

## 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	<b>21,720/-</b>

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

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

### **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
<b>Total</b>	<b>172.125</b>	<b>275.4</b>

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	-
<b>Total</b>	<b>206.55</b>	<b>121.7175</b>	<b>134.2575</b>

### **PROBLEM NO:3**

Statement Showing Computation of Effective Hourly Rate/Cost:

Particulars	Amount (Rs.)
Salary (250 x 12)	3,000
Dearness Allowance (on 1 <sup>st</sup> 100 = 400) (on 2 <sup>nd</sup> 100 = 100) (on 3 <sup>rd</sup> 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
<b>TOTAL COST</b>	<b>(A)</b>	<b>15,001</b>
	<b>Particulars</b>	<b>Hours</b>
No. of Hours Worked	2400	
(-) Normal Idle Time	<u>400</u>	
<b>NET PRODUCTIVE HOURS</b>	<b>(B)</b>	<b>2000</b>
<b>EFFECTIVE HOURLY RATE (A/B)</b>		<b>7.5005/hr</b>

#### 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

$$A = 40 \text{ hours} \times \text{Rs. 75 per hour} = \text{Rs.} 3,000/-$$

$$B = 60 \text{ hours} \times \text{Rs. 80 per hour} = \text{Rs.} 4,800/-$$

$$C = 44 \text{ hours} \times \text{Rs. 50 per hour} = \text{Rs.} 2,200/-$$

$$\underline{\text{Rs.} 10,000/-}$$

$$\therefore \text{Bonus amount} = \text{Actual payment} - \text{Time wages}$$

$$= 15,000 - 10,000 = \text{Rs.} 5,000/-$$

$$\% \text{ of bonus} = (5,000/10,000) \times 100 = 50\% \text{ on time wages}$$

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##### 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

$$\text{Rate per hour (R.P.H)} = \text{Rs.} 6$$

$$\text{Time allowed ( T.A)} = 8 \text{ Hours}$$

$$\text{Time Taken (H.W)} = 6 \text{ Hours}$$

$$\text{Time Saved (T.S)} = 2 \text{ Hours}$$

$$\text{Earnings of a worker under Halsey system} = (\text{H.W} \times \text{R.P.H}) + (\frac{1}{2}) (\text{T.S} \times \text{R.P.H})$$

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

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

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

**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) =  $2000 \text{ units}/40 \text{ units per hour}$

$$= 50\text{hrs}$$

$$\begin{aligned}
 \therefore \text{Time saved} &= \text{Time allowed} - \text{Time Taken} \\
 &= 50 \text{ hrs} - 40 \text{ hrs} \\
 &= 10 \text{ hrs.}
 \end{aligned}$$

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

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

$$\begin{aligned}
 &= (40 \text{ hours} \times \text{Rs.25}) + (\frac{1}{2})(10 \text{ hours} \times \text{Rs. 25}) \\
 &= \text{Rs. 1,000} + \text{Rs. 125} \\
 &= \text{Rs.1,125}
 \end{aligned}$$

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

$$\begin{aligned}
 &= (40 \text{ hours} \times \text{Rs. 25}) + \frac{10 \text{ hours}}{50 \text{ hours}} \times 40 \text{ hours} \times \text{Rs. 25} \\
 &= \text{Rs. 1,000} + \text{Rs. 200} = \text{Rs.1200}
 \end{aligned}$$

## **PROBLEM NO:7**

From the given data

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

$$\begin{aligned}
 \text{Time allowed} &= \text{Total units produced}/\text{No. of units allotted per hour} \\
 &= 600 \text{ units}/10 \text{ units} \\
 &= 60 \text{ hours}
 \end{aligned}$$

$$\begin{aligned}
 \therefore \text{Time saved} &= \text{Time allowed} - \text{Time taken} \\
 &= 60 \text{ hrs} - 50 \text{ hrs} \\
 &= 10 \text{ hrs}
 \end{aligned}$$

$$\begin{aligned}
 \therefore \text{Bonus} &= 40 \% \text{ of the time saved} \\
 &= 40\% \times \text{Time saved} \times \text{rate per hour} \\
 &= 40\% \times 10\text{hrs} \times 0.5 \text{ per hour} \\
 &= \text{Rs.2}
 \end{aligned}$$

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

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

Effective rate of earnings per hour = Total earnings/Hours worked

$$\begin{aligned}
 &= \text{Rs.} 27/50 \text{ hrs} \\
 &= \text{Rs.} 0.54 \text{ per hour}
 \end{aligned}$$

### **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

$$\begin{aligned}
 \text{Bonus payable} &= 100 \text{ units} + 60 \text{ units} \\
 &= \text{Rs.} 15 + \frac{60 \text{ units}}{100 \text{ units}} \times 15 \\
 &= \text{Rs.} 24/-
 \end{aligned}$$

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

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

#### e) Calculation of time saved

1. Time allowed (standard) (800 units/ 80 units) = 10 hrs
2. Time taken = 8 hrs
3. Time saved = 2 hrs ( $1 - 2$ )

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

#### g) Total Earnings under Rowan premium system

$$\begin{aligned}
 &= (H.W \times R.P.H) + (T.S/T.A) (H.W \times R.P.H) \\
 &= (8 \text{ hrs} \times \text{Rs.} 6.25) + \frac{2 \text{ hours}}{10 \text{ hours}} (8 \text{ hours} \times \text{Rs.} 6.25) \\
 &= \text{Rs.} 60/-
 \end{aligned}$$

