## **MASTER MINDS**

# **7. HIRE PURCHASE SYSTEM**

# **PROBLEM NO: 1**

(i)

#### Journal Entries in Books of H.P & Co

Date	Particulars		Dr. Rs.	Cr. Rs.
2010		_		
Jan 1	Pick –up van A/c	Dr.	10,000	
	To FM & Co A/c			10,000
	(Being purchase of a pickup van on hire pur FM & Co)			
Jan 1	FM & Co A/c	Dr.	40,000	
	To Bank A/c			40,000
	(Being down payment made on signing the contract)	HP		
Dec 31	Interest A/c	Dr.	3,600	
	To FM & Co A/c			3,600
	(Being interest payable @ 6% on 60,000)			
Dec 31	FM & Co A/c (20000+3600)	Dr.	23,600	
	To Bank A/c			23,600
	(Being 1 <sup>st</sup> Installment paid along with interes			
Dec 31	Depreciation A/c	Dr.	10,000	
	To pickup van A/c	<u> </u>		10,000
	(Being depreciation charged @ 10% p.a on			
Dec 31	Profit & Loss A/c	Dr.	1,36,000	
	To Interest A/c			3,600
	To Depreciation A/c	<b>N</b> .		10,000
	(Being depreciation & interest transferred to Loss A/c)	Profit &		
2011		_		
Dec 31	Interest A/c	Dr.	2400	0.400
	To FM & Co A/c			2400
<b>D</b> 01	(Being interest payable @ 6% on 40,000)			
Dec 31	FM & Co A/c	Dr.	22,400	00.400
	To Bank A/c			22,400
<b>D</b> 04	(Being 2 <sup>nd</sup> Installment paid along with intere		10.000	
Dec 31	Depreciation A/c	Dr.	10,000	40.000
	To pickup van A/c			10,000
Dec 24	(Being depreciation charged @ 10% p.a)		10.000	
Dec 31	Profit & Loss A/c	Dr.	10,000	10.000
	To Depreciation A/c			10,000
Dec 21	(Being depreciation transferred to Profit & Lo	· · · · · ·	2 400	
Dec 31	Profit & Loss A/c To interest A/c	Dr.	2,400	2,400
				2,400
2012	(Being interest paid transferred to P&L A/c)			
Dec 31	Interest A/c	Dr.	1,200	
Dec 51	To FM & Co A/c		1,200	1,200
	(Being interest payable @ 6% on 20,000)			1,200
Dec 31	FM & Co A/c	Dr.	21,200	
00001	To Bank A/c		21,200	21,200
	(Being last installment paid along with intere	(et)		21,200
1 1		/	10.000	
Dec 31	Depreciation A/c		10 000 1	
Dec 31	Depreciation A/c To Pick up van A/c	Dr.	10,000	10,000

## Ph: 9885125025/26

# www.mastermindsindia.com

Dec 31	Profit & Loss A/c	Dr.	11,200	
	To Depreciation A/c			10,000
	To Interest A/c			1200
	(Being depreciation & interest transferred to Loss A/c)	Profit &		

(ii)

### Ledger in Books of H.P & Co

#### Pick up van A/c

Date	Particulars	Amount Rs.	Date	Particulars	Amount Rs.
01.01.10	To FM & Co A/c	1,00,000	31.12.10	By depreciation A/c	10,000
			31.12.10	By balance c/d	90,000
		1,00,000			1,00,000
01.01.11	To balance b/d	90,000	31.12.11	By depreciation A/c	10,000
				By balance c/d	80,000
		90,000			90,000
01.01.12	To balance b/d	80,000	31.12.12	By depreciation	10,000
				By balance c/d	70,000
		80,000			80,000

#### F.M & Co A/c

Date	Particulars	Amount Rs.	Date	Particulars	Amount Rs.
01.01.10	To Bank A/c	40,000	1.1.10	By Pickup van A/c	1,00,000
31.12.10	To Bank A/c	23,600	31.12.10	By Interest A/c	3600
	To Balance c/d	<u>40000</u>			
		<u>1,03,600</u>			<u>1,03,600</u>
31.12.11	To Bank A/c	22,400	1.1.11	By Balance b/d	40,000
	To Balance c/d	<u>20,000</u>	31.12.11	By Interest A/c	<u>2400</u>
		42,400			42,400
31.12.12	To Bank A/c	21,200	1.1.12	By Balance b/d	20,000
			31.12.12	By Interest A/c	<u>1200</u>
		21,200			<u>21,200</u>

