

3. LABOUR**PROBLEM NO: 1**

Statement showing the Earnings of an employee 'X' of ABC & co

| Particulars | Amount (Rs.) |
|--|-----------------|
| a) Basic salary(Rs.1,000/- x 12 months) | 12,000/- |
| b) Dearness Allowance(Rs.200x12 months) | 2,400/- |
| c) Bonus @ 20% of salary & DA [(Rs.12,000+2,400)x20%] | 2,880/- |
| d) Other Allowance (Rs.250x12 months) | 3,000/- |
| Employer's Contribution to PF [(12,000+2,400) x10%] | 1,440/- |
| e) Total Earnings | 21,720/- |

$$\begin{aligned}\text{No of hours effectively worked by the employee} &= \text{Total hours} - \text{Non productive hours} \\ &= 2,400 - 400 \\ &= 2,000 \text{ hours}\end{aligned}$$

$$\begin{aligned}\therefore \text{Effective hourly cost of employee 'X'} &= \text{Total Earnings}/2000 \text{ hrs} \\ &= \text{Rs.}21,720/2000\text{hr} \\ &= \text{Rs}10.86 \text{ per hour}\end{aligned}$$

PROBLEM NO: 2

Calculation of Earnings of A & B for a month

| Particulars | A (Rs.) | B (Rs.) |
|--|-------------------|------------------|
| Basic wages | 100 | 160 |
| Dearness Allowance | (100x50%) 50 | (160x 50%) 80 |
| Contribution to provident fund | (150x10%) 15 | (240x10%) 24 |
| Contribution to Employee stock insurance | (150x4.75%) 7.125 | (240x4.75%) 11.4 |
| Total | 172.125 | 275.4 |

Calculation of overtime wages

$$A = (\text{Rs.}150/200\text{hrs}) \times 10\text{hrs} \times 200\% = \text{Rs.}15/-$$

Apportionment of worker A & worker B to different jobs like X, Y, Z.

| Particulars | Job-X (Rs.) | Job-Y (Rs.) | Job-Z (Rs.) |
|--------------|---------------|-----------------|-----------------|
| Worker A | 68.85 | 51.6375 | 51.6375 |
| Worker B | 137.7 | 55.08 | 82.62 |
| Overtime | - | 15 | - |
| Total | 206.55 | 121.7175 | 134.2575 |

PROBLEM NO: 3

Statement Showing Computation of Effective Hourly Rate/Cost:

| Particulars | Amount (Rs.) |
|--|--------------|
| Salary (250 x 12) | 3,000 |
| Dearness Allowance (on 1 st 100 = 400) (on 2 nd 100 = 100) (on 3 rd 100 = 25) 525 x 12 | 6,300 |
| Salary + DA | 9,300 |
| ESI (4% of 9300) | 372 |
| EPF (8% of 9300) | 744 |
| Bonus (20% of 9300) | 1860 |

| | | |
|------------------------------|--------------|------------------|
| Other Allowances | | 2725 |
| TOTAL COST | (A) | 15,001 |
| Particulars | | Hours |
| No. of Hours Worked | 2400 | |
| (-) Normal Idle Time | <u>400</u> | |
| NET PRODUCTIVE HOURS | (B) | 2000 |
| EFFECTIVE HOURLY RATE | (A/B) | 7.5005/hr |

Calculation of Sales Value:

| | |
|--|-----|
| Raw Materials (Equals to A's Earnings) | 135 |
| Labour Cost | 135 |
| Prime Cost | 270 |
| Overheads (100% of Prime Cost) | 270 |
| Cost of Production (90%) | 540 |
| Profit (10%) | 60 |
| Sales Value (100%) | 600 |

WORKING NOTE:**Earnings of A:**

| | | |
|-----------------------|---|-------|
| No. of Effective Hrs. | = | 18 |
| Hourly Rate | = | 7.50 |
| Total Earnings | = | 135/- |

Note: Employee Contribution to PF & ESI are treated as Savings and not the Earnings of the Worker. So, not included in Total Labour Cost.

