SMART CARDS

PRESENTED BY

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DIRECTING STAFF

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AIM

TO APPRISE THE GATHERING ON ESSENTIAL REQUISITES FOR ESTABLISHING A SMART CARD LAB IN MCEME

PART 1

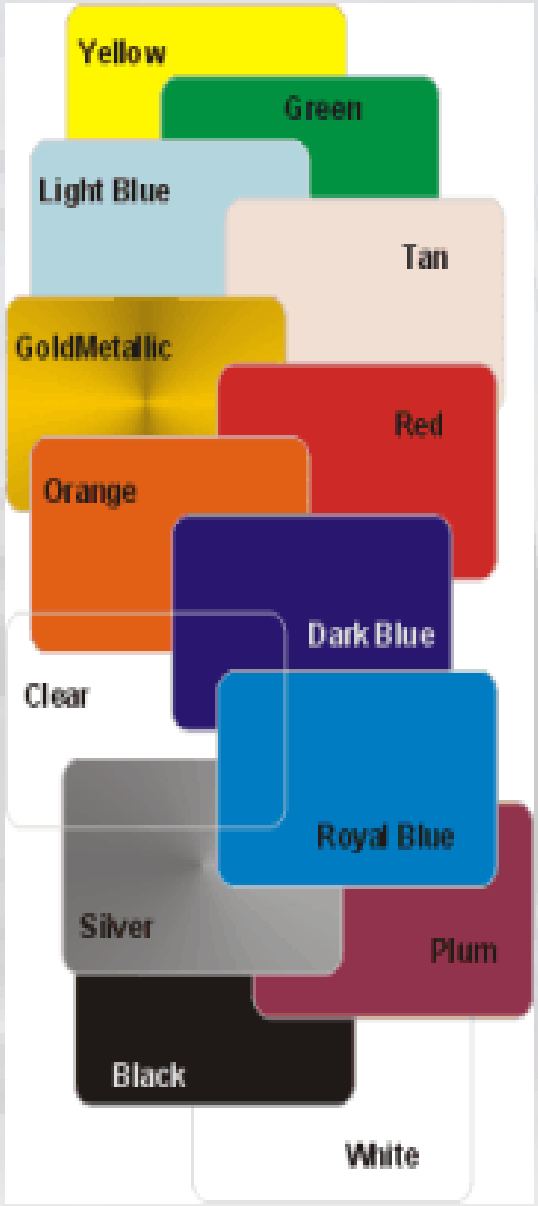
- WHY SMART CARDS ?
- TYPES AND RANGE OF SMART CARDS.
- COMPARISION BETWEEN SMART CARDS.

