

# DISASTER RISK REGISTER

# ANNEXURE “D”

| HAZARD                    | HAZARD  |  |   |               | Vulnerability   |           |          |           |            |                      | CAPACITY  |               |             |                                   |                   |                   | Relative Risk Rating | Relative Risk Priority |                 |
|---------------------------|---|--|---|---------------|---|-----------|----------|-----------|------------|----------------------|---|---------------|-------------|-----------------------------------|-------------------|-------------------|----------------------|------------------------|-----------------|
|                           | Score:<br>4. Very Likely<br>3. Likely<br>2. Unlikely<br>1. Rare | Score:<br>4. Monthly/weekly<br>3. Every 1 - 2 years<br>2. Every 2 - 5 years<br>1. Every 5 - 10 years | Score:<br>4. Major<br>3. Serious<br>2. Minor<br>1. Negligible | Hazard Rating | Vulnerability Score:<br>4. Extremely Vulnerable<br>3. Seriously Vulnerable<br>2. Slightly Vulnerable<br>1. Not Vulnerable |           |          |           |            | Vulnerability Rating | Capacity Score:<br>4. Very Good<br>3. Good<br>2. Poor<br>1. Very Poor |               |             |                                   |                   |                   |                      |                        | Capacity Rating |
|                           |   |  |   |               | Probability   | Frequency | Severity | Political | Economical |                      | Social  | Technological | Environment | Physical Planning and Engineering | Societal Capacity | Economic Capacity |                      |                        |                 |
| Drought                   | 3   | 3  | 4   | 10            | 1   | 4         | 4        | 3         | 4          | 16                   | 2   | 3             | 1           | 3                                 | 1                 | 1                 | 11                   | 14.545                 | extremely high  |
| Wildland fire             | 4   | 4  | 4   | 12            | 1   | 3         | 3        | 2         | 2          | 11                   | 2   | 3             | 2           | 2                                 | 3                 | 2                 | 14                   | 9.429                  | high            |
| Social conflict           | 3   | 4  | 3   | 10            | 1   | 4         | 3        | 2         | 2          | 12                   | 2   | 2             | 1           | 2                                 | 3                 | 3                 | 13                   | 9.231                  | high            |
| Tsunami                   | 3   | 1  | 3   | 7             | 1   | 4         | 3        | 3         | 3          | 14                   | 2   | 2             | 1           | 2                                 | 2                 | 2                 | 11                   | 8.909                  | high            |
| Structural fire           | 4   | 4  | 3   | 11            | 2   | 2         | 2        | 2         | 1          | 9                    | 2   | 3             | 2           | 2                                 | 2                 | 2                 | 13                   | 7.615                  | high            |
| Coastal erosion           | 3   | 4  | 2   | 9             | 1   | 2         | 2        | 2         | 3          | 10                   | 2   | 2             | 2           | 2                                 | 2                 | 2                 | 12                   | 7.500                  | high            |
| HAZMAT: ocean spill       | 2   | 2  | 4   | 8             | 1   | 2         | 2        | 1         | 4          | 10                   | 2   | 2             | 2           | 2                                 | 2                 | 1                 | 11                   | 7.273                  | high            |
| Pest infestation          | 3   | 4  | 2   | 9             | 1   | 3         | 3        | 1         | 3          | 11                   | 3   | 2             | 3           | 2                                 | 3                 | 2                 | 15                   | 6.600                  | tolerable       |
| Nuclear event             | 1   | 1  | 4   | 6             | 1   | 3         | 3        | 2         | 4          | 13                   | 3   | 2             | 1           | 2                                 | 2                 | 2                 | 12                   | 6.500                  | tolerable       |
| Endemism                  | 3   | 4  | 2   | 9             | 1   | 3         | 3        | 1         | 3          | 11                   | 3   | 3             | 2           | 3                                 | 3                 | 2                 | 16                   | 6.188                  | tolerable       |
| Water supply disruption   | 3   | 4  | 2   | 9             | 1   | 3         | 3        | 2         | 1          | 10                   | 2   | 3             | 2           | 3                                 | 3                 | 2                 | 15                   | 6.000                  | tolerable       |
| HAZMAT: road              | 3   | 2  | 2   | 7             | 1   | 2         | 2        | 2         | 3          | 10                   | 2   | 2             | 2           | 2                                 | 2                 | 2                 | 12                   | 5.833                  | tolerable       |
| Disruption of electricity | 4   | 4  | 2   | 10            | 1   | 2         | 2        | 2         | 1          | 8                    | 2   | 3             | 2           | 3                                 | 3                 | 2                 | 15                   | 5.333                  | tolerable       |
| Floods                    | 4   | 3  | 3   | 10            | 1   | 2         | 2        | 2         | 1          | 8                    | 2   | 3             | 2           | 2                                 | 3                 | 3                 | 15                   | 5.333                  | tolerable       |
| Shipping incident         | 2   | 2  | 3   | 7             | 1   | 2         | 2        | 1         | 3          | 9                    | 2   | 3             | 2           | 2                                 | 2                 | 1                 | 12                   | 5.250                  | tolerable       |
| Sea level rise            | 3   | 1  | 2   | 6             | 1   | 2         | 2        | 2         | 3          | 10                   | 2   | 2             | 2           | 2                                 | 2                 | 2                 | 12                   | 5.000                  | tolerable       |
| Storm surge               | 