PROBLEM NO: 4**Calculation of wages on the basis of time**

A = 40 hours x Rs. 75 per hour = Rs.3,000/-

B = 60 hours x Rs. 80 per hour = Rs.4,800/-

C = 44 hours x Rs. 50 per hour = Rs.2,200/-

Rs.10,000/-

∴ Bonus amount = Actual payment – Time wages
= 15,000 - 10,000 = Rs.5,000/-

% of bonus = (5,000/10,000) x 100 = 50% on time wages

Statement showing the earnings per hour for each worker

| Worker | Time basis wages (1) (Rs.) | Bonus (2) (Rs.) | Total (3)=(1)+(2) (Rs.) | Earnings per hour (Rs.) |
|--------|----------------------------|-------------------|-------------------------|-------------------------|
| A | 3000 | (3000 x 50%) 1500 | 4,500 | (4500 / 40hrs) 112.5 |
| B | 4800 | (4800 x 50%) 2400 | 7,200 | (7200 / 60hrs) 120 |
| C | 2200 | (2200 x 50%) 1100 | 3,300 | (3300 / 44hrs) 75 |

PROBLEM NO: 5**Given Data**

Rate per hour (R.P.H) = Rs.6

Time allowed (T.A) = 8 Hours

Time Taken (H.W) = 6 Hours

Time Saved (T.S) = 2 Hours

Earnings of a worker under Halsey system = (H.W x R.P.H) + (½) (T.S x R.P.H)

$$\begin{aligned}
 &= (6 \text{ hrs} \times \text{Rs.}6) + \left(\frac{1}{2}\right) (2 \text{ hrs} \times \text{Rs.} 6) \\
 &= 36 + 6 \\
 &= \text{Rs.}42/-
 \end{aligned}$$

Earnings of a worker under Rowan scheme = $(H.W \times R.P.H) + (T.S/T.A) (H.W \times R.P.H)$

$$\begin{aligned}
 &= (6 \text{ hrs} \times \text{Rs.} 6) + \left(\frac{2 \text{ hours}}{8 \text{ hours}}\right) (6 \text{ hours} \times \text{Rs.} 6) \\
 &= 36 + 9 \\
 &= \text{Rs.}45/-
 \end{aligned}$$

Note:

H.W = Hours worked

R.P.H = Rate per Hour

T.S = Time Saved

PROBLEM NO: 6

From the given data

Time taken (No. of hours worked) = $(9\text{hrs} + 9\text{hrs} + 9\text{hrs} + 9\text{hrs} + 4\text{hrs}) = 40 \text{ hrs}$

Time Allowed (No. of hours allowed) = $2000 \text{ units}/40 \text{ units per hour}$

$$= 50\text{hrs}$$

∴ Time saved = Time allowed – Time Taken

$$= 50 \text{ hrs} - 40 \text{ hrs}$$

$$= 10 \text{ hrs.}$$

Rate per hour (Given) = Rs.25/hour

Earnings of the worker under Halsey plan = $(H.W \times R.P.H) + \left(\frac{1}{2}\right) (T.S \times R.P.H)$

$$= (40 \text{ hours} \times \text{Rs.}25) + \left(\frac{1}{2}\right) (10 \text{ hours} \times \text{Rs.} 25)$$

$$= \text{Rs.} 1,000 + \text{Rs.} 125$$

$$= \text{Rs.}1,125$$

Earnings of the worker under Rowan plan = $(H.W \times R.P.H) + (T.S/T.A) (H.W \times R.P.H)$

$$= (40 \text{ hours} \times \text{Rs.} 25) + \frac{10 \text{ hours}}{50 \text{ hours}} \times 40 \text{ hours} \times \text{Rs.} 25$$

$$= \text{Rs.} 1,000 + \text{Rs.} 200 = \text{Rs.}1200$$

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PROBLEM NO: 7

From the given data

Time taken = $(9\text{hrs} + 9\text{hrs} + 9\text{hrs} + 9\text{hrs} + 9\text{hrs} + 5\text{hrs}) = 50 \text{ hrs}$

Time allowed = Total units produced/No. of units allotted per hour

$$= 600 \text{ units}/10 \text{ units}$$

$$= 60 \text{ hours}$$

∴ Time saved = Time allowed – Time taken

$$= 60 \text{ hrs} - 50 \text{ hrs}$$

$$= 10 \text{ hrs}$$

∴ Bonus = 40 % of the time saved

$$= 40\% \times \text{Time saved} \times \text{rate per hour}$$

$$= 40\% \times 10\text{hrs} \times 0.5 \text{ per hour}$$

$$= \text{Rs.}2$$

Total Earnings (wages) = $(H.W \times R.P.H) + 40\% (T.S \times R.P.H)$

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$$\begin{aligned}
 &= (50 \text{ hrs} \times 0.5) + 40\% (10 \text{ hrs} \times 0.5) \\
 &= 25 + 2 \\
 &= \text{Rs.27}
 \end{aligned}$$

$$\begin{aligned}
 \text{Effective rate of earnings per hour} &= \text{Total earnings/Hours worked} \\
 &= \text{Rs.27/50hrs} \\
 &= \text{Rs. 0.54 per hour}
 \end{aligned}$$