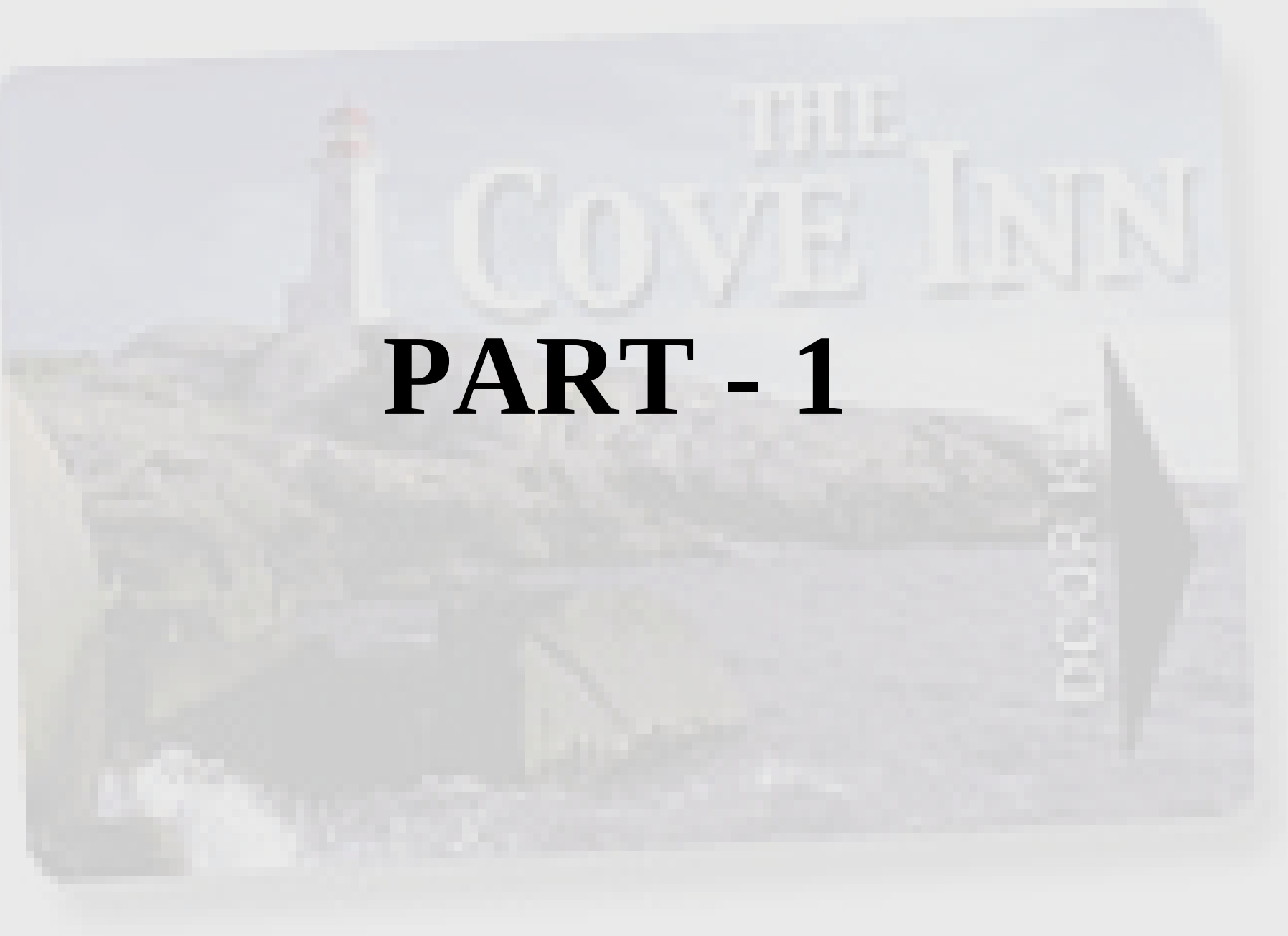
PART 2

- GENISIS TO EST SMART CARD LAB IN MCEME.
- HARDWARE REQUIREMENTS.
- SUGGESTED APPLICATIONS OF SMART CARDS IN MCEME.

PART 3

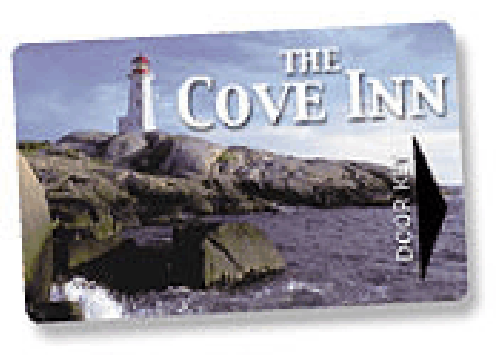
- MARKET SURVEY.
- COST ANALYSIS.
- PROBLEMS FACED.
- CONCLUSION.





PART - 1

WHY SMART CARDS ?



- E-COMMERCE.
- HEALTH CARE.
- ACCESS CONTROL.
- IMPROVE CONVINIENCE AND SECURITY.
- TAMPER PROOF STORAGE.
- PROTECTIONS AGAINST SECURITY THREATS
- STORAGE OF VALUE AND DATA.
- DIAL UP ACCESS.
- WORK STATION LOGON.

