

7. STANDARD COSTING

PROBLEM NO: 1

Material	Standard			Actuals		
	SQ	SP	SQ x SP	AQ	AP	AQ x AP
	50	1	50	45	0.8	36

$$M.C.V = SQ \times SP - AQ \times AP = 50 - 36 = 14(F)$$

PROBLEM NO: 2

Material	Standard (2,10,000 kg)			Actuals (2,10,000 kg)			
	SQ	SP	SQ x SP	AQ	AP	AQ x AP	AQ x SP
	For 70kg output - 100kg r/m For 2,10,000kg output - ? 3,00,000 kg	1	3,00,000	2,80,000	0.9 (2,52,000) (2,80,000)	2,52,000	2,80,000

$$\begin{aligned} M.U.V &= SQ \times SP - AQ \times SP \\ &= Rs.3,00,000 - (Rs.2,80,000 \times 1) \\ &= Rs.20,000 (F) \end{aligned}$$

$$\begin{aligned} M.P.V &= AQ \times SP - AQ \times AP \\ &= Rs.2,80,000 - Rs.2,52,000 = Rs.28,000(F) \end{aligned}$$

$$\begin{aligned} M.C.V &= SQ \times SP - AQ \times AP \\ &= Rs.3,00,000 - Rs.2,52,000 = Rs.48,000(F) \end{aligned}$$

PROBLEM NO: 3**Calculation of material variances:**

(1)	(2)	(3)	(4)
SP X SQ(w.n.1)	SP X RSQ(w.n.2)	SP X AQ	AP X AQ
X: 15 X 600	15 X 615	15 X 640	17.50 X 640
Y: 20 X 800	20 X 820	20 X 950	18 X 950
Z: 25 X 1,000	25 X 1,025	25 X 870	27.50 X 870
50,000	51,250	50,350	52,225

Standard quantity = Standard quantity for actual production

$$SQ \text{ of X} = 600 \text{ kgs} \begin{bmatrix} 1 \text{ unit} - 60 \text{ kgs} \\ 10 \text{ units} - ? \end{bmatrix}$$

$$SQ \text{ of Y} = 800 \text{ kgs} \begin{bmatrix} 1 \text{ unit} - 80 \text{ kgs} \\ 10 \text{ units} - ? \end{bmatrix}$$

$$SQ \text{ of Z} = 1,000 \text{ kgs} \begin{bmatrix} 1 \text{ unit} - 100 \text{ kgs} \\ 10 \text{ units} - ? \end{bmatrix}$$

$$\begin{aligned} RSQ &= AQ \text{ re written in standard mix} \\ &= 2,460(640+950+870) \end{aligned}$$



	X	Y	Z
MIX	6	8	10
Quantity	615	820	1,025

Variaces:

Material cost variance = (1)-(4) = 2,225(A)

Material price variance = (3)-(4) = 1,875(A)

Material usage variance = (1)-(3) = 350(A)

Material mix variance = (2) – (3) = 900(F)

Material yield variance = (1) – (2) = 1,250(A)

PROBLEM NO: 4

Particulars	Standards (365kg)				Actual (365kg)				
	SQ	SP	SQ x SP	AQ	AP	AQ x AP	AQ x SP	RSQ	RSQ x SP
Mat A (35%)	134	25	3350	125	27	3375	3125	140	3500
Mat B (65%)	250	36	9000	275	34	9350	9900	260	9360
Input	384 kg		12350	400 kg		12725	13025	400 kg	12860
Loss (5%)	19		35						
Out put	365		365						

M.C.V = SQ x SP – AQ x AP

= Rs.12350 – Rs.12725 = Rs.375 (A)

M.P.V = AQ x SP – AQ x AP

= Rs.13025 – Rs.12725 = Rs.300 (F)

M.M.V = RSQ x SP – AQ x SP

= Rs.12860 – Rs.13025 = Rs.165 (A)

M.Y.V = SP x SQ – RSQ x SP

= Rs.12350 – Rs.12,860 = Rs.510 (A)

PROBLEM NO: 5

	Standards (1000kg)				Actual (1000kg)			
	SQ	SP	SQ x SP	AQ	AP	AQ x AP	AQ x SP	RSQ
R/M A	800 kg (for 10 kg – 8 kg) Out put R / q (for 1000 – ?)	6	4800	750	7	5250	4500	833
R/M B	400 kg (for 10kg – 4kg a R / M) (for 1000 – ?)	4	1600	500	5	2500	2000	417
	1200 kg		6400	1250 kg		7750	6500	1250 kg

