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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 | | | | | | |