TYPES AND RANGE OF SMART CARDS

TYPES

- CONTACT SMART CARD.
- CONTACTLESS SMART CARD.
- HYBRID CARDS.
- COMBI CARDS.

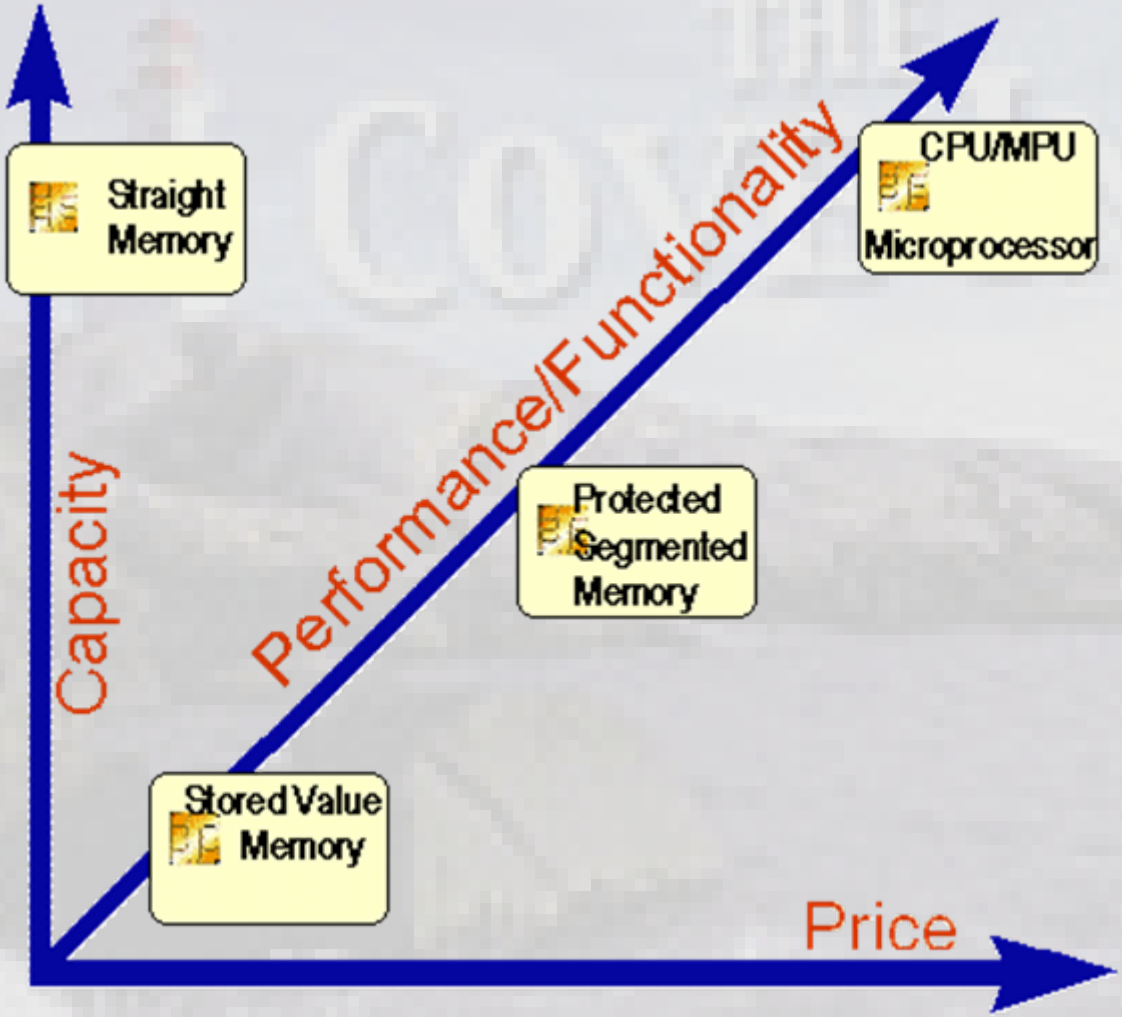
