## APPROACH DOCUMENT FOR PRODUCT COSTING \& INVENTORY VALUATION

## OBJECTIVE:

The objective of this approach paper is to complete the inventory valuation from SAP system. Basis for valuation of inventory can be the periodic weighted average cost, standard cost of product, weighted average cost and net realizable value. The basis of inventory valuation may vary from business to business or product to product for entire group. Here our objective is to cover entire business scenario and product range from the perspective of inventory valuation. Based on finalized basis of valuation for respective business and product solution will be designed and will be applicable uniformly across the group.

## BASIS OF VALUATION:

As we know the basis of valuation for inventory can be as under;

1. Standard cost of product at the start of month
2. Standard cost of product at the end of month
3. Weighted average cost/Moving average price
4. Periodic weighted average cost, (Actual Cost) and
5. Net realizable value

Now we will elaborate each of the basis is detail so that we will be able to decide applicability in various business and product. For the purpose of better understanding let me take a simple example for explanation;

Following explanation is for point no.1, 2 and 3. Here concept of using standard cost for product costing and inventory valuation is explained:

## Example:

## RAW MATERIALS

| Date |  | Price | Nature |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Raw Material | WAC/MAP | Procured |  |
|  |  |  |  |  |
| 1to <br> 30thApril | RM-Stock |  |  |  |
|  |  | Rate $/$ <br> Unit | Quantity | Value |
| 1st April | RM-Opening | 100.00 | 500.00 | $50,000.00$ |

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| 1to <br> 30thApril | RM-Receipt | 120.00 | 500.00 | $60,000.00$ |
| :--- | :--- | :--- | :--- | :--- |
| 1to <br> 30thApril | Sub Total |  |  |  |
| 1to <br> 30thApril | Average price | 110.00 |  |  |
| 1to <br> 30thApril | RM Cons | 110.00 | 405.00 | $44,550.00$ |
|  | Closing stock | 110.00 | 595.00 | $65,450.00$ |

## SEMI FINISHED MATERIALS

| Date |  | Price | Nature |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SFG Material | Standard | Produced |  |  |  |  |
| 1st April | Std.Cost Comp. |  |  |  |  |  |  |
|  |  | Rate | Std.Qty | Cost |  |  |  |
| 1st April | Raw Materials | 100.00 | 2.00 | 200.00 |  |  |  |
| 1st April | Activity Cost | 50.00 | 1.00 | 50.00 |  |  |  |
|  | COP / Unit |  |  | 250.00 |  |  |  |
| 30th April | Std.Cost Comp. |  |  |  |  |  |  |
|  |  | Rate | Std.Qty | Cost |  |  |  |
| 30th April | Raw Materials | 110.00 | 2.00 | 220.00 |  |  |  |
| 30th April | Activity Cost | 55.00 | 1.00 | 55.00 |  |  |  |
|  | COP / Unit |  |  | 275.00 |  |  |  |
|  | SFG Production Order for 200 Units |  |  |  |  |  |  |
|  |  | Std.Rate | Std.Qty | Cost | Actual <br> Rate | Actual Qty | Actual cost |
|  | RM | 100.00 | 400.00 | 40,000.00 | 110.00 | 405.00 | 44,550.00 |
|  | Act.Cost | 50.00 | 200.00 | 10,000.00 | 50.00 | 205.00 | 10,250.00 |
|  | Act.Cost Revl | - |  |  | 5.00 | 205.00 | 1,025.00 |
|  | Cost of Prod |  |  | 50,000.00 |  |  | 55,825.00 |
|  | Goods Rec |  |  |  |  |  | 50,000.00 |
|  | Variance |  |  |  |  |  |  |

