"APPLICATION OF MANAGEMENT INFORMATION SYSTEM IN NATURAL DISASTER MANAGEMENT"

QUESTIONNAIRE

1. Name: ________________________________
2. Designation: __________________________
3. Qualification: __________________________
4. Speciality/Faculty/Department: __________
5. Organisation: __________________________
6. Working on Current Position since: ______
7. Total experience in the Specified field: Executive ________
                                           Trainer ________
                                           Other ________ Total Years ______
8. What is the present system of Disaster Management in the State for the following:
   (a) Floods: ____________________________
   (b) Earthquake: _________________________
   (c) Cyclone: ____________________________
   (d) Drought: ____________________________
9. How many Natural Disasters you have handled during your service period.
   Type of disaster Year of event Role played
   1. ____________________________
   2. ____________________________
   3. ____________________________
   4. ____________________________
   5. ____________________________

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10. Difficulties faced by you in managing Natural Disaster. Please describe
   (a) Floods :
   (b) Earthquake :
   (c) Cyclone :
   (d) Drought :

11. Your views and suggestions in management of Natural Disaster.
   (a) Floods :
   (e) Earthquake :
   (f) Cyclone :
   (g) Drought :

12. How did you received information about Disaster from below level? Please (✓) any.
    (Local Level, Taluka Level, District Level)

    | Type of Disaster | Information System |
    |------------------|--------------------|
    | (a) Floods      | Phone/Fax/E-mail/HAM/Mobile Phone/Walki-talki |
    |                  | Personal Massage/Media(Print,T.V.,Radio)/Satellite |
    |                  | Phone/Wireless System/any other please specify |
    | (b) Earthquake  | Phone/Fax/E-mail/HAM/Mobile Phone/Walki-talki |
    |                  | Personal Massage/Media(Print,T.V.,Radio)/Satellite |
    |                  | Phone/Wireless System/any other please specify |
    | (c) Cyclone     | Phone/Fax/E-mail/HAM/Mobile Phone/Walki-talki |
    |                  | Personal Massage/Media(Print,T.V.,Radio)/Satellite |
    |                  | Phone/Wireless System/any other please specify |
    | (d) Drought     | Phone/Fax/E-mail/HAM/Mobile Phone/Walki-talki |
    |                  | Personal Massage/Media(Print,T.V.,Radio)/Satellite |
    |                  | Phone/Wireless System/any other please specify |
13. Your action after receiving information: (Tick any)

<table>
<thead>
<tr>
<th>Sr No</th>
<th>Action Taken</th>
<th>Flood</th>
<th>Earthquake</th>
<th>Cyclone</th>
<th>Drought</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Rush to the place to manage</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Rush to the location to get information</td>
<td></td>
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</tr>
<tr>
<td>3.</td>
<td>Gave direction to subordinates at a time</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>4.</td>
<td>Called a meeting</td>
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</tr>
<tr>
<td>5.</td>
<td>Approached superiors to get orders</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Tried to co-ordinate line depts., NGOs, Experts. Etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Left for location after arranging contact point</td>
<td></td>
<td></td>
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<tr>
<td>8.</td>
<td>Any other please specify</td>
<td></td>
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</tr>
</tbody>
</table>

14. In your views present Disaster Management Information System (DMIS) is satisfactory?  
   Yes/No.  

15. Your general views/suggestions for betterment of Disaster Management Information System (DMIS)  
   (a) Floods :  
   (b) Earthquake :  
   (c) Cyclone :  
   (d) Drought :

Place : _______________  
Date : _______________

(Investigator)

Survey for doctorate programme on MIS in NDM.
**QUESTIONNAIRE**

1. Name : __________________________________________

2. Designation : ______________________________________

3. Qualification : ______________________________________

4. Specialty/Faculty/ Department : _______________________

5. Organisation : ______________________________________

6. Working on Current position since : ____________________

7. Total experience in the specified field :  
   Executive ________  
   Trainer ________  
   Other ________ Total Years ________

8. What is the information system available to know about Occurrence of Disaster? (Please ✓ any)  
   (a) Through which level ? : State level functionary/ District/ Taluka/ Village/ Any other please specify.
   (b) Through person or Dept. ? : Police Dept./ TDO/Mamladtdar/Political Leader/ M.P./MLA/ Sarpanch/NGO representative/ Personal visit/ Any other please specify.
   (c) Through which communication System : Phone/Fax/E-mail/HAM/Mobile Phone/Walki-talki/Personal Massage/ Media (Print, T.V.,Radio)/Satellite Phone/Wireless System/ any other please specify
9. Do you have Disaster Management Department/Cell/Control Room at District level?