RANGE

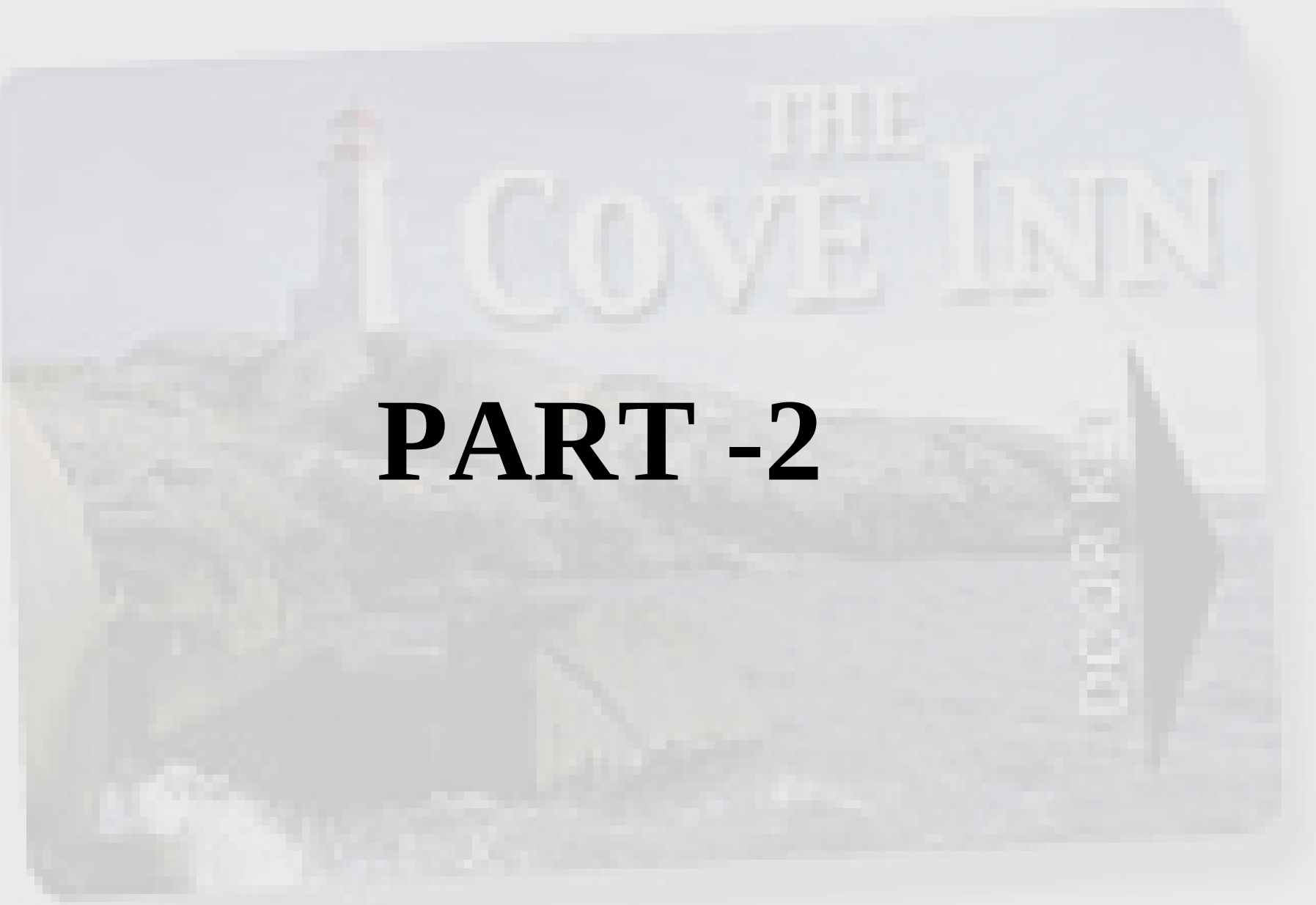
- STRAIGHT MEMORY CARDS.
- PROTECTED/SEGMENTED MEMORY CARDS.
- STORED VALUE MEMORY CARDS.

