C 1	~			

Observations:

- 1. Market price methods give a better profitability to Bottle Mfg. Division at both the production levels.
- 2. Market price method gives a lower profitability to Product Mfg. Division as compared to Bottle Mfg. Division. (\heartsuit)
- 3. Under Cost-based method, there is a better profit at lower level of production in Bottle Mfg. Division. However in Product Mfg. Division
- 12,00,000 production level gives a higher profit. But in Market price method, the position is quite reverse.

Transfer Preicing Methods of Based on Negotiations Cost Based Transfer Buce Based on Market Brice) Variable Manufacturing Cost Here a range'n fixed a Markel- price of Intermediale Analised , like [10-20] (Idle capacity) Product (not he finished Alence here will east 2) Fuil manufacturing Cost (roduct). me, minimum price (Variable + freed) 2) Market price of he (Spare capacity) and another maximum Substitule froduct (in care Price. of unavailability of 3) Total Cast Approach () Minimum Trainfer frice from Intermediate product-, (All cost including The point of view of Transferring in he markel- it is Administrative and Selling/ cistulation con) available in proper (Dinision > NTP > Variable Cost + Specific fixed Costcondition) 4) Standard Con Approach + Opportunity Lon Ef spare apacity is not available) (whatever J will charge) (2) Maximum Transfer Price from the Point -5) Cost + Mark up of Recepieur- Division. (adding profit percentage) (c) Outside Purchase Brice + Buying lass the Cost Transportation () Ability to Pay he. Belling Brice of Recepieul - Own Variable

, which ever in lover.

bransfer Buicing Tranfer Pricing Ruising Decisions YS. when any company or a farent company sell its goods or services to other company (excluding it's subsidiary company), the price it costs is kinown as selling price. « Whereas, a farent- company's subsidiary company. sell or transfer it's goods on services to it's parent. company (internal transfer), the price they charge "is known as thansfer price. het is understand it by the fallowing diapront. Company. Company Inforgs Tata Dept. B Dept. A Infosys Buying types for-their purpose Brocuel B of works . Broduct A (Finished foduct (Tynes) flere transfer pricing Chepter 's not L-80 00 Transfer to applicable, as Dept. B. Taka's Dept. A in In this transfer, transfer selving externally pricing chapter is applicable. Situation 2 Situation 3. Situation 1 Dept.A Dept 'B Dept. A Dept-B Dept-B Dept. A. Stiching froduer_ Dicycle Bicycle. Produces Froduces Bell Jean Shirl-Tranfer pricing Tranfer Pricing Transfer priving is applicable 3 applicable not applicable. As here is no diner behaven me has products, bue both are produced under Same company

Scanned with CamScanner