1. Direct Material Cost

A = 60000/10000 = Rs. 6

B = 50000/10000 = Rs. 5

2. Direct Labour cost

Take data of 1st and 3rd quarter

Variable labour cost = 50000 / 5000 = Rs. 10 per unit. (Don't take data of 2nd quarter as OT will also be there)

Fixed Labour Cost = Rs. 80,000

Variable labour cost in quarter IV = $10 \times 80\% \times 112.5\% = Rs. 9$

New Fixed labour cost in quarter IV = 80000 x 112.5% = Rs. 90,000

3. Manufacturing Overheads

Take data of 1st and 2nd quarter

Variable cost = 30000 / 10000 = Rs. 3 per unit

Fixed Cost = Rs. 60,000. New Fixed cost in quarter IV = $60000 \times 120 = Rs$. 72,000

4. S & D Overheads

Take data of 1st and 2nd quarter

Variable cost = 16000 / 80000 = Rs. 2 per unit.

Fixed Cost = Rs. 20,000

New Fixed cost in quarter IV = $20000 \times 120\% = Rs. 24,000$

Summary of the Cost for the quarter IV

	Fixed	Variable
Direct Materials – A		6
Direct Materials – B		5
Production Labour	90,000	9 (Normal) & 13.5
Manufacturing Overhead Ex. Depreciation	72,000	3
Depreciation of Production Machinery	20,000	
Administration Expenses	25,000	
Selling & Distribution Expenses	24,000	2

(ii) Flexible Budget Of Production Costs For The Quarter IV

Number of units	15,000	18,000	21,000
Direct Materials A - @ Rs. 6	90,000	108,000	126,000
Direct Materials B - @ Rs. 5	75,000	90,000	105,000
Direct Labour – Fixed	90,000	90,000	90,000
Direct Labour - Variable @ Rs. 9	135,000	162,000	171,000
Direct Labour - Variable @ Rs. 13.5			27,000
Manufacturing overheads - Fixed	72,000	72,000	72,000
Manufacturing overheads - variable @ Rs. 3	45,000	54,000	63,000
Depreciation of Production Machinery	20,000	20,000	20,000
TOTAL PRODUCTION COST	527,000	596,000	674,000
S & D overheads – Fixed	24,000	24,000	24,000
S & D overheads - variable @ Rs. 2	30,000	36,000	42,000
Administration Expenses	25,000	25,000	25,000
TOTAL COST	606,000	681,000	765,000

C	alculation of S	elling Pri	ce			
Direct Materials	P	3 *		18		
	Q	1.5	* 4	6	24	
Direct Labour	Machine Sho	p 7 *	4	28		
	Assembly Sh	10p 2.5	* x 3.2	8	36	
Overheads					12	
Total Cost					72	
(+) Profit					18	
SP					90	
					AST	
Production Budg	et					
Sales		12,60	0,000		7	
÷ SP			90		/	
Qty Sold of FG	-	140	0,000			
(+) Closing Stock	OF FG	25	5,000			
(-) Opening Stock	of FG	(20	0,000)			
Qty Produced of	FG	145	5,000			
(a) Purchase Bud	lget	P			Q	
Qty consumed of		435,000		217,	500	
(+) Closing Stock		30,000		66,0	000	
(-) opening Stock	Secretary of the second	(54,000)		(33,0)	00)	
Qty Purchased of	RM	411,000		250,	500	
x CPU		6			4	
Purchase Cost		2,466,000	1	,002,0	000	
(b)	- 13		A Pro-	1		4
		Machine	Shop	Asse	mbl	y Shop

10,15,000

1,840

552

600

48

Hours required for production

÷ hours per worker per year

Number of workers required

Number of workers available

Surplus workers

Short workers

Comments: Comments: Number of workers required 552 & 198. There are surplus 48 workers in machine shop and deficit of 18 workers in assembly department. If it is possible then shift 18 workers from machine shop to assembly and remove the rest in machine shop. If it is not possible to shift the workers because of wage rate difference, then remove 48 workers from machine shop and recruit 18 more workers in assembly. Alternately, if workers do not agree to shift, company can resort to overtime.