COMPARISON BETWEEN SMART CARDS

FEATURES	PLASTIC MAGNETIC SWIPE CARDS	CONTACT SMART CARD	CONTACT LESS SMART CARDS
• SPEED	FAIR	GOOD	GOOD
• INTERMODALITY	FAIR	GOOD	GOOD
• FLEXIBILITY	FAIR	GOOD	GOOD
• MEMORY	LOW	HIGH	HIGH
• LIFE CYCLE	LESS	MORE	MORE
• SECURITY	-	HIGH	HIGH
• WEAR &TEAR	MORE	MORE	NIL

Card FunctionTrade-Offs





PART -2

GENISIS TO ESTABLISH SMART CARD LAB IN MCEME

- TECHNOLOGY DISPLAY.
- RESOURCE CRUNCH.
- CENTRAL TRANSACTION.

HARDWARE REQUIREMENTS

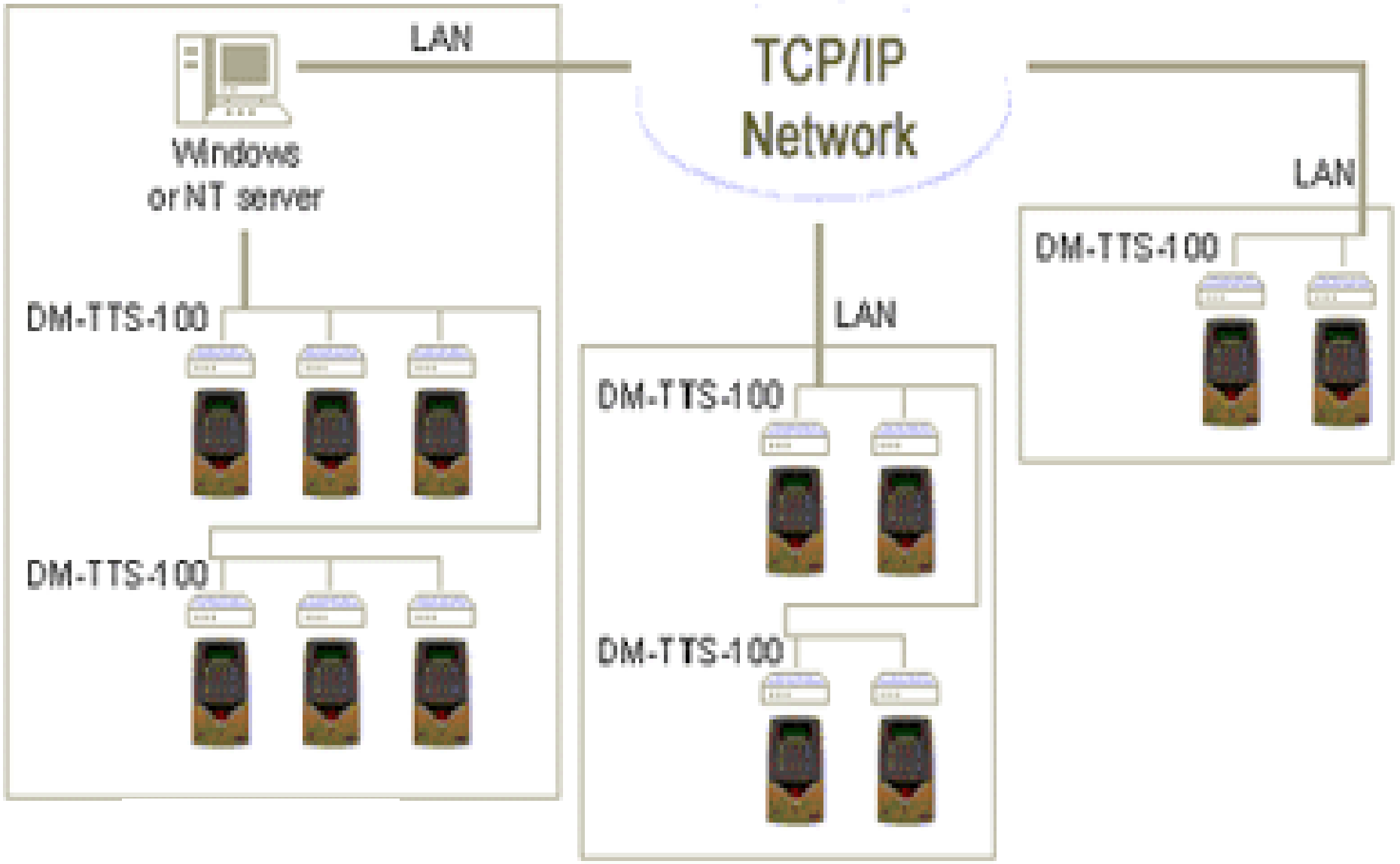
- SMART CARDS

- READER

- PC

APPLICATIONS OF SMART CARDS IN MCEME

- ACCESS CONTROL.
- FINANCIAL TRANSACTIONS.
- DATA UPDATION.
- HEALTH SERVICES.
- IDENTITY VERIFICATION


LAN
TCP/IP
Network
Windows
or NT server
DM-TTS-100
DM-TTS-100
LAN
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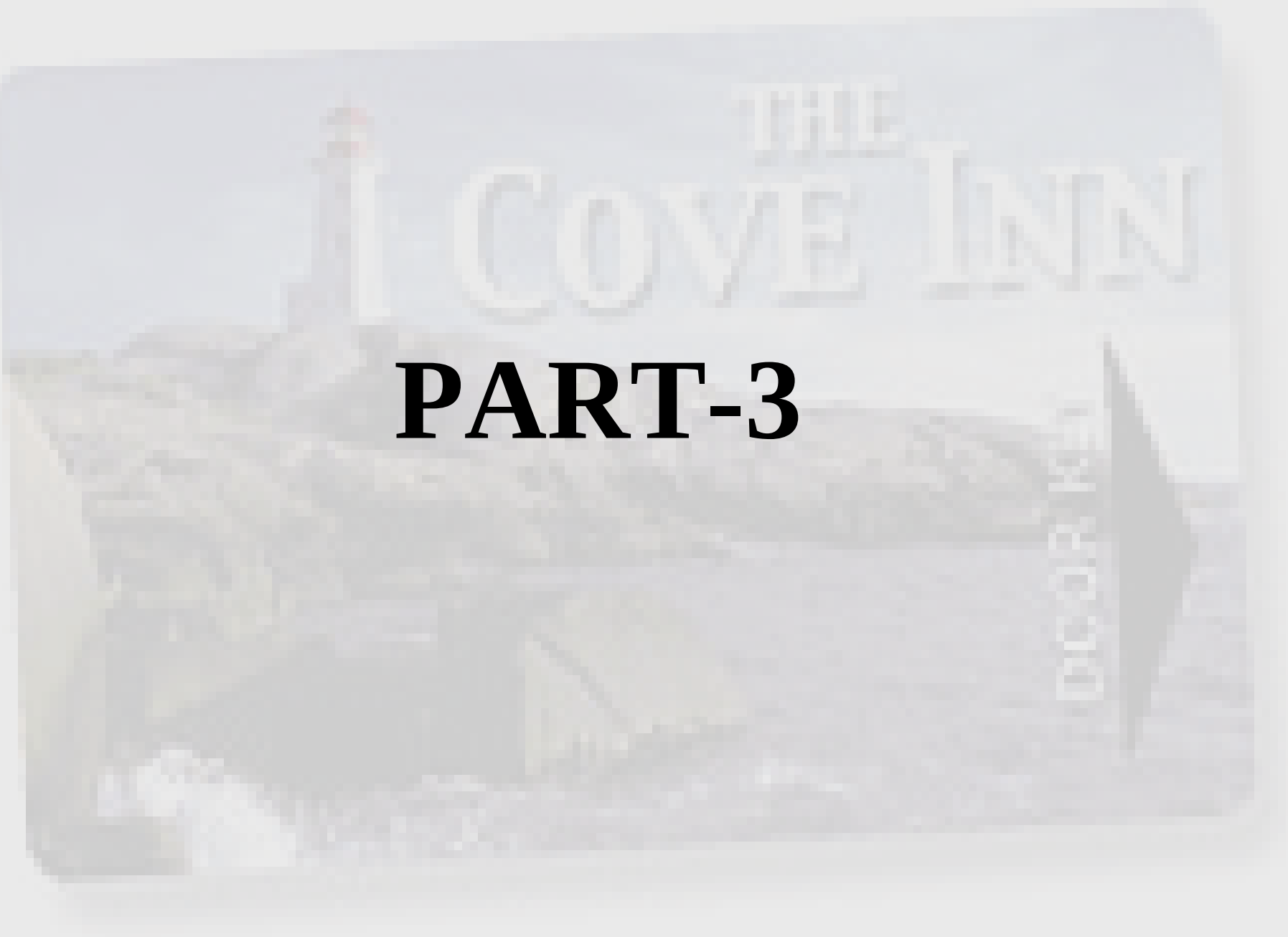

