AI – NATURAL DISASTER INTENSITY ANALYSIS

REQUIREMENT ANALYSIS

TABLE NO : 1

FMEA SPREADSHEET FOR POTENTIAL FAILURE MODES

Function requirement	Potential Failure mode	Potential effect of failure	Severit y class (a)	Potential cause	Occurrense (B)	Prevention	Detection (C)	Det	RPN A+B+C
DRP	Disaster	Disruption in flow of work	10	Fire	8	Fire extinguisher	Fire alarm	2	160
	Data loss			Earth quake	3	none	none	10	300
	Data corruption			Explosion	9	none	none	10	900
	Hardware failure			Theft	4	Security	Safety	1	40
	S / W failure			Hurricane	5	none	none	110	500

TABLE : 2

POTENTIAL RISKS OF THE EXISTING SYSTEM

S.NO	RISK	MITICATION	TASK
1.	Data loss	Ensure complete data backup.	Account for more data backup.
2.	Fire	Implement fire safe boxes and fire extinguishers, fire and smoke detection system and fire suppression system.	Account for in fire in disaster recovery plan.

3.	**Server Failure**	Run server maintenance to insure stability. Implement alternate server.	Account for changes in tasks to allow for server maintenance.
4.	**Theft**	Implement security system and verify doors are locked after business hours.	Develop physical security prevention measures. Develop burglar alarm.
6.	**Hurricane**	Move important resources off the floor.	Account for hurricane in disaster recovery plan.

TABLE NO : 3

HARDWARE AND SOFTWARE REQUIREMENT TO SET UP A DRP

S.NO	ITEM	DESCRIPTION
1.	Online backup server	IBM Tivoli storage Manager ver. 6.1 HP Data protector ver. 6.1 EMC Network ver. 7.5 Symantec Netback up ver. 6.5
2.	Operating system support	UNIX (Any OEM Version) Linux Windows
3.	Hardware	100 GB hard disk. 8 hard disk each of 146 GB for disk enclosure. 8GB DDR2 SDRAM with equalant expandable to at least 128GB RAM or more
4.	Processor	2 CPU latest 64 bit RISC processor or Intel core i3, EPIC

TABLE : 4

COST ANALYSIS

S.NO	ITEM	PURPOSE	COST (RS)
1.	DVD backups or hard disks.	To protect software and generated files.	6, 750
2.	Fire safe box	To protect tangible assets.	58, 500
3.	Hard drives	Duplicate systems to allow speedy recovery.	36, 000
4.	Security fund	TO quickly purchase equipments in time of crisis.	2, 25, 000
5.	Maintenance	To keep equipment and backup running smoothly.	13, 500
6.	Unforeseen costs	To account for budget for unforeseen charges in task or problem during implementation of disaster recovery plan.	1, 12, 500
		TOTAL	**4, 52, 250**