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|  |  |  |  |  |  |  | $5,825.00$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | COP / Unit |  |  | 250.00 |  |  | 279.13 |
|  |  |  |  |  |  |  |  |
| 1to <br> 30thApril | SFG-Stock |  |  |  |  |  |  |
|  |  | Rate | Qty | Value | Difference |  |  |
| 1st April | Opening Stock | 250.00 | 100.00 | $25,000.00$ | - |  |  |
| 1to <br> 30thApril | Production | 250.00 | 200.00 | $50,000.00$ | $5,825.00$ |  |  |
|  | Sub Total |  | 300.00 | $75,000.00$ | $5,825.00$ |  |  |
|  | SFG-Cons | 250.00 | 156.00 | $39,000.00$ |  |  |  |
|  | SFG-Sale | 250.00 | 40.00 | $10,000.00$ |  |  |  |
|  | Closing Stock | 275.00 | 104.00 | $28,600.00$ | $2,600.00$ |  |  |

## FINISHED MATERIALS

| Date |  | Price | Nature |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | FG | Standard | Produced |  |  |  |  |
| 1st April | Std.Cost Comp |  |  |  |  |  |  |
|  |  | Rate | Std.Qty | Cost |  |  |  |
| 1st April | SFG Material | 250.00 | 1.00 | 250.00 |  |  |  |
| 1st April | Activity Cost | 100.00 | 1.00 | 100.00 |  |  |  |
|  | COP / Unit |  |  | 350.00 |  |  |  |
| 30th April | Std.Cost Comp |  |  |  |  |  |  |
|  |  | Rate | Std.Qty | Cost |  |  |  |
| 30th April | SFG Material | 275.00 | 1.00 | 275.00 |  |  |  |
| 30th April | Activity Cost | 110.00 | 1.00 | 110.00 |  |  |  |
|  | COP / Unit |  |  | 385.00 |  |  |  |
| $\begin{aligned} & \hline \text { 1to } \\ & \text { 30thApril } \end{aligned}$ | FG Production Order for 150 Units |  |  |  |  |  |  |
|  |  | Std.Rate | Std.Qty | Cost | Actual <br> Rate | Actual Qty | Actual cost |
|  | SFG Material | 250.00 | 150.00 | 37,500.00 | 250.00 | 156.00 | 39,000.00 |

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 PRODUCT COSTING \& INVENTORY VALUATION|  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Act.Cost | 100.00 | 150.00 | $15,000.00$ | 100.00 | 140.00 | $14,000.00$ |
|  | Act.Cost Revl | - |  |  | 10.00 | 220.00 | $2,200.00$ |
|  | Cost of Prod |  |  | $52,500.00$ |  |  | $55,200.00$ |
|  | Goods Rec |  |  |  |  |  | $52,500.00$ |
|  | Variance |  |  |  |  |  | $2,700.00$ |
|  | COP / Unit |  |  |  |  |  | 368.00 |
|  |  |  |  |  |  |  |  |
| 1to <br> 30thApril | FG Stock |  |  |  |  |  |  |
|  |  | Rate | Qty | Value | Difference |  |  |
| 1st April | Opening Stock | 350.00 | 120.00 | $42,000.00$ | - |  |  |
| 1to <br> 30thApril | Production | 350.00 | 150.00 | $52,500.00$ | $2,700.00$ |  |  |
|  | Sub Total |  | 270.00 | $94,500.00$ | $2,700.00$ |  |  |
|  | Sale of FG | 350.00 | 170.00 | $59,500.00$ |  |  |  |
|  | Closing Stock | 385.00 | 100.00 | $38,500.00$ | $3,500.00$ |  |  |

As per the above example the value of RM, SFG and FG as per different basis of valuation will be as under:

| Basis of Valuation | Per unit rate for valuation |  |  |
| :--- | ---: | ---: | ---: |
|  | RM | SFG | FG |
| Standard cost of product at the start of <br> month | NA | 250.00 | 350.00 |
| Standard cost of product at the end of <br> month | NA | 275.00 | 385.00 |
| Weighted average cost and | 110 | NA | NA |
| Net realizable value | NRV | NRV | NRV |

## ACCOUNTING IMPLICATION

## APPROACH DOCUMENT FOR PRODUCT COSTING \& INVENTORY VALUATION

Accounting implication of product costing and inventory valuation for above approach is as under. Following are conceptual journal entries for the purpose of understanding. Based on above example some "T" accounts prepared for important accounts.