### **Depreciation A/c**

Date	Particulars	Amount Rs.	Date	Particulars	Amount Rs.
31.12.10	To Pick up van A/c	10000	31.12.10	By Profit & Loss A/c	10,000
		<u>10000</u>			<u>10000</u>
31.12.11	To Pick up van A/c	<u>10000</u>	31.12.11	By Profit & Loss A/c	<u>10000</u>
		<u>10000</u>			<u>10000</u>
31.12.12	To Pick up van A/c	<u>10000</u>	31.12.12	By Profit & Loss A/c	<u>10000</u>
		<u>10000</u>			<u>10000</u>

#### Interest A/c

Date	Particulars	Amount Rs.	Date	Particulars	Amount Rs.
31.12.10	To FM & Co A/c	<u>3600</u>	31.12.10	By Profit & Loss A/c	<u>3600</u>
		<u>3600</u>			<u>3600</u>
31.12.11	To FM & Co A/c	<u>2400</u>	31.12.11	By Profit & Loss A/c	<u>2400</u>
		<u>2400</u>			<u>2400</u>
31.12.12	To FM & Co A/c	<u>1200</u>	31.12.12	By Profit & Loss A/c	<u>1200</u>
		<u>1200</u>			<u>1200</u>

**MASTER MINDS** 

### Balance Sheet of HP & Co as on 31<sup>st</sup> Dec 2010

Liabilities	Amount Rs.	Assets	Amount Rs.			
FM & Co A/c	40000	Pick up van	90000			
Balance Sheet of HP & Co as on 31 <sup>st</sup> Dec 2011						
Liabilities	Amount	Assets	Amount			

Liabilities	Amount Rs.	Assets	Amount Rs.
FM & Co A/c	20000	Pick up van	80000

# Balance Sheet of HP & Co as on 31<sup>st</sup> Dec 2012

Liabilities	Amount Rs.	Assets	Amount Rs.
FM & Co A/c	-	Pick up van	70000

(iii)

#### Hire Purchase interest suspense A/c

Date	Particulars	Amount Rs.	Date	Particulars	Amount Rs.
01.01.10	To FM & Co A/c	7,200	31.12.10	By Interest A/c	3,600
				By balance c/d	<u>3,600</u>
		<u>7,200</u>			<u>7,200</u>
01.01.11	To balance b/d	3600	31.12.11	By Interest	2400
				By balance c/d	<u>1200</u>
		<u>3600</u>			<u>3600</u>
01.01.12	To balance b/d	<u>1200</u>	31.12.12	By Interest	<u>1200</u>
		<u>1200</u>	O R.		<u>1200</u>

# Interest A/c

Date	Particulars	Amount Rs.	Date	Particulars	Amount Rs.
31.12.10	To HP interest		31.12.10	By Profit & Loss A/c	<u>3,600</u>
	suspense A/c	<u>3600</u>			
		3600			3,600
31.12.11	To HP interest	2400	31.12.11	By Profit & Loss A/c	2400
	suspense A/c	2400			2400
		<u>2400</u>			<u>2400</u>
31.12.12	To HP interest	<u>1200</u>	31.12.12	By Profit & Loss A/c	<u>1200</u>
	suspence A/c				
		<u>1200</u>			<u>1200</u>

#### FM & Co A/c

Date	Particulars	Amount Rs.	Date	Particulars	Amount Rs.
01.01.10	To Bank	40000	01.01.10	By Pick up van A/c	100000
31.12.10	To Bank	23600		By HP interest suspense	7200
				A/c	
31.12.10	To Balance c/d	<u>43600</u>			
		<u>107200</u>			<u>107200</u>
31.12.11	To Bank A/c	22400	1.1.11	By Balance b/d	<u>43600</u>
31.12.11	To Balance c/d	<u>21200</u>			
		<u>43600</u>			<u>43600</u>
31.01.12	To Bank A/c	<u>21200</u>	1.1.12	By Balance b/d	<u>21200</u>
		<u>21200</u>			<u>21200</u>