Yes/No.

If "YES" please give details of it.
1. 
2. 

If "NO" please give constraints of it:
1. 
2. 
3. 
4. 

10. How much response time it takes for action in case of natural severe calamity?
    (Please ✓ any)

    (1) Immediately (2) One Day (3) Two/Three days
    (4) Week (5) Fortnight

11. What is your control mechanism to administer this type of event? Please give details.

12. What mitigation (Long term + short term) measures are being taken at this level for Disaster Management (District level) (Please ✓ any)

1. Regarding Mapping of prone zones
2. Regarding improvement in predictability
3. Regarding improvement in forecasting systems
4. Regarding improvement in warning systems
5. Disaster preparedness plans
6. Land use zoning
7. Public/community Awareness program through IEC
8. If other, specify
13. What measures before disaster occurs **(pre-disaster situation)** is being taken at this level for Disaster Management. (District level) (Please ✓ any)

1. Long term / short term planning
2. Community participation and awareness programmes
3. Information Organisation and dissemination
4. HAMs co-ordination
5. Co-ordination and NGO networking
6. Alternate communication systems
7. Stock piling: Area / locations / commodities / instruments
8. Transport arrangement
9. Warning to the people
10. Constant communication with state level and event place.
11. Keeping health support system alert
12. If other, specify

14. What measures **during disaster situation** is being taken at this level for management of it. (District level) (Please ✓ any)

1. Evacuation and shifting
2. Search and rescue
3. Shelter to victims
4. Livestock management
5. Clearance of debris / dead bodies etc.
6. Health and casualty
7. Sanitation
9. If other, specify

15. What measures for the **post disaster situation** is being taken at this level. (District level) (Please ✓ any)

1. Relief: Drinking Water/ Food packets / Medicinal help / clothes / utensils.
2. Survey of damages occurred.
3. Preventive measures for diseases
4. Rehabilitation: Social / Economical / Agriculture and Irrigation / Housing Reconstruction / Housing retrofitting
5. If other, specify

16. How do you monitor and control the disaster relief activities by using following Information System? (Please ✓ any)

5. E-mail  6. Mobil Phone  7. Walki-taki  8. Information ads
9. Information leaflets  10. HAM Radio
17. Which of the present following facilities were useful in taking decision quickly to minimize the losses of lives and property? (Please ✓ any)

5. E-mail  6. Mobil Phone  7. Walki-taki  8. Information ads
9. Information leaflets  10. HAM Radio

18. What is current level of predictability in your system?

<table>
<thead>
<tr>
<th>Disaster</th>
<th>100%</th>
<th>75-100%</th>
<th>50-75%</th>
<th>25-50%</th>
<th>&lt;25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floods</td>
<td></td>
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<tr>
<td>Earthquake</td>
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<td>Cyclone</td>
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<tr>
<td>Drought</td>
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</tbody>
</table>

19. Is present M.I.S. satisfactory and helpful to manage and take decision quickly? Yes/No.

If “YES”, Please explain How?
1.
2.
3.

20. Your general views/suggestions for betterment of Disaster Management Information System (DMIS)

(a) Floods :  
(b) Earthquake :  
(c) Cyclone :  
(d) Drought :  

21. Do you want to opine something about various systems like:

<table>
<thead>
<tr>
<th>System</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Forecasting System</td>
<td></td>
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<tr>
<td>2. Warning System</td>
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<td>4. Information dissemination system</td>
<td></td>
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<td>5. Information channels. Up-down.</td>
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<tr>
<td>6. Public awareness system</td>
<td></td>
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<tr>
<td>7. Computerisation of various activities</td>
<td></td>
</tr>
<tr>
<td>8. Software : GIS, GPS</td>
<td></td>
</tr>
<tr>
<td>9. Information networking system</td>
<td></td>
</tr>
</tbody>
</table>

Place :___________  (Investigator)  
Date :___________  Survey for doctorate programme on MIS in NDM.
1. Name : ________________________________
2. Designation : __________________________
3. Qualification : __________________________
5. Speciality/Faculty/Department : ____________
5. Organisation : __________________________
1. Working on Current position since : ____________
7. Total experience in the specified field : Executive _______
                                           Trainer _______
                                           Other _______
                                           Total Years _______
8. Who informs you about natural calamity? How?