PROBLEM NO: 8

Calculation of extra output

| Particulars | No. of units |
|--------------------------------------|--------------|
| a) Actual Output (Given) | 800 |
| b) Standard Output (80units x 8 hrs) | 640 |
| Extra output | 160 |

∴ Bonus payable on 160 units

$$\text{Bonus payable} = 100 \text{ units} + 60 \text{ units}$$

$$= \text{Rs.15} + \frac{60 \text{ units}}{100 \text{ units}} \times 15$$

$$= \text{Rs.24/-}$$

$$\begin{aligned}
 \text{c) Total wages} &= \text{Rs.50 (Given)} + \text{Rs.24 (Bonus)} \\
 &= \text{Rs.74/-}
 \end{aligned}$$

$$\begin{aligned}
 \text{d) Total wages under piece rate basis} &= (\text{No. of pieces produced} \times \text{Rate per piece}) \\
 &= 800 \text{ units} \times \text{Rs. 0.078125} \\
 &= \text{Rs. 62.5}
 \end{aligned}$$

e) Calculation of time saved

$$1. \text{ Time allowed (standard) } (800 \text{ units} / 80 \text{ units}) = 10 \text{ hrs}$$

$$2. \text{ Time taken} = 8 \text{ hrs}$$

$$3. \text{ Time saved} = 2 \text{ hrs } (10 - 8)$$

$$\begin{aligned}
 \text{f) Total Earnings under Halsey premium system} &= (\text{H.W} \times \text{R.P.H}) + \left(\frac{1}{2}\right) (\text{T.S} \times \text{R.P.H}) \\
 &= (8 \text{ hrs} \times \text{Rs. 6.25}) + \left(\frac{1}{2}\right) (2 \times 6.25) \\
 &= \text{Rs.56.25}
 \end{aligned}$$

g) Total Earnings under Rowan premium system

$$= (\text{H.W} \times \text{R.P.H}) + \left(\frac{\text{T.S}}{\text{T.A}}\right) (\text{H.W} \times \text{R.P.H})$$

$$= (8 \text{ hrs} \times \text{Rs.6.25}) + \frac{2 \text{ hours}}{10 \text{ hours}} (8 \text{ hours} \times \text{Rs. 6.25})$$

$$= \text{Rs.60/-}$$

$$\text{Note: Piece rate per piece} = \frac{\text{Wage for a definite period}}{\text{Standard output for the same definite period}}$$

$$= \frac{\text{Rs.50 (8hrs)}}{640 \text{ units (8hrs)}}$$

$$= \text{Rs.0.078125}$$

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PROBLEM NO: 9**WORKING NOTE:**

Calculation of time saved/ bonus hours

$$\text{i. Time allowed (1250 units} \times 2 \text{ hrs)} = 2,500 \text{ hrs}$$

$$\text{ii. Time taken (8 hrs} \times 25 \text{ days} \times 10 \text{ workers)} = \underline{2,000 \text{ hrs}}$$

$$\text{Time saved/ bonus hours} = \underline{500 \text{ hrs}}$$

a. Calculation of effective rate of earnings per hour under Halsey scheme and rowan scheme

$$\begin{aligned} \text{Total Earnings under Halsey scheme} &= (\text{H.W} \times \text{R.P.H}) + \left(\frac{1}{2}\right) (\text{T.S} \times \text{R.P.H}) \\ &= (2000 \text{ hrs} \times \text{Rs. } 2) + \left(\frac{1}{2}\right) (500 \text{ hrs} \times \text{Rs. } 2) \\ &= \text{Rs. } 4,500 \end{aligned}$$

$$\begin{aligned} \text{Effective hourly rate of earnings (Halsey)} &= \text{Total earnings/ time taken} \\ &= \text{Rs. } 4,500 / 2000 \text{ hrs} \\ &= \text{Rs. } 2.25 \text{ per hour} \end{aligned}$$