### Ph: 9885125025/26

### Balance Sheet of HP & Co as on 31<sup>st</sup> Dec 2010

Liabilities	Amount Rs.	Assets	Amount Rs.
FM & Co A/c	43600	Pick up van	100000
(-) Interest suspense 3600	40000	(-) Depreciation 10000	90000

### Balance Sheet of HP & Co as on 31<sup>st</sup> Dec 2011

Liabilities	Amount Rs.	Assets	Amount Rs.
FM & Co A/c	21200	Pick up van	90000
(-) Interest suspense 1200	200000	(-) Depreciation 10000	80000

### Balance Sheet of HP & Co as on 31<sup>st</sup> Dec 2012

Liabilities	Amount Rs.	Assets	Amount Rs.
FM & Co A/c	-	Pick up van	80000
		(-) Depreciation 10000	70000

# PROBLEM NO: 2

#### Statement showing computation of cash value of machine acquired

Particulars	Installment amount	Interest	Principal
5 <sup>th</sup> installment	6,000		
Interest (6000 x 5 / 105)	<u>(286)</u> 5,714	286	5714
Add 4 <sup>th</sup> installment	<u>6000</u>		
	11,714		
(-) Interest (11714 x 5 / 105)	<u>(558)</u> 11,156	558	5442
Add 3 <sup>rd</sup> installment	<u>6000</u>		
	17,156		
(-) Interest (11156 x 5 / 105)	<u>(817)</u>	817	5183
	16,339		
Add 2 <sup>nd</sup> installment	<u>6000</u>		
	22,339		
(-) Interest (22339 x 5 / 105)	<u>(1064)</u>	1064	4936
	21,275		
Add 1 <sup>st</sup> installment	<u>6000</u>		
	27,275		
(-) Interest (27275x5/105)	<u>(1299)</u>	<u>1299</u>	4701
	25,976	4024	25976

# **PROBLEM NO: 3**

#### Computation of cash price of Machinery and interest

Particulars	Installment	Interest	Principal
Third installment	55000		
	(5000)		
Interest (55000 x 10 /110)	5000	5000	5000
	<u>4900</u>		
Add : 2 <sup>nd</sup> installment	99000		
	<u>9000</u>		
Interest = 99000x10/110	90000	9000	40000

IPCC\_37e\_Accounts\_ Hire Purchase\_Assignment Solutions\_\_\_\_\_

# **MASTER MINDS**

Add: 1 <sup>st</sup> installment	<u>53000</u> 143000		
Interest 143000x10/10	<u>(13000)</u>	13000	40000
Add: down payment			70000
		27000	2,00,000

Interest paid= 5000 + 9000 + 13000 = 27000

Told cash price = 2,00,000.

# PROBLEM NO: 4

Hire Purchase Price = Down Payment + Installments

= 1,58,500 + 2,21,900 + 2,06,050 + 1,90,200 + 1,74,350

= 9,51,000

Difference between any two successive installments represents the least amount of interest charged in the last year i.e. 2,21,900 - 2,06,050 = 15,850

Thus, Interest for the  $3^{rd}$  year = 15,850 x 2 = 31,700

Interest for the  $2^{nd}$  year = 15,850 x 3 = 47,550

Interest for the  $1^{st}$  year = 15,850 x 4 = 63,400

Thus allocation of installment between cash price and interest is as follows:

Year	Installment	Interest	Cash Price
1	2,21,900	63,400	1,58,500
2	2,06,050	47,550	1,58,500
3	1,90,200	31,700	1,58,500
4	1,74,350	15,850	1,58,500

Total Cash Price = 6,34,000 + 1,58,500 = 7,92,500.