Conceptual Journal Entries:

| Accounting Entries for Production \& Inventory valuation |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| SI.No. | Scenario | Debit A/c | Credit A/c | Remark |
| 1 | Procurement of RM | RM Inventory | GR/IR | With purchase value |
| 2 | Consumption of RM | RM Consumption | RM Inventory | Debit on SFG prod. order |
| 3 | Production of SFG | SFG Inventory | SFG Change in stock | Credits on SFG prod order |
| 4 | Settlement of SFG prod order | Prod.Variance | SFG Change in stock | Dr. /Cr. On SFG prod. order |
| 5 | Consumption of SFG | SFG <br> Consumption | SFG Inventory | Debit on FG prod. order |
| 6 | Production of FG | FG Inventory | FG Change in stock | Credits on FG prod. order |
| 7 | Settlement of FG prod order | Prod. <br> Variance | FG Change in stock | Dr. /Cr. On FG prod. order |
| 8 | Revision of standard cost (Increase) | FG/SFG Inventory | Revaluation Difference | On release of Std.Cost |
| 9 | Delivery of SFG/FG for sale | Cost of goods sold | FG/SFG Inventory | With Std.Cost of SFG/FG |

"T" Accounts for important accounts:

## APPROACH DOCUMENT FOR PRODUCT COSTING \& INVENTORY VALUATION

| RM Inventory A/c |  |  |  |
| :---: | :---: | :---: | :---: |
| Credit A/c | Amount | Debit A/c | Amount |
| Opening Bal | 50,000.00 | RM Consumption | 44,550.00 |
| GR/IR | 60,000.00 | Closing Bal | 65,450.00 |
| 110,000.00 |  |  | 110,000.00 |
| SFG Inventory A/c |  |  |  |
| Credit A/c | Amount | Debit A/c | Amount |
| Opening Bal | 25,000.00 | SFG <br> Consumption | 39,000.00 |
| Change in stock | 50,000.00 | Cost of goods sold | 10,000.00 |
| Revaluation Diff | 2,600.00 | Closing Bal | 28,600.00 |
|  | 77,600.00 |  | 77,600.00 |
| FG Inventory A/c |  |  |  |
| Credit A/c | Amount | Debit A/c | Amount |
| Opening Bal | 42,000.00 | Cost of goods sold | 59,500.00 |
| Change in stock | 52,500.00 | Closing Bal | 38,500.00 |
| Revaluation Diff | 3,500.00 |  |  |
|  | 98,000.00 |  | 98,000.00 |
| Production Variance A/c |  |  |  |
| Credit A/c | Amount | Debit A/c | Amount |
| SFG Change in stock | 5,825.00 | Profit \& Loss | 8,525.00 |
| FG Change in stock | 2,700.00 |  |  |
|  | 8,525.00 |  | 8,525.00 |
| Revaluation Diff A/c |  |  |  |
| Credit A/c | Amount | Debit A/c | Amount |
| Profit \& Loss | 5,300.00 | SFG Inventory A/c | 2,600.00 |
|  |  | FG Inventory A/c | 2,700.00 |

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 PRODUCT COSTING \& INVENTORY VALUATION|  | $\mathbf{5 , 3 0 0 . 0 0}$ |  | $\mathbf{5 , 3 0 0 . 0 0}$ |
| :--- | :--- | :--- | :--- |
| Profit \& Loss A/c |  |  |  |
| Amount |  |  |  |
| Credit A/c | Debit A/c | Amount |  |
| Production Variance | $8,525.00$ | Revaluation Diff | $5,300.00$ |
|  |  | Closing Bal | $3,225.00$ |
|  | $8,525.00$ |  | $\mathbf{8 , 5 2 5 . 0 0}$ |

The same example if we have to extend for computation of actual cost, by using standard functionality of SAP system "Actual costing material ledger". Following will be explanation and accounting implications.