$$\begin{aligned} \text{Total earnings under Rowan scheme} &= (\text{H.W} \times \text{R.P.H}) + (\text{T.S/T.A}) (\text{H.W} \times \text{R.P.H}) \\ &= (2000 \text{ hrs} \times \text{Rs. } 2) + (500 \text{ hrs} / 2500 \text{ hrs}) (2000 \text{ hrs} \times \text{Rs. } 2) \\ &= \text{Rs. } 4,000 + \text{Rs. } 800 \\ &= \text{Rs. } 4,800 \end{aligned}$$

$$\begin{aligned} \text{Effective hourly rate of earnings (Rowan)} &= \text{Total earnings/ time taken} \\ &= \text{Rs. } 4,800 / 2000 \text{ hrs} \\ &= \text{Rs. } 2.4 \text{ per hour} \end{aligned}$$

$$\begin{aligned} \text{b. Calculation of actual amount paid under previous scheme} &= \text{Time allowed} \times \text{R.P.H} \\ &= 2,500 \text{ hrs} \times \text{Rs. } 2 \\ &= \text{Rs. } 5,000 \end{aligned}$$

$$\begin{aligned} \text{Savings when Mr. A follows the Halsey scheme} &= \text{Rs. } 5,000 - \text{Rs. } 4,500 \\ &= \text{Rs. } 500/- \end{aligned}$$

$$\begin{aligned} \text{Savings when Mr. A follows the Rowan scheme} &= \text{Rs. } 5,000 - \text{Rs. } 4,800 \\ &= \text{Rs. } 200/- \end{aligned}$$

$$\text{Savings per unit under Halsey scheme} = \text{Rs. } 500 / 1250 \text{ units} = \text{Rs. } 0.4 \text{ per unit}$$

$$\text{Savings per unit under Rowan scheme} = \text{Rs. } 200 / 1250 \text{ units} = \text{Rs. } 0.16 \text{ per unit}$$

c. Calculation of % of bonus given under Rowan scheme and Halsey scheme

$$\begin{aligned} \text{\% of bonus given under Halsey scheme} &= (\text{Rs. } 500 / \text{Rs. } 4,000) \times 100 \\ &= 12.5\% \text{ of Basic wages.} \end{aligned}$$

$$\begin{aligned} \text{\% of bonus given under Rowan scheme} &= (\text{Rs. } 800 / \text{Rs. } 4,000) \times 100 \\ &= 20\% \text{ of Basic wages.} \end{aligned}$$

If Mr. A follows the Rowan scheme it satisfies the condition of 20% increase over the present earnings of the workers. So, it is advisable to Mr. A to follow the Rowan Scheme.

PROBLEM NO: 10

Actual output = 37 units

$$\begin{aligned} \text{Standard output} &= \frac{8 \text{ hrs.} \times 60 \text{ minutes}}{12 \text{ minutes per piece}} \\ &= 40 \text{ units} \end{aligned}$$

$$\text{Efficiency} = \frac{37 \text{ units}}{40 \text{ units}} \times 100 = 92.5\%$$

Under Taylor's differential piece rate system, a worker is paid lower piece rate of 83%, since his efficiency is less than 100%.

Standard production per hour = 60 minutes/12 minutes = 5 units

Normal Rate per hour = ₹20

Normal piece rate per unit = ₹20/5 units = ₹4

Lower piece rate per unit = ₹4 × 83/100 = ₹3.32

Total earnings = 37 units × ₹3.32 = ₹122.84

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PROBLEM NO: 11

Earnings of Workers under Straight Piece Rate System:

Worker A = 390 units × ₹ 0.09 = ₹ 35.10

Worker B = 450 units × ₹ 0.09 = ₹ 40.50

Worker C = 600 units × ₹ 0.09 = ₹ 54.00

Earnings of Workers under Merrick's Multiple Piece Rate System

| Particulars | A | B | C |
|--|-----------------------------|------------------------------|------------------------------|
| Efficiency level (Refer to working note ii) | 81.25% | 93.75% | 125% |
| Applicable wage rate per unit | 0.09 | 0.099 | 0.108* |
| Earnings (₹) | 35.10 (390 units × 0.09) | 44.55 (450 units × 0.099) | 64.80 (600 units × 0.108) |

Note : *Some author suggests an increase of 30% over normal piece rate at an efficiency level of 120% or more. In such a case the rate per unit would be Rs.0.142 and total earnings would come to Rs.70.20.

