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| DMH Capacity Assessment: Seismology |

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| Parameters | Current Capacity | Minimum Requirements | Optimum Requirements |
| Number and Distribution | Manual/Automatic  | Recording Frequency | Transmis-sion | Number and Distribution | Manual/ Automatic | Recording Frequency | Transmis-sion | Number and Distribution | Manual/ Automatic | Recording Frequency | Transmis-sion |
| Observing and monitoring system |
| Seismic  | (4) Analog Seismo-graph(8) Digital Seismo-graph(11) strong motion accelero-meter | Manual and Automa-tic | Every second and minute | ADSL, VSAT, Fax and Phone | Need more Digital Seismo-graphs | Auto-matic | Every Second and Minute | ADSL and VSAT | Need more Digital Seismo-graphs | Automa-tic | Every Second and Minute | ADSL and VSAT |
| Analysis of gaps and related impacts: More digital seismographs of the same data format are required. Currently, data format from various stations are not the same; hence the need to convert to the same data format, for seismic monitoring and data processing. |
| On-going and planned capacity building initiatives by other organizations: Japan International Cooperation Agency (JICA), China Earthquake Administration (CEA), World Seismic Safety Initiative (WSSI)/OYO Cooperation, US Geological Survey (USGS), UNESCO/IOC, Norwegian Ministry of Foreign Affairs, Asian Disaster Preparedness Center (ADPC), and Regional Integrated Multi-Hazard Early Warning System (RIMES) have ongoing collaborative initiatives with NEDC. |
| Recommendations to address gaps, including opportunities for research: Data from different stations need to be converted to the same data format to facilitate analysis. This is also required for assessing earthquake-prone area in the country.  |
| Parameters | **Current Capacity** | **Minimum Requirements** | **Optimum Requirements** |

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| Data processing and management  |
| Data receipt (timeliness) | 10-20 minutes | 5-10 minutes | 5 minutes |
| Data format (consistency) | Different Format | Same Format | Same Format |
| Data storage  | Internal and External Hardisk | - | - |
| Software  | Different Software | Automatic Solution Software(e.g. SeisComP3) | Automatic Solution Software(e.g. SeisComP3) |
| Skilled manpower  | 13 staffs | 20 staffs | 25 staffs |
| Analysis of gaps and related impacts:  |
| On-going and planned capacity building initiatives by other organizations: |
| Recommendations to address gaps, including opportunities for research  |
| Parameters | **Current Capacity** | **Minimum Requirements** | **Optimum Requirements** |
| Prediction and forecasting  |
| Computing capacity  |  |  |  |
| Modeling software  |  |  |  |
| Skilled manpower  |  |  |  |
| Operating hours  |  |  |  |
| Use of thresholds  |  |  |  |
| Analysis of gaps and related impacts:  |
| On-going and planned capacity building initiatives by other organizations: |
| Recommendations to address gaps, including opportunities for research  |
| Parameters | **Current Capacity** | **Minimum Requirements** | **Optimum Requirements** |
| Bulletin development  |
| Parameters  |  |  |  |
| User list (availability, frequency of updates, classified by user groups/sectors?) |  |  |  |
| User-specific bulletins  |  |  |  |
| Analysis of gaps and related impacts:  |
| On-going and planned capacity building initiatives by other organizations: |
| Recommendations to address gaps, including opportunities for research  |

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| Parameters | Current Capacity | Minimum Requirements | Optimum Requirements |
| Dissemination system |
| Warning focal points  | DMH (Tsunami Warning) | - | - |
| Communication channels  | Fax, Phone, Mail, SSB | Satellite Phone and SSB | Satellite Phone |
| Confirmation of receipt by users | Fax, Phone, Mail, SSB | Satellite Phone | Satellite Phone |
| User feedback  | Rapid response | Rapid response | Rapid response |
| Communication tests (mode, frequency) | 2 times per year | 4 times per year | 4 times per year |
| Analysis of gaps and related impacts:  |
| On-going and planned capacity building initiatives by other organizations: |
| Recommendations to address gaps, including opportunities for research  |