## RAW MATERIAL:

Same as explained above i.e. without "Actual costing material ledger"

## SEMI FINISHED MATERIALS:

| Date |  | Price | Nature |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SFG Material | Standard | Produced |  |  |  |  |
| 1st April | Std.Cost Comp. |  |  |  |  |  |  |
|  |  | Rate | Std.Qty | Cost |  |  |  |
| 1st April | Raw Materials | 100.00 | 2.00 | 200.00 |  |  |  |
| 1st April | Activity Cost | 50.00 | 1.00 | 50.00 |  |  |  |
|  | COP / Unit |  |  | 250.00 |  |  |  |
|  |  |  |  |  |  |  |  |
|  | SFG Production Order for 200 Units |  |  |  |  |  |  |
|  |  | Std.Rate | Std.Qty | Cost | Actual Rate | Actual Qty | Actual cost |
|  | RM | 100.00 | 400.00 | 40,000.00 | 110.00 | 405.00 | 44,550.00 |
|  | Act.Cost | 50.00 | 200.00 | 10,000.00 | 50.00 | 205.00 | 10,250.00 |
|  | Act.Cost Revl | - |  |  | 5.00 | 205.00 | 1,025.00 |
|  | Cost of Prod |  |  | 50,000.00 |  |  | 55,825.00 |

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|  | Goods Rec |  |  |  |  |  | $50,000.00$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Variance |  |  |  |  |  | $5,825.00$ |
|  | COP / Unit |  |  | 250.00 |  |  | 279.13 |
|  |  |  |  |  |  |  |  |
| 1to <br> 30thApril | SFG-Stock |  |  |  |  |  |  |
|  |  | Rate | Qty | Value | Difference | PWAC | Total |
| 1st April | Opening Stock | 250.00 | 100.00 | $25,000.00$ | - | 250.00 |  |
| 1to <br> 30thApril | Production | 250.00 | 200.00 | $50,000.00$ | $5,825.00$ | 279.13 |  |
|  | Sub Total |  | 300.00 | $75,000.00$ | $5,825.00$ | 269.42 |  |
|  | SFG-Cons | 250.00 | 156.00 | $39,000.00$ | $3,029.00$ | 269.42 | $42,029.00$ |
|  | SFG-Sale | 250.00 | 40.00 | $10,000.00$ | 776.67 | 269.42 | $10,776.67$ |
|  | Closing Stock | 250.00 | 104.00 | $26,000.00$ | $2,019.33$ | 269.42 | $28,019.33$ |

FINISHED MATERIALS:


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|  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Variance |  |  |  |  |  | $\mathbf{2 , 7 0 0 . 0 0}$ |
|  | COP / Unit |  |  | 350.00 |  |  | $\mathbf{3 6 8 . 0 0}$ |
|  |  |  |  |  |  |  |  |
| 1to <br> 30thApril | FG Stock |  |  |  |  |  |  |
|  |  | Rate | Qty | Value | Difference | PWAC |  |
| 1st April | Opening Stock | 350.00 | 120.00 | $42,000.00$ | - | 350.00 |  |
| 1to <br> 30thApril | Production | 350.00 | 150.00 | $52,500.00$ | $2,700.00$ | 368.00 |  |
|  | Multi Level |  |  |  | $3,029.00$ |  |  |
|  | Sub Total |  | $\mathbf{2 7 0 . 0 0}$ | $\mathbf{9 4 , 5 0 0 . 0 0}$ | $\mathbf{5 , 7 2 9 . 0 0}$ | $\mathbf{3 7 1 . 2 2}$ |  |
|  | Sale of FG | 350.00 | 170.00 | $59,500.00$ | $3,607.15$ | 371.22 | $63,107.15$ |
|  | Closing Stock | 350.00 | 100.00 | $35,000.00$ | $2,121.85$ | 371.22 | $37,121.85$ |

## ACCOUNTING IMPLICATION

Accounting implication of product costing and inventory valuation for above approach is as under. Following are conceptual journal entries for the purpose of understanding. Based on above example some "T" accounts prepared for important accounts.