PROBLEM NO: 12

Calculation of earnings for workers under different incentive plan;

i. Halsey premium plan

| Particulars | Worker A | Worker B |
|-------------------------|---|---|
| a. Actual time taken | 40 hrs | 40 hrs |
| b. Standard time | $\left(\frac{176 \text{ pieces} \times 15 \text{ minutes}}{60 \text{ minutes}} \right)$ 44 hrs | $\left(\frac{140 \text{ pieces} \times 15 \text{ minutes}}{60 \text{ minutes}} \right)$ 35 hrs |
| c. Minimum wages | (40hrs x Rs.40) Rs. 1,600 | (40 hrs x Rs.40) Rs.1,600 |
| d. Bonus | {(44 hrs – 40 hrs) 50% x Rs.40} Rs. 80 | No Bonus |
| Earnings (Total) | Rs. 1,680 | Rs. 1,600 |

ii. Rowan's premium plan

| Particulars | Worker A | Worker B |
|-------------------------------------|--|------------------|
| a. Minimum wages (same as above) | Rs.1,600 | Rs.1,600 |
| b. Bonus | {(4 hrs/44 hrs) x 40 hrs x Rs.40} Rs. 145.45 | No Bonus |
| Earnings (Total) | Rs. 1,745.45 | Rs. 1,600 |

iii. Taylor's differential piece rate system

| | | |
|-------------------------|---|---|
| a. Efficiency | (176 pieces/ 160 pieces×100) 110% | (140pieces/160pieces×100) 87.5% |
| Earnings (Total) | (176 pieces x 10 x 120%) Rs.2,112 | (140 pieces x 10 x 80%) 1,120 |

| iv. Emerson's Efficiency plan | | |
|-------------------------------|------------------------------------|----------------------------|
| a. Time wages (40hrs x 40) | Rs.1,600 | Rs.1,600 |
| b. Bonus | [40 hrs x 40x (20+10)%] Rs. 480 | (Rs1,600 x 20%) Rs. 320 |
| Earnings (Total) | Rs. 2,080 | Rs. 1,920 |

PROBLEM NO: 13

Standard output = 240 units (given)

Actual output = 264 units (given)

Wage rate per hour = Rs.10 per hour

Under Emerson Plan:

% of Efficiency = (264 units/240 units) x 100 = 110%

% of total bonus = 10%+20% = 30%

Total earnings = 100%+30% = 130%

Total earnings = 10 hrs x Rs. 10 x 130% = Rs.130

Total Bonus = 10 hrs x Rs. 10 x 30% = Rs.30.

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PROBLEM NO: 14**Statement showing bonus and earnings under Emerson Efficiency System**

| Workers | A | B | C |
|--|----------|---------------------|--------------------------|
| Actual output in units | 25 | 40 | 45 |
| Standard output in units | 40 | 40 | 40 |
| Efficiency level (%) [$\frac{\text{Actual output}}{\text{Standard output}} \times 100$] | 62.5% | 100% | 112.50% |
| Rate of bonus on time wages | No bonus | 20% | 32.50% (20% + 12.5%) |
| Time wages (₹) | 50 | 50 | 50 |
| Bonus (₹) | Nil | 10 (20% of ₹ 50) | 16.25 (32.5% of ₹ 50) |
| Total earnings (₹) | 50 | 60 | 66.25 |

PROBLEM NO: 15

Given Rate per hour = Rs. 0.4 per unit,

Piece rate = Rs. 0.3 per unit,

Standard production per hour = 2 units

Time taken = 40 hours

Standard production for 40 hours = 80 units (40 X 2)