M.C.V. = SQ x SP – AQ x AP

= Rs.6400 – Rs.7750 = Rs.1350 (A)

M.P.V = AQ x SP – AQ x AP

= Rs.6500 – Rs.7750 = Rs.1250 (A)

M.U.V = SQ x SP – AQ x SP

= Rs.6400 – Rs.6500 = Rs.100 (A)

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PROBLEM NO: 6**Working Notes:**

- a) Standard input = Actual output / 90% = 2,250 kg / 90% = 2,500 kg.
 Standard input of material- A 2,500 kg. x 40% = 1,000 kg.
 Standard input of material- B 2,500 kg. x 60% = 1,500 kg.
- b) Actual input = (Opening Stock + Purchases – Closing Stock)
 Actual input of material- A (40 kg. + 800 kg. – 20 kg.) = 820 kg.
 Actual input of material- B (50 kg. + 1,800 kg. – 15 kg.) = 1,835 kg.
 Total actual input 2,655 kg.
- c) Standard Cost
 Material- A 1000 kg.@ Rs. 5.00 per kg = Rs. 5,000
 Material- B 1500 kg.@ Rs. 4.00 per kg = Rs. 6,000
Rs.11,000
- d) Actual Cost
 Material- A 40 kg. @ Rs. 5.00 per kg = Rs. 200
 780 kg. @ Rs. 6.00 per kg = Rs. 4,680 = Rs. 4,880
 Material- B 50 kg. @ Rs. 4.00 per kg = Rs. 200
 1,785 kg. @ Rs. 4.20 per kg = Rs. 7,497 = Rs. 7,697
Rs. 12,577
- i) Material Price Variance = Actual Quantity (Std. Rate – Actual Rate)
 Material- A = 40 kg (Rs. 5.00 - Rs. 5.00) = Nil
 780 kg (Rs. 5.00 - Rs. 6.00) = Rs. 780 (A)
 Material- B = 50 kg. (Rs. 4.00 - Rs. 4.00) = Nil
 1785 kg (Rs. 4.00 - Rs. 4.20) = Rs. 357 (A)
Rs. 1,137 (A)
- ii) Material Usage Variance = Std. Rate (Standard Quantity – Actual Quantity)
 Material- A = Rs. 5.00 (1,000 kg. – 820 kg) = Rs. 900 (F)
 Material- B = Rs. 4.00 (1,500 kg. – 1835 kg.) = Rs.1,340 (A)
Rs. 440 (A)
- iii) Material Yield Variance = Std. Rate (Std. Quantity – Revised Std. Quantity)
 Material- A = Rs. 5.00 (1,000 kg. – 2,655 x 40%)
 = Rs. 5.00 (1,000 kg. – 1,062 kg.) = Rs. 310 (A)
 Material- B = Rs. 4.00 (1,500 kg – 2,655 x 60%)
 = Rs. 4.00 (1,500 kg. – 1,593 kg.) = Rs. 372 (A)
Rs. 682 (A)
- iv) Material Mix Variance = Std. Rate (Revised Std. Quantity – Actual Quantity)
 Material- A = Rs. 5.00 (2,655 x 40% - 820 kg.)
 = Rs. 5.00 (1,062 kg. – 820 kg) = Rs. 1,210 (F)
 Material- B = Rs. 4.00 (2,655 x 60% - 1,835 kg.)
 = Rs. 4.00 (1,593 kg. – 1,835 kg.) = Rs. 968 (A)
Rs. 242 (F)
- v) Material Cost Variance = Std. Cost – Actual cost
 = Rs. 11,000 - Rs. 12,577 = Rs. 1,577 (A)

PROBLEM NO: 7**i) Standard cost for Actual output:**

$$\begin{aligned} \text{Material X} &= 1,500 \text{ units} \times 2,000 \text{ kg.} \times \text{Rs. } 1 &= 30,00,000 \\ \text{Material Y} &= 1,500 \text{ units} \times 2,000 \text{ kg.} \times \text{Rs. } 1 &= \underline{30,00,000} \quad \text{Rs. } 60,00,000 \end{aligned}$$

ii) Material Cost Variance:

$$\begin{aligned} &= \text{Standard Cost for actual output} - \text{Actual Cost} \\ &= (\text{SQ} \times \text{SP}) - (\text{AQ} \times \text{AP}) \\ \text{Material X} &= \{30,00,000 - (31,00,000 \text{ kg.} \times \text{Rs. } 1.10)\} \\ &= 30,00,000 - 34,10,000 &= 4,10,000 \text{ (A)} \\ \text{Material Y} &= \{30,00,000 - (31,00,000 \text{ kg.} \times \text{Rs. } 1.10)\} \\ &= 30,00,000 - 34,10,000 &= 4,10,000 \text{ (A)} \end{aligned}$$

iii) Material Price Variance:

$$\begin{aligned} &= \text{AQ} (\text{SP} - \text{AP}) \\ \text{Material X} &= 31,00,000 \text{ kg.} (\text{Rs. } 1.00 - \text{Rs. } 1.10) &= 3,10,000 \text{ (A)} \\ \text{Material Y} &= 12,50,000 \text{ kg.} (\text{Rs. } 1.00 - \text{Rs. } 1.60) &= 7,50,000 \text{ (A)} \quad 10,60,000 \text{ (A)} \end{aligned}$$

iv) Material Usage Variance:

$$\begin{aligned} &= \text{SP} (\text{SQ} - \text{AQ}) \\ \text{Material X} &= \text{Rs. } 1.00 \{(1,500 \times 2,000) - 31,00,000\} \\ &= 30,00,000 - 31,00,000 &= 1,00,000 \text{ (A)} \\ \text{Material Y} &= \text{Rs. } 1.00 \{(1,500 \times 2,000) - 12,50,000\} \\ &= \text{Rs. } 1.00 (30,00,000 - 12,50,000) &= 17,50,000 \text{ (F)} \quad = 16,50,000 \text{ (F)} \end{aligned}$$

PROBLEM NO: 8

Standard and actual costs of material for actual output:

Material	SQ	SP (.)	SQ × SP (.)	AQ	AQ × AP (.)	AQ × SP (.)
A	31,000*	20	6,20,000	32,500	6,59,750	6,50,000
B	69,000**	10	6,90,000	67,000	6,83,400	6,70,000
	1,00,000		13,10,000	99,500	13,43,150	13,20,000

*Material A- $11,000 \times 2 + 9,000 \times 1 = 31,000$ units

**Material B- $11,000 \times 3 + 9,000 \times 4 = 69,000$ units

i) Material Price Variance = Actual Quantity (Std. Price – Actual Price)

$$\begin{aligned} &= \text{AQ} \times \text{SP} - \text{AQ} \times \text{AP} \\ &= 13,20,000 - 13,43,150 = 23,150 \text{ (Adverse)} \end{aligned}$$

ii) Material Usage Variance = Std. Price (Std. Qty. – Actual Qty.)

$$\begin{aligned} &= \text{SP} \times \text{SQ} - \text{SP} \times \text{AQ} \\ &= 13,10,000 - 13,20,000 = 10,000 \text{ (Adverse)} \end{aligned}$$

iii) Material Cost Variance = Std. Qty. × Std. Price – Actual Qty. × Actual Price

$$= 13,10,000 - 13,43,150 = 33,150 \text{ (Adverse)}$$

PROBLEM NO: 9

Standard			Actuals			
SH	SR	SH x SR	AH	AR	AH x AR	AH x SR
1000	0.5	500	900	0.4	360	450

$$\begin{aligned} \text{L.C.V} &= \text{SH} \times \text{SR} - \text{AH} \times \text{AR} \\ &= \text{Rs.}500 - \text{Rs.}360 = \text{Rs.}140 \text{ (F)} \\ \text{L.E.V} &= \text{SH} \times \text{SR} - \text{AH} \times \text{SR} \\ &= \text{Rs.}500 - \text{Rs.}450 = \text{Rs.}50 \text{ (F)} \\ \text{L.R.V} &= \text{AH} \times \text{SR} - \text{AH} \times \text{AR} \\ &= \text{Rs.}450 - \text{Rs.}360 = \text{Rs.}90 \text{ (F)} \end{aligned}$$