Conceptual Journal Entries:
All entries as discussed above will be applicable in this scenario as well; however there are some more entries in "Actual costing material ledger"


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|  | For multilevel difference tr.to FG | Multi Lvl.Diff | Single Lvl.Diff | With diff in Std. \& PWAC , Cons Qty, last day of period |
| :---: | :---: | :---: | :---: | :---: |
| 11 | Actual costing run for FG |  |  |  |
|  | For revaluation of FG Inventory | FG Inventory | Single Lvl.Diff | With diff in Std. \& PWAC , Inv. Qty on last day of period |
|  |  |  | Multi Lvl.Diff | Share of $\mathrm{c} / \mathrm{f}$ diff from SFG on a/c of inv.qty |
|  |  |  |  |  |
|  | For revarsal posting of revaluation of SFG Inventory | Single Lvl.Diff | SFG Inventory | With diff in Std. \& PWAC , Inv. Qty on first day of next period |
|  |  | Multi Lvl.Diff |  | Share of c/f diff from SFG on a/c of inv.qty |
|  | For revaluation of COGS | Cost of goods sold | Single Lvl.Diff | With diff in Std. \& PWAC , Sale Qty, last day of period |
|  |  |  | Multi Lvl.Diff | Share of c/f diff from SFG on a/c of sale qty. |

"T" Accounts for important accounts

| RM Inventory A/c |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: |
| Credit A/c | Amount | Debit A/c | Amount |  |
| Opening Bal | $50,000.00$ | RM Consumption | $44,550.00$ |  |
| GR/IR | $60,000.00$ | Closing Bal | $65,450.00$ |  |
|  | $110,000.00$ |  | $110,000.00$ |  |
|  | SFG Inventory A/c- Period 1 |  |  |  |
|  | Amount | Debit A/c | Amount |  |
| Credit A/c | $25,000.00$ | SFG Consumption | $39,000.00$ |  |
| Opening Bal | $50,000.00$ | Cost of goods sold | $10,000.00$ |  |
| Change in stock | $2,019.33$ | Closing Bal | $28,019.33$ |  |
| Single Lvl. | $77,019.33$ |  | $77,019.33$ |  |
|  |  |  |  |  |
|  |  |  |  |  |

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| Credit A/c | Amount | Debit A/c | Amount |
| :---: | :---: | :---: | :---: |
| Closing Bal | 2,019.33 | Single Lvi. | 2,019.33 |
|  | 2,019.33 |  | 2,019.33 |
| FG Inventory A/c- Period 1 |  |  |  |
| Credit A/c | Amount | Debit A/c | Amount |
| Opening Bal | 42,000.00 | Cost of goods sold | 59,500.00 |
| Change in stock | 52,500.00 | Closing Bal | 37,121.85 |
| Single Lvl. | 1,000.00 |  |  |
| Multi Lvl. | 1,121.85 |  |  |
|  | 96,621.85 |  | 96,621.85 |
| FG Inventory A/c- Period 2 |  |  |  |
| Credit A/c | Amount | Debit A/c | Amount |
| Closing Bal | 2,121.85 | Single Lvi. | 1,000.00 |
|  |  | Multi Lvl. | 1,121.85 |
|  | 2,121.85 |  | 2,121.85 |
| Production Variance A/c |  |  |  |
| Credit A/c | Amount | Debit A/c | Amount |
| SFG Change in stock | 5,825.00 | Profit \& Loss | 8,525.00 |
| FG Change in stock | 2,700.00 |  |  |
|  | 8,525.00 |  | 8,525.00 |
| Single Level Diff A/c - Period 1 |  |  |  |
| Credit A/c | Amount | Debit A/c | Amount |
| Profit \& Loss | 8,525.00 | Cost of goods sold(SFG) | 776.67 |
|  |  | Multi Lvl. | 3,029.00 |
|  |  | Cost of goods sold(FG) | 1,700.00 |
|  |  | SFG Inventory | 2,019.33 |

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| :--- | :--- | :--- | :--- | 1,000.00

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 PRODUCT COSTING \& INVENTORY VALUATION|  | $8,525.00$ |  | $8,525.00$ |
| :--- | :--- | :--- | :--- |
|  |  |  | $8,525.00$ |
|  | $8,525.00$ |  |  |
|  |  |  | Amount |
|  | Profit \& Loss A/c - Period 2 |  |  |
| Credit A/c |  |  |  |
| Single Lvl. | $3,019.33$ | Balance | $4,141.19$ |
| Multi Level | $1,121.85$ |  |  |
|  | $\mathbf{4 , 1 4 1 . 1 9}$ |  | $\mathbf{4 , 1 4 1 . 1 9}$ |

## MACRO LEVEL SOLUTION APPROACH:

Primarily there are two important approaches available for product costing and inventory valuation.