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Natural Calamity</th>
<th>Who</th>
<th>Level</th>
<th>how (communication system)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Floods</td>
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<td></td>
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<tr>
<td>2.</td>
<td>Earthquake</td>
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<tr>
<td>4.</td>
<td>Drought</td>
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</tr>
</tbody>
</table>

9. Do you have separate cell/control room to operate such natural calamity. Yes/No.

(a) If “YES”, no. of functionaries and their assigned duties.

1. 
2. 
3. 
4.
(b) If “NO” please give constraints of it?
1.
2.
3.
4.

10. Do you think, present strength of functionaries are adequate? Yes/No.

If “NO”, How much more required and in what category?
1.
2.
3.
4.

11. How do you monitor and control Disaster administration?
(1) Mobil Phone
(2) Radio/
(3) T.V.
(4) Telex/Fax
(5) Telephone
(6) Personal visits
(7) Announcement through public address system
(8) Daily Written Report
(9) Pamphlets/leaflets

12. Is the present system of Disaster administration
Excellent / Very Good / Good / fair (please ✓ any)

13. What are your views/suggestions to improve the present disaster management system. Please give details.
1.
2.
3.
4.
5.
14. **What mitigation (Long term + short term) measures are being taken at this level for Disaster Management** (Please ✓ any)

1. Regarding Mapping of prone zones  
2. Regarding improvement in predictability  
3. Regarding improvement in forecasting systems  
4. Regarding improvement in warning systems  
5. Disaster preparedness plans  
6. Land use zoning  
7. Public / community Awareness program through IEC  
8. If other, specify

15. **What measures before disaster occurs (pre-disaster situation) is being taken at this level for Disaster Management.** (Please ✓ any)

1. Long term / short term planning  
2. Community participation and awareness programmes  
3. Information Organisation and dissemination  
4. HAMs co-ordination  
5. Co-ordination and NGO networking  
6. Alternate communication systems  
7. Stock piling: Area / locations / commodities / instruments  
8. Transport arrangement  
9. Warning to the people  
10. Constant communication with state level and event place.  
11. Keeping health support system alert  
12. If other, specify

16. **What measures during disaster situation is being taken at this level for management of it.** (Please ✓ any)

1. Evacuation and shifting  
2. Search and rescue  
3. Shelter to victims  
4. Livestock management  
5. Clearance of debris / dead bodies etc.  
6. Health and casualty  
7. Sanitation  
9. If other, specify
17. What measures for the post disaster situation is being taken at this level. (Please ✓ any)

1. Relief: Drinking Water/ Food packets / Medicinal help / clothes / utensils.
2. Survey of damages occurred.
3. Preventive measures for diseases.
4. Rehabilitation: Social / Economical / Agriculture and Irrigation / Housing Reconstruction / Housing retrofitting.
5. If other, specify.

18. Is present information system adequate to manage disasters? Yes/No.

If "NO" what additional support required by you for pre, during and post disaster condition.

<table>
<thead>
<tr>
<th>Type</th>
<th>Pre.</th>
<th>During</th>
<th>Post</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Floods</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>4. Drought</td>
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</tr>
</tbody>
</table>

19. Does your office have following facilities / equipment for fast communication and decision making process for management of disasters? (please ✓)

- Phone/ Fax/ E-mail/ HAM/ Mobile Phone/ Walki-talki/ Media(Print, T.V., Radio)/ Satellite Phone/ Wireless System/ any other please specify.

20. Do your office have trained staff to handle with new Information Technology equipment. Yes/No.

If "NO" how do you manage to work with it?

21. Do you believe that information technology will help you for better management of such natural calamities? Yes/No.
22. With your practical experience, which type of DMIS should be developed to prevent/minimize the damages due to disasters, spell briefly.