PROBLEM NO: 10

SR – Standard labour Rate per Hour

AR – Actual labour rate per hour

SH – Standard Hours

AH – Actual hours

i) Actual labour rate per hour:

$$\begin{aligned} \text{Labour rate Variance} &= \text{AH} (\text{SR} - \text{AR}) \\ &= 17,094 (\text{Rs.}8 - \text{AR}) = -68,376 \text{ (A)} = -68,376 \\ &= \text{Rs.}8 - \text{AR} = -4 \\ \text{Or, AR} &= \text{Rs.}4 \end{aligned}$$

ii) Standard hour required for 6,000 units:

$$\begin{aligned} \text{Labour Efficiency} &= \frac{\text{SH}}{\text{AH}} \times 100 = 105.3 \\ &= \text{SH} = \frac{\text{AH} \times 105.3}{100} = \frac{17,094 \text{ hours} \times 105.3}{100} \\ &= 17,999.982 \text{ or, SH} = 18,000 \text{ hours} \end{aligned}$$

iii) Labour Efficiency Variance

$$\begin{aligned} &= \text{SR} (\text{SH} - \text{AH}) \\ &= \text{Rs.}8(18,000 - 17,094) \\ &= 8 \times 906 = \text{Rs.}7,248 \text{ (F)} \end{aligned}$$

iv) Standard Labour Cost per Unit

$$= \frac{18,000 \text{ hours} \times \text{Rs}8}{6,000 \text{ units}} = \text{Rs}24$$

v) Actual Labour Cost per Unit

$$= \frac{17,094 \text{ hours} \times \text{Rs}12}{6,000 \text{ units}} = \text{Rs}34.19$$

NOTE: Actual hours required : 17,094 hours(it is omitted in problem. Students have to consider it, while solving this problem)

PROBLEM NO: 11

Abnormal idle time : 200 x ½ day = 100 men days
 Actual time attended : 200 x 50 days = 10,000 men days
 Actual time worked : 10,000 – 100 = 9,900 men days
 Actual production : 9,00,000 units

Standard requirements for actual production:

Material : 9,00,000units / 1,00,000units = 9 tons or 9,000 kg.

Labour : 9,00,000 / 100 = 9,000 men days

Material Price Variance (Rs.)

(Standard price – Actual price) × Actual quantity

(Rs. 20 – Rs. 21) × 10,000 kg. 10,000 (A)

Material Usage Variance

(Standard usage – Actual usage) × Standard price

(9,000 kg. – 10,000 kg.) × Rs. 20 20,000 (A)

Total material variance 30,000 (A)

Labour rate variance

(Standard rate – Actual rate) × Actual man days attended

(Rs. 6 – Rs. 6.50) × 10,000 hours 5,000 (A)

Labour efficiency variance

(Standard man days – Actual man days worked) × Standard rate

(9,000 – 9,900) × Rs.6 5,400 (A)

Idle time variance

Idle man days x Standard rate

100 x Rs.6 600 (A)

Total labour variance 11,000 (A)

PROBLEM NO: 12

Efficiency Ratio can be obtained by dividing the activity ratio by capacity ratio as follows:-

$$\begin{aligned} \text{Efficiency Ratio} &= \frac{\text{Activity ratio}}{\text{Capacity ratio}} \times 100 \\ &= \frac{104\%}{96\%} \times 100 = 108.33\% \end{aligned}$$

The inter – relationship is shown below:

$$\text{Activity Ratio} = \frac{\text{Std.hours for actual production}}{\text{BudgetedHours}} \times 100$$

$$\text{Capacity ratio} = \frac{\text{Actual Working hours}}{\text{BudgetedHours}} \times 100$$

$$\text{Efficiency ratio} = \frac{\text{Std.hours for actual production}}{\text{Actualhours worked}} \times 100$$

$$\text{i.e. Efficiency Ratio} = \frac{\text{Activity ratio}}{\text{Capacity ratio}}$$

$$= \frac{\text{Std.hours for actual production}}{\text{BudgetedHours}} \times \frac{\text{Budgeted Hours}}{\text{Actual hours worked}} \times 100$$

$$= \frac{\text{Std.hours for actual production}}{\text{Actualhours worked}} \times 100$$

$$\text{Activity Ratio} = \text{Capacity Ratio} \times \text{Efficiency Ratio}$$

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PROBLEM NO: 13

$$\text{Efficiency Ratio} = \frac{\text{Actual output in terms of standard hours}}{\text{Actual hour worked}} \times 100$$

$$\text{or, } \frac{60 \text{ units} \times 8 \text{ hours}}{500 \text{ hours}} \times 100 \quad \text{or, } \frac{480 \text{ hours}}{500 \text{ hours}} \times 100 = 96\%$$

$$\text{Capacity Ratio} = \frac{\text{Actual hours worked}}{\text{Budgeted Hours}} \times 100$$

$$\text{or, } \frac{500 \text{ hours}}{80 \text{ units} \times 8 \text{ hours}} \times 100 \quad \text{or, } \frac{500 \text{ hours}}{640 \text{ hours}} \times 100 = 78.12\%$$