3,62,500

1840

198

180

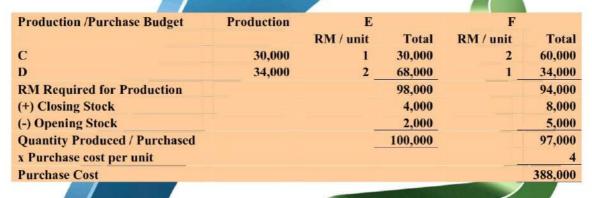
18

Sales Budget	A	В
Quantity Sold of Finished Goods	5,000	8,000
x Selling Price	400	600
Sales	2,000,000	4,800,000

Production Budget	A	В
Quantity Sold of Finished Goods	5,000	8,000
(+) Closing Stock of Finished Goods	2,000	5,000
(-) Opening Stock of Finished Goods	3,000	4,000
Quantity Produced of Finished Goods	4,000	9,000

Production Budget	Production	C		D	
		RM / unit	Total	RM / unit	Total
A	4,000	3	12,000	2	8,000
В	9,000	2	18,000	3 _	27,000
RM Required for Production			30,000		35,000
(+) Closing Stock			12,000		3,000
(-) Opening Stock			10,000		4,000
Quantity Produced			32,000		34,000

30,000
3,000
27,000
32,000
5,000



Purchase Budget	Production	G	:
		RM / unit	Total
E	100,000	2	200,000
RM Required for Production			200,000
(+) Closing Stock			12,000
(-) Opening Stock			2,000
Qty to be purchased			210,000
x Purchase cost per unit			6
Purchase Cost			1,260,000

Labour	budget				
Item		Skilled	Labour	Unskilled	Labour
	Production Qty	Hours	Cost	Hours	Cost
A	4,000	8,000	40,000	20,000	40,000
В	9,000	36,000	180,000	18,000	36,000
C	30,000	210,000	1,050,000	30,000	60,000
D	34,000	102,000	510,000	136,000	272,000
E	100,000	200,000	1,000,000	100,000	200,000
			2,780,000		608,000

	PRODUCTION BUDGET Quantity Sold of Finished G (+) Closing Stock of Finishe (-) Opening Stock of Finishe Quantity Produced of Finish	d Goods ed Goods	20 2	rd Deluxe 00 600 25 25 46 73 79 552	25 64	300 25 69	
	PURCHASE BUDGET OF CABINETS	Production	A	В	C	D	Total
	Standard	179	179				
	Deluxe	552		552			
	Aristocrat	461			461		
	Royal	256				256	
	Total Requirement for production		179	552	461	256	
	(+) Closing Stock		15	15	15	15	
	(-) Opening Stock		30	40	20	25	
	Qty purchased of Raw Material		164	527	456	246	
	x Purchase cost		200	300	500	700	
H	Purchase Cost		32,800	158,100	228,000	172,200	591,100
	Purchase Budget of Transformers	Produc	ction	X	Y	Total	
	Standard		179	179			
	Deluxe		552	552			
	Aristocrat		461		461		
	Royal		256		256		
	Total Requirement for production			731	717		
	(+) Closing Stock			20	20		
	(-) Opening Stock			31	17		
	Qty purchased of Raw Material			720	720		
	x Purchase cost		_	200	300		
	Purchase Cost			144,000	216,000	360,000	
	Purchase Budget of Speakers	Productio	240	5 inch	6 inch 1	2 inch	Total
	Standard Standard	17		179	o men 1	2 men	Total
	Deluxe	55		552			
	Aristocrat	46		332	461		
	Royal	25				256	
	Total Requirement for production		arch	731	461	256	
	(+) Closing Stock			30	30	30	

Standard	179	179			
Deluxe	552	552			
Aristocrat	461		461		
Royal	256			256	
Total Requirement for production		731	461	256	
(+) Closing Stock		30	30	30	
(-) Opening Stock		27	47	18	
Qty purchased of Raw Material		734	444	268	
x Purchase cost		300	400	600	
Purchase Cost		220,200	177,600	160,800	558,600

PURCHASE BUDGET OF PICTURE TUBE	Production	OWN	BEL	TELETUBE	Total
Standard	179	179			
Deluxe	552		552		
Aristocrat	461		461		
Royal	256			256	
Total Requirement for production		179	1,013	256	
(+) Closing Stock		30	40	20	
(-) Opening Stock		20	17	34	
Qty purchased of Raw Material		189	1,036	242	
x Purchase cost	_	-	1,200	1,600	
Purchase Cost		12	1,243,200	387,200	1,630,400

TOTAL PURCHASE COST = 3,140,100