1. Floods :
2. Earthquake :
3. Cyclone :
4. Drought :

23. Do you want to opine something about various systems like:

<table>
<thead>
<tr>
<th>System</th>
<th>Comments</th>
</tr>
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</tbody>
</table>

Place :_____________ (Investigator)
Date :

Survey for doctorate programme on MIS in NDM.
"APPLICATION OF MANAGEMENT INFORMATION SYSTEM IN NATURAL DISASTER MANAGEMENT"

QUESTIONNAIRE

1. Name
2. Designation
3. Qualification
4. Total experience in the specified field: Executive __________
   Trainer ________ Other ________ Total Years ________
5. Name of NGO
6. Address & Phone/Fax
7. E-mail
8. Specific Fields of activities
9. Specific districts for the activities
10. How many type of disaster you have handled? When? Where?
    Type of Disaster Year of event Place Role Played
    1.
    2.
    3.
    4.
    5.
11. What is your source of information for disaster?

<table>
<thead>
<tr>
<th>Sr.</th>
<th>Type of Disaster</th>
<th>Level of Source</th>
<th>Communication System used</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Floods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Earthquake</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Cyclone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Drought</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. In general, NGO involvement in Natural Disaster Management is None/ Seldom/ week / ok / Strong.
13. What has been the community participation level?
   Complete / Considerable / Feeble / None

14. Have you collaborated with any other agency including State/Central
    Government?
   Yes/No.
   If "YES", Please state;
   Type of Disasters    Agency    Period
   1. Floods
   2. Earthquake
   3. Drought
   4. Cyclone

15. Do you possess the following information technology equipment? Please (✓)
    any.
    Yes/No
    Telephone/Fax/E-mail/HAM/Mobile Phone/Walki-talki/ Telex/ Computer/ Media
    (Print,T.V.,Radio)/Satellite Phone/Wireless System/any other please specify

16. Do you think that proper and timely information helps in taking appropriate
decision?
   Yes/No

17. According to you what kind of preventive and timely information can help to
    Minimize the effect/Damages due to disaster?

   Sr.    Type    Type of information
   1. Floods
   2. Earthquake
   3. Cyclone
   4. Drought

18. What type of information can help to speed up the disaster management work?

   Sr. Type of Disaster    Type of information
   1. Floods
   2. Earthquake
   3. Cyclone
   4. Drought

19. Give your views and suggestion about what type of information technology should
    Be adopted for Disaster Management or best suitable DMIS.
20. What is current level of predictability in our system?

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</tbody>
</table>

21. Any traditional system or mechanism for prediction of natural disasters in your knowledge? Please give details:

<table>
<thead>
<tr>
<th>Sr.</th>
<th>Type of Disaster</th>
<th>System or Mechanism</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Floods</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Earthquake</td>
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</tr>
</tbody>
</table>

23. Your and your organization's role in DMIS? Which kind of activities and up to What extent?

Place: ________________
Date: ________________

Survey for doctorate programme on MIS in NDM.
“APPLICATION OF MANAGEMENT INFORMATION SYSTEM IN NATURAL DISASTER MANAGEMENT”

QUESTIONNAIRE

1. Name: ___________________________________________

2. Address & Contact No: _______________________________
   (Telephone/Fax) _________________________________

3. Are you a member of Local / Taluka / District / State legislative body?
   Yes / No
   If “YES”; Designation: ______________________________
   Working on Current position since: ___________________
   Occupation: ______________________________________
   Age: ________  Sex: __________

4. How many following natural disasters have you come across? Give details:

<table>
<thead>
<tr>
<th>Sr.</th>
<th>Type of Disaster</th>
<th>When</th>
<th>Where</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Flood</td>
<td></td>
<td></td>
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<tr>
<td>2.</td>
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<td>Drought</td>
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</tbody>
</table>

5. What was the system in the village to inform Taluka/District Machinery about following natural disasters?

<table>
<thead>
<tr>
<th>Type</th>
<th>Personally</th>
<th>Telephone</th>
<th>Panchayat Messenger</th>
<th>Group Representation</th>
<th>Political Leader</th>
<th>Any other system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood</td>
<td></td>
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<tr>
<td>Cyclone</td>
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</table>

6. Does your village have telephone facility?  Yes / No.

7. Do you have your own telephone?  Yes / No.

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9. Does village Panchayat office have telephone facility? Yes / No.