Actual production for 40 hours (X) = 50 units

(Y) = 80 units

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| Particulars | Taylor Differential Piece Rate | | Merrick Differential Piece Rate | | Gantt's Task | |
|-----------------------|--------------------------------|---------------------------|---------------------------------|----------------------------|--------------------------|----------------------------|
| | X | Y | X | Y | X | Y |
| 1. Earnings (W.N – 1) | 12.45 (0.3×83%×50) | 30 (0.3×125%×80) | 15 (0.3×50) | 26.4 (0.3×110%×80) | 16 (40×0.4) | 19.2 [16+(16×20%)] |
| 2. Cost per piece | 0.25 ($\frac{12.45}{50}$) | 0.375 ($\frac{30}{80}$) | 0.3 ($\frac{15}{50}$) | 0.33 ($\frac{26.4}{80}$) | 0.32 ($\frac{16}{50}$) | 0.24 ($\frac{19.2}{80}$) |

$$\% \text{ of Efficiency} = \frac{\text{Actual production}}{\text{Standard production}} \times 100$$

$$X = \frac{50}{80} \times 100 = 62.5\%; Y = \frac{80}{80} \times 100 = 100\%$$

PROBLEM NO: 16

Let 'y' be the wage rate per hour

Let 'x' be the cost of materials

Earnings

$$\begin{aligned} \text{Under Halsey} &= (H.W \times R.P.H) + (\frac{1}{2})(T.S \times R.P.H) \\ &= (80\text{hrs} \times y) + \frac{1}{2}(20\text{hrs} \times y) \\ &= 90y \end{aligned}$$

$$\begin{aligned} \text{Under Rowan} &= (H.W \times R.P.H) + (T.S/T.A)(H.W \times R.P.H) \\ &= (60\text{hrs} \times y) + (40/100)60\text{hrs} \times y \\ &= 84y \end{aligned}$$

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Statement showing factory cost of the worker Vishnu and Shiva

| Particulars | Vishnu | Shiva |
|----------------------|-------------------------|------------------------|
| a. Cost of materials | x | x |
| b. Normal wages | 84y | 90y |
| c. factory overheads | 600 (60 hours x Rs. 10) | 800 (80 hours x Rs.10) |
| d. factory cost | x+84y+600 | x+90y+800 |

From solved equation

$$X + 84y + 600 = 7280 \quad - \quad 1$$

$$X + 90y + 800 = 7600 \quad - \quad 2$$

$$(-) \quad (-) \quad (-) \quad (-) \quad \underline{\hspace{2cm}}$$

$$-6y - 200 = -320$$

$$-6y = -320 + 200$$

$$-6y = -120$$

$$y = \text{Rs.}20$$

Substitute y = 20 in - 1

$$x + 84y + 600 = 7280$$

$$x + 84(20) + 600 = 7280$$

$$x = 7280 - 2280$$

$$x = \text{Rs.}5000$$

Cost of Materials = Rs.5000]

Wage rate per hour = Rs.20

PROBLEM NO: 17

Given, Replacements = (No. of replacements/Avg no. of workers) = 5% → 1

Separations = (No. of separations/Avg no. of workers) = 3% → 2

Flux = (No. of replacements + No. of separations) / Avg no. of workers = 10% → 3

From (1) Average no of workers = No of replacements / 5%

= 30 employees/5%

= 600 employees

From (2) No. of separations = 3% x Average no. of workers

= 3% x 600 employees

No of workers left & discharged = 18 workers

From (3) (No. of separations + No. of accessions) / Avg no. of workers = 10%

18 + No. of accessions = 10% x 600

No of accessions = 60 - 18

No of accessions = 42 workers

No of workers joined & recruited = 42 workers

PROBLEM NO: 18

Standard output = (10,000 tonnes x 20 days) / 25 days = 8,000 tonnes

Actual output = 11,000 tonnes

Excess output = (11,000 tonnes - 8,000 tonnes) = 3,000 tonnes

% of excess output = 3,000 tonnes/8,000 tonnes = 37.5%

Group bonus = 3,000 x 10 = Rs.30,000/-

Statement showing bonus payable to each group (In Rs.)

| Particulars | Direct labour (Rs.) | Inspection staff (Rs.) | Maintenance staff (Rs.) | Supervisor (Rs.) |
|--|------------------------|---------------------------|----------------------------|---------------------|
| a. Group Bonus 30,000 × (70%: 10%: 12%: 8%) | 21,000 | 3,000 | 3,600 | 2,400 |
| b. Bonus to direct labour (3,000 tonne x (17.5/37.5) x Rs.5 | 7,000 | - | - | - |
| c. Penalty to IS staff (11,000 × 1% - 200 tonnes) × Rs. 20 | - | (1,800) | - | - |
| d. Penalty to maintenance (40 hours x Rs.20) | - | - | (800) | - |
| Net bonus paid | 28,000 | 1,200 | 2,800 | 2,400 |

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THE END