PROBLEM NO: 14

Calculation of Fixed OH Variance:

(1)	(2)	(3)	(4)	(5)
SR X SH	SR X AH	SR X RBH	SR X BH	AR X AH
1.50 X 22,000	-	-	1.50 X 20,000	31,000 (given)
33,000			30,000	

WORKING:

$$\begin{aligned} \text{(1) SR} &= \text{Fixed OHRR per unit} \\ &= \frac{30,000}{20,000} = \text{Rs. 1.50 per unit} \end{aligned}$$

Variances:

- (i) FOH Volume Variance = (1) – (4) = 3,000 (F)
- (ii) FOH Expenditure Variance = (4) – (5) = 1,000 (A)
- (iii) FOH Cost Variance = (1) – (5) = 2,000 (F)

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PROBLEM NO: 15

FOH Variances

SH x SR	AHW x SR (or) AHW x BR	RBH x SR (or) RBH x BR	BH x SR (or) BH x BR	AHW x AR
21,000 x 0.5	22,000 x 0.5	20,000 x 0.5	20,000 x 0.5	22,000 x 0.54
Rs.10,500	Rs.11,000	Rs.10,000	Rs.10,000	Rs.12,000

$$\text{SR} = \text{BR} = \frac{\text{BOH}}{\text{BH}} = \frac{10,000}{20,000} = \text{Rs.0.5}$$

$$\text{BH} = 2000 \times 10 = 20,000 \text{ hrs}$$

$$\text{SH} = 2,100 \times 10 = 21,000 \text{ hrs}$$

$$\begin{pmatrix} 1 \text{ unit} & - & 10 \text{ hr} \\ 2,100 & - & ? \end{pmatrix}$$

$$\text{AR} = \frac{\text{AOH}}{\text{AH}} = \frac{12,000}{22,000} = \text{Rs.0.54}$$

$$\text{RBH} = \text{BH} = 20,000 \text{ hrs}$$

$$1. \text{ FOH cost variance} = \text{SH} \times \text{SR} - \text{AH} \times \text{AR} = 10,500 - 12,000 = \text{Rs.1,500 (A)}$$

2. FOH exp. variance = BH x SR - AH x AR = 10,000 – 12,000 = Rs.2,000 (A)
 3. FOH volume variance = SH x SR – BH x SR = 10,500 – 10,000 = Rs.500 (F)
 4. FOH Capacity variance = AH x SR – RBH x SR = 11,000 – 10,000 = Rs.1,000 (F)
 5. FOH efficiency variance = SH x SR – AH x SR = 10,500 – 11,000 = Rs.500 (A)

PROBLEM NO: 16**Calculation of FOH Variances:**

(1)	(2)	(3)	(4)	(5)
SR X SH	SR X AH	SR X RBH	SR X BH	AR X AH
1 X 1,53,090	1 X 1,70,100	1 X 1,62,000	1,50,000 (Given)	1,56,000 (Given)
= 1,53,090	1,70,100	1,62,000		

Working note:

$$(1) \text{ SR} = \frac{\text{Budgeted OH}}{\text{Budgeted hrs}} = \frac{1,50,000}{(25 \text{ days} \times 6,000)} = \text{Rs. 1 per hour}$$

$$(2) \text{ RBH} = \text{BH for actual days worked}$$

$$= 1,62,000 \left[\begin{array}{l} 25 \text{ days} - 1,50,000 \\ 27 \text{ days} - ? \end{array} \right]$$

Variances:

$$\text{FOH Expenditure Variance} = (4) - (5) = 6,000 (A)$$

$$\text{FOH Volume Variance} = (1) - (4) = 3,090 (F)$$

$$\text{FOH Cost Variance} = (1) - (5) = 2,910 (A)$$

PROBLEM NO: 17**Basic calculation:**

Product	BQ x BP	AQ x AP	AQ x BP
A	2,000 x 2.50 = Rs.5,000	2,400 x 3.00 = Rs. 7,200	2,400 x 2.50 = Rs. 6,000
B	1,500 x 5.00 = Rs.7,500	1,400 x 4.50 = Rs. 6,300	1,400 x 5.00 = Rs. 7,000
C	1,000 x 7.50 = Rs. 7,500	1,200 x 7.00 = Rs. 8,400	1,200 x 7.50 = Rs. 9,000
D	500 x 10.00 = Rs. 5,000	400 x 10.50 = Rs. 4,200	400 x 10.00 = Rs. 4,000
Total	Rs. 25,000	Rs. 26,100	Rs. 26,000