### PROBLEM NO: 5 In books of hire purchaser Machinery a/c

Date	Particulars	Amount Rs.	Date	Particulars	Amount Rs.
Year1	To hire render	15533	Year1	By depreciation	1553
				By balance c/d	13980
		<u>15538</u>			<u>15538</u>
Year 2	To balance b/d	13980	Year 2	By depreciation	1398
				By balance c/d	12582
		13980			13980
Year3	To balance b/d	12582	Year 3	By depreciation	1258
				By hire render	11000
				By profit & loss a/c	324
		12582			12582

#### Hire Vendor a/c

Date	Particulars	Amount Rs.	Date	Particulars	Amount Rs.
Year1	To bank a/c	6000	Year1	By Machinery a/c	15533
	To balance c/d	12639		By interest a/c	3106
		18639			18639
Year 2	To bank a/c	6000	Year2	By balance b/d	12639
	To balance c/d	9167		By interest a/c	2528
		15167			15167
Year 3	To Machinery	11000	Year 3	By balance b/d	9167
				By interest a/c	1833
		11000			11000

#### Ph: 9885125025/26

www.mastermindsindia.com

#### WORKING NOTE:

#### Computation of cash value of machinery

Particulars	Installment	Interest	Principal
4 <sup>th</sup> installment	6000		-
Interest = 6000 x 20/120	<u>(1000)</u>	1000	5000
	5000		
add: 3 <sup>rd</sup> installment	<u>6000</u>		
	11000		
Interest = 11000x20/120	<u>(1833)</u>	1833	4167
	9167		
Add : 2 <sup>nd</sup> installment	<u>6000</u>		
	15167		
Interest (15167 x 20/120	<u>2528</u>	2528	3427
Add:1 <sup>st</sup> installment	12639		
	<u>6000</u>		
	18639	3106	2894
	<u>3106</u>		
	<u>15533</u>	<u>8467</u>	<u>15533</u>

# **PROBLEM NO: 6**

#### In books of transport Ltd

### <u>Tempo a/c</u>

Date 2010	Particulars	Rs.	Date	Particulars	Rs.
Jan 1	To Delhi Motors	150000	Dec 21	By depreciation (150000 x 20%)	30000
				By balance e/d	120000
		150000			150000
2011 Jan1	To balance b/d	120000	2011 Dec 31	By depreciation	24000
				By Delhi Motors A/c	49000
				(value 2 tempo's taken away)	
				By profit & loss A/c (B/F)	15000
				By balance c/d (value of one tempo left)	32000
		120000			120000
2012 Jan1	To balance b/d	32000	2012 Dec 31	By depreciation	6400
				By balance c/d	25600
		32000			32000

#### <u>Delhi motors A /c</u>

Date 2010	Particulars	Rs	Date	Particulars	Rs
Jan 1	To bank (downpay)	30000	2010 Jan1	By tempo's a/c	150000
31 Dec	To bank	50800	Dec 31	By interest (120000 x 9%)	10800
31. Dec	To balance c/d	80000			
		160800			160800
2011 Jan 1	To tempos a/c	49000	2011	By balance b/d	80000

IPCC\_37e\_Accounts\_ Hire Purchase\_Assignment Solutions\_\_\_\_\_

# **MASTER MINDS**

			Jan1		
Dec 31	To balance c/d	38200	Dec 31	By interest (80000x9%)	7200
		87200			87200
2012 Dec 31	To bank d/c	41638	2012 Jan1	By balance b/d	38200
			Dec 31	By interest a/c (38200x9%)	3438
			41638		41638

#### WORKING NOTES:

(10000 + 8000)

18000

Particulars	Amount
WORKING NOTE 1:	
Value of one tempo left with buyer	
cost	50000
Depreciation for 2 years @ 20% w (10000 + 8000)	(18000)
Value of tempo at end of 2 <sup>nd</sup> year	32000
WORKING NOTE 2:	
Value of 2 tempos taken by hire vendor	
Cost (50000 x 2)	100000
Depreciation @ 30% w.d.v method for 2yrs (30000 + 21000)	(51000)
Value of tempos taken away	49000
WORKING NOTE 3:	
Computation of profit (or) loss on Repossession	
Value of tempos taken over	49000
Book value of 2 tempos (32000 x 2)	(64000)
Loss to X Transport Ltd on taken over of 2 tempos	(15000)

# THE END