10. Does your Panchayat telephone remain in order most of the time? Yes / No.
    If “NO”, it is out of order – always / most of the time / rarely (Please check any)

11. Does your village Panchayat have T.V. set? Yes / No.
    If “YES”, when did your Village Panchayat acquired it? Year ________

12. Is your Panchayat’s T.V. set working properly? Yes / No.
    If “NO”, since when it is out of order? Months/ Year ________

13. Do you have your own T.V. Set? Yes / No.
    If “YES”, When did you purchase it? Year ________

14. Do you think that T.V. and Telephone are very useful in the time of Natural Disaster? Yes / No.
    If “YES” how? Please explain.
    1.
    2.
    3.
    4.
    5.

15. What Government help generally do you receive for the following natural disaster?

<table>
<thead>
<tr>
<th>Type of Disaster</th>
<th>Cash</th>
<th>Relief work</th>
<th>Medicines</th>
<th>Kind</th>
<th>Any other systems</th>
<th>Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyclone</td>
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</tr>
<tr>
<td>Earthquake</td>
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</tr>
<tr>
<td>Drought</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

16. Have your village received Government help in time? Yes / No.
    If “NO”, please give details

<table>
<thead>
<tr>
<th>Type</th>
<th>Immediately</th>
<th>Hours</th>
<th>Days</th>
<th>Week</th>
<th>&gt; Two Weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood</td>
<td>3 6 12</td>
<td>1 2 3</td>
<td>1 2 3 1 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyclone</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earthquake</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drought</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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17. Which of the following agencies generally helped your village promptly?

<table>
<thead>
<tr>
<th>Type of Disaster</th>
<th>Local level</th>
<th>Taluka level</th>
<th>District level</th>
<th>Socio</th>
<th>N.G.O</th>
<th>Religious Org.</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyclone</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>Drought</td>
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<td></td>
</tr>
</tbody>
</table>

18. Are the actions taken by government adequate and timely? Yes / No.

If “NO”, in your opinion what action would have been more appropriate?

<table>
<thead>
<tr>
<th>Sr.</th>
<th>Type of Disaster</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Flood</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cyclone</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Earth Quick</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Drought</td>
<td></td>
</tr>
</tbody>
</table>

19. Are you satisfied with the present information system of informing higher authority? Yes / No.

If “NO” please give your suggestions.

1. 
2. 
3. 
4. 
5. 

20. Do you think that disasters are preventable?

If “YES”, How?

1. 
2. 
3. 
4. 
5. 

If “NO” ; why?

1. 
2. 
3. 
4. 
5. 

21. How do you monitor and control the post disaster activities?

1. 
2. 
3. 
4.
22. What measures/suggestions do you suggest to minimize/avoid disaster damages?

1.
2.
3.
4.
5.

23. Do you want to opine something about various systems like:

<table>
<thead>
<tr>
<th>System</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Forecasting System</td>
<td></td>
</tr>
<tr>
<td>2. Warning System</td>
<td></td>
</tr>
<tr>
<td>3. Information collection system</td>
<td></td>
</tr>
<tr>
<td>4. Information dissemination system</td>
<td></td>
</tr>
<tr>
<td>5. Information channels. Up-down.</td>
<td></td>
</tr>
<tr>
<td>6. Public awareness system</td>
<td></td>
</tr>
<tr>
<td>7. Computerisation of various activities</td>
<td></td>
</tr>
<tr>
<td>8. Software: GIS, GPS</td>
<td></td>
</tr>
<tr>
<td>9. Information networking system</td>
<td></td>
</tr>
</tbody>
</table>

24. What has been the community participation level? (Please ✓ any)
   Complete / Considerable / Feeble / None

25. Do you know about any traditional system or mechanism for prediction of Natural disasters? Please give details;

<table>
<thead>
<tr>
<th>Sr.</th>
<th>Type of Disaster</th>
<th>System or Mechanism</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Floods</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Earthquake</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Cyclone</td>
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</tr>
<tr>
<td>4.</td>
<td>Drought</td>
<td></td>
</tr>
</tbody>
</table>

Place: ________________  (Investigator)
Date: ________________

Survey for doctorate programme on MIS in NDM.