Computation of Variances

$$\begin{aligned} \text{Sales Price Variance} &= \text{Actual quantity (Actual price – Budgeted price)} \\ &= (\text{AQ} \times \text{AP}) - (\text{AQ} \times \text{BP}) \\ &= \text{Rs. 26,100} - \text{Rs. 26,000} = \text{Rs. 100 (F)} \end{aligned}$$

$$\begin{aligned} \text{Sales Volume Variance} &= \text{Budgeted price (Actual quantity – Budgeted quantity)} \\ &= (\text{BP} \times \text{AQ}) - (\text{BP} \times \text{BQ}) \\ &= \text{Rs. 26,000} - \text{Rs. 25,000} = \text{Rs. 1,000 (F)} \end{aligned}$$

$$\begin{aligned} \text{Total variance} &= \text{Actual sales – Budgeted sales} \\ &= \text{Rs. 26,100} - \text{Rs. 25,000} = \text{Rs. 1,100 (F)} \end{aligned}$$

PROBLEM NO:18**FOH Variance :- (HOURS BASIS)**

SH×BR (1)	AHW×BR (2)	RBH×BR (3)	BH×BR (4)	AHW×AR (5)
1000×5	800×5	1200×5	1200×5	800×8
5000	4000	6000	6000	6400

$$BR = \frac{BOH}{BH} = \frac{6000}{1200} = \text{Rs.5.}$$

$$\text{OH Volume Variances} = 1 - 4 = 1000 \text{ (A)}$$

$$SH \times BR - 6000 = -1000$$

$$SH \times BR = 5000$$

$$SH \times 5 = 5000$$

$$SH = 1000 \text{ hr.}$$

$$\text{OH Cost Variances} = 1 - 5 = 1400 \text{ (A)}$$

$$SH \times SR - AH \times AR = -1400$$

$$1000 \times 5 - AH \times AR = -1400$$

$$AH \times AR = 6400$$

$$AH \times 8 = 6400$$

$$AH = 800 \text{ hrs.}$$

$$1. \text{ OH Exp Var} = 4 - 5 = \text{RS.400 (A)}$$

$$2. \text{ Act OH} = \text{RS.6400}$$

$$3. \text{ AHW} = 800 \text{ hr.}$$

$$4. \text{ OH Capacity Variance} = 2 - 3 = 2000 \text{ (A)}$$

$$5. \text{ OH Eff. Variance} = 1 - 2 = 1000 \text{ (F)}$$

$$6. \text{ SH} = 1000 \text{ hr.}$$

PROBLEM NO:19**1. Material Cost Variance:**

$$SP = 10$$

$$SQ = 48,000 \text{ Kg} \begin{bmatrix} 1 \text{ ut} & -10 \text{ kgs} \\ 4,800 & - ? \end{bmatrix}$$

$$a) SP \times SQ = 10 \times 48,000 = 4,80,000$$

$$b) AP \times AQ = (\text{given}) = 5,25,000$$

$$c) \text{ Material Cost Variance (a - b)} = 45,000 \text{ (A)}$$

2. Labour Cost Variance:

$$SR = 5.50$$

$$SH = 28,800 \text{ hrs} \begin{bmatrix} 1 \text{ ut} & -6 \text{ hrs} \\ 4,800 & - ? \end{bmatrix}$$

$$a) SR \times SH = 5.50 \times 28,800 = 1,58,400$$

$$b) AR \times AH = 1,55,000$$

$$c) \text{ Labour Cost Variance (a - b)} = 3,400 \text{ (F)}$$

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3. FOH Cost Variance:

$$SR = \frac{\text{Rs. } 4,50,000}{30,000 \text{ hrs}} = \text{Rs. } 15 \text{ per hour}$$

a) $SR \times SH = 15 \times 28,800 = 4,32,000$

b) $AR \times AH = 4,70,000$

c) FOH Cost Variance $(a - b) = 38,000 \text{ (A)}$

4. VOH Cost Variance:

$$\begin{aligned} \text{VOH Cost Variance} &= (SR \times SH) - (AR \times AH) \\ &= (10 \times 28,800) - (2,93,000) \\ &= 5,000 \text{ (A)} \end{aligned}$$

THE END

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