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

$$\begin{aligned}
 &= \frac{\text{Rs.} 50(8 \text{ hrs})}{640 \text{ units}(8 \text{ hrs})} \\
 &= \text{Rs.} 0.078125
 \end{aligned}$$

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**PROBLEM NO: 9****WORKING NOTE:**

Calculation of time saved/ bonus hours

- i. Time allowed (1250 units x 2 hrs) = 2,500 hrs
- ii. Time taken (8 hrs x 25 days x 10 workers) = 2,000 hrs
- Time saved/ bonus hours = 500 hrs

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

- Total Earnings under Halsey scheme =  $(H.W \times R.P.H) + (\frac{1}{2})(T.S \times R.P.H)$   
 $= (2000 \text{ hrs} \times \text{Rs. 2}) + (\frac{1}{2})(500 \text{ hrs} \times \text{Rs. 2})$   
 $= \text{Rs.4,500}$
- Effective hourly rate of earnings (Halsey) = Total earnings/ time taken  
 $= \text{Rs.4,500}/2000 \text{ hrs}$   
 $= \text{Rs.2.25 per hour}$
- Total earnings under Rowan scheme =  $(H.W \times R.P.H) + (T.S/T.A)(H.W \times R.P.H)$   
 $= (2000 \text{ hrs} \times \text{Rs. 2}) + (500 \text{ hrs}/2500 \text{ hrs})(2000 \text{ hrs} \times \text{Rs. 2})$   
 $= \text{Rs.4,000} + \text{Rs.800}$   
 $= \text{Rs. 4,800}$
- Effective hourly rate of earnings (Rowan) = Total earnings/ time taken  
 $= \text{Rs.4,800}/2000 \text{ hrs}$   
 $= \text{Rs. 2.4 per hour}$

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

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

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

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

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

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

- % of bonus given under Halsey scheme =  $(\text{Rs.500}/\text{Rs.4,000}) \times 100$   
 $= 12.5\% \text{ of Basic wages.}$
- % of bonus given under Rowan scheme =  $(\text{Rs.800}/\text{Rs.4,000}) \times 100$   
 $= 20\% \text{ of Basic wages.}$

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

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

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

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.0.117 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	$\left( \frac{176 \text{ pieces} \times 15 \text{ minutes}}{60 \text{ minutes}} \right) 44 \text{ hrs}$	$\left( \frac{140 \text{ pieces} \times 15 \text{ minutes}}{60 \text{ minutes}} \right) 35 \text{ hrs}$
c. Minimum wages	(40hrs x Rs.40) Rs. 1,600	(40 hrs x Rs.40) Rs.1,600
d. Bonus	$\{(44 \text{ hrs} - 40 \text{ hrs}) 50\% \times \text{Rs.40}\}$ Rs. <u>80</u>	No Bonus
<b>Earnings (Total)</b>	<b>Rs. 1,680</b>	<b>Rs. 1,600</b>

ii. Rowan's premium plan

Particulars	Worker A	Worker B
a. Minimum wages (same as above)	Rs.1,600	Rs.1,600
b. Bonus	$\{(4 \text{ hrs}/44 \text{ hrs}) \times 40 \text{ hrs} \times \text{Rs.40}\}$ Rs. <u>145.45</u>	No Bonus
<b>Earnings (Total)</b>	<b>Rs. 1,745.45</b>	<b>Rs. 1,600</b>

iii. Taylor's differential piece rate system

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

**iv. Emerson's Efficiency plan**

a. Time wages (40hrs x 40)	Rs. 1,600	Rs. 1,600
b. Bonus	[40 hrs x 40 x (20+10)%] Rs. 480	(Rs 1,600 x 20%) Rs. 320
<b>Earnings (Total)</b>	<b>Rs. 2,080</b>	<b>Rs. 1,920</b>

**PROBLEM NO:13**

Standard output = 240 units (given)

Actual output = 264 units (given)

Wage rate per hour = Rs.10 per hour

**Under Emerson Plan:**

$$\% \text{ of Efficiency} = (264 \text{ units}/240 \text{ units}) \times 100 = 110\%$$

$$\% \text{ of total bonus} = 10\% + 20\% = 30\%$$

$$\text{Total earnings} = 100\% + 30\% = 130\%$$

$$\text{Total earnings} = 10 \text{ hrs} \times \text{Rs. 10} \times 130\% = \text{Rs.} 130$$

$$\text{Total Bonus} = 10 \text{ hrs} \times \text{Rs. 10} \times 30\% = \text{Rs.} 30.$$

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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 (%)	62.5%	100%	112.50%
$\left[ \frac{\text{Actual output}}{\text{Standard output}} \times 100 \right]$			
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

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

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

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 × Rs. 10)	800 (80 hours × Rs. 10)
d. factory cost	x+84y+600	x+90y+800

From solved equation

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

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

$$\begin{array}{rcl} (-) & (-) & (-) \\ -6y - 200 & = -320 \\ -6y & = -320 + 200 \\ -6y & = -120 \\ y & = \text{Rs.}20 \end{array}$$

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 x (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 x 1% - 200 tonnes) x 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**