1. Standard costing ( Cost estimates at start and end of period)
2. Actual costing ( Using production variance for computation of actual cost)

## Standard costing approach:

In this approach following activities need to be completed /monitored in each period.

1. Review of BOM, Routing and plan activity price used for computation of standard cost estimates, the objective of this is to get the standard cost near to actual cost.
2. Complete all expenditure and material posting before start of period end closing activities.
3. Allocation of service and other non production cost center cost to production cost center.
4. Computation of actual activity price on production cost center.
5. Revaluation of production order with actual activity price.
6. Variance calculation and settlement of production / process order.

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7. Computation of standard cost at the end of period by using the actual activity price and latest moving average price for raw materials. Then release the standard cost for the existing inventory quantity.
"PROS" in this approach are:
8. Based on existing configuration only product costing and inventory valuation can be done.
9. As most of the above steps are already under use so costing department is well versed with the steps therefore quite easy to operate.
"CONS" in this approach are:
10. Inventory always is valued on estimated cost and not the actual cost.
11. Production variance remains in profit and loss account and not allocated to inventory and consumption respectively.

## Actual costing approach:

In this approach following point need to be considered and analyzed over and above the activities listed for standard costing approach:

1. Actual costing material ledger is standard functionality of SAP system, so this feature needs configuration and testing thoroughly in existing system.
2. All cross module process also need to be tested in material ledger scenario.
3. After successful configuration and testing in production system fresh cost estimate need to be released for all the production related materials.
4. Once the material ledger is successfully implemented then at the end of each month actual costing run need to be executed after completion of all controlling period end activities. The execution of actual costing run is a mandatory activity at company code level at the end of each period.
5. Analysis of actual cost and accounting entries gets posted automatically by the actual costing run.
6. Release of actual cost as computed by system as standard cost for further inventory movement and inventory valuation. This can only be done in

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next to next month. I.e. Actual cost for the month of April can only be used in June and not in the month of May.
7. Transfer of actual cost to COPA.
"PROS" in this approach are:

1. Inventory always is valued on actual cost.(Periodic Weighted Avg.Cost)
2. Production variance allocated to inventory and consumption respectively based on proportionate quantity.
"CONS" in this approach are:
3. Require additional configuration and testing in existing system across the modules.
4. As this is a new feature so additional training is also required for costing department for running the actual costing.

## BUSINESS SCENARIO:

Business scenarios are very important for inventory valuation of different materials such as RM, SFG and FG. Scenarios covers production process, stock keeping practice, consumption pattern, price fluctuation of material and accounting practices being followed in organization for inventory valuation. Based on above understanding following we can list following as the business scenarios:

1. Discrete process of production
2. Continuous process of production
3. Consumption of input materials based on standard BOM by using back flushing
4. Consumption of input materials based on actual consumption
5. Price fluctuation of input material is very high
6. Valuation of material in books

Matrix for business scenario and basis of valuation is as under:

| Business Scenario | Basis of Valuation |  |  |  |
| :---: | :--- | :--- | :--- | :--- |
|  | Periodic <br> weighted <br> average cost, | Standard cost <br> of product at <br> the start of | Standard cost <br> of product at <br> the end of | Weighted <br> average cost <br> and |

## APPROACH DOCUMENT FOR <br> PRODUCT COSTING \& INVENTORY VALUATION

|  | (Actual Cost) | month | month |  |
| :--- | :---: | :--- | :--- | :---: |
| Discrete process of production | X |  |  |  |
| Continuous process of <br> production |  |  | X |  |
| Consumption of input materials <br> based on standard BOM by <br> using back flushing |  |  | X |  |
| Consumption of input materials <br> based on actual consumption | X |  |  |  |
| Price fluctuation of input <br> material is very high | X |  | X |  |
| Valuation of material in books- <br> Standard |  |  | X |  |
| Valuation of material in books- <br> WAC/MAP |  |  |  |  |