PART-3

MARKET SURVEY

THE NAME OF THE COMPANIES/FIRMS DEALING IN SMART CARDS ARE :

- INFOGENIEINDIA.COM .
- SRI SAI ELECTRONICS DESIGN CENTER.
- INTRA PLANET COMMUNICATION LIMITED.
- PARAMOUNT SMART PETRO CARD SERVICES LIMITED.
- AP LAB LIMITED.
- GLOBAL CONCEPT LIMITED.
- IRIS SMART CARDS LIMITED.

COST ANALYSIS

(CONTACT TYPE)

FIRM	SMART CARD(50 Ps) (4KB MEMORY)	READER
• INFOGENIEINDIA	7500/-	30000/-
• SRI SAI	7500/-	25000/-
• IPCL	5000/-	20000/-
• PARAMOUNT	7000/-	20000/-
• AP LAB LIMITED	10000/-	35000/-
• GLOBAL CONCEPT	8750/-	30000/-
• IRIS	5000/-	24000/-

PROBLEMS FACED

- FIRMS ARE NOT READY TO TELL COST OF THEIR SMART CARD AND READERS.
- AFTER SALES SERVICE.
- AVAILABILITY OF READERS AND MICROCONTROLLERS.
- CARD AND READER MOSTLY ARE PROPRIETRY ITEM.
- MINIMUM NUMBER OF ORDER TO BE PLACED.

CONCLUSION

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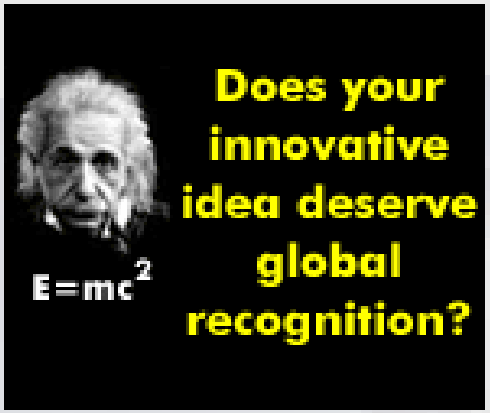

REPORT ON SMART CARDS

The Worldwide Deployment of Smart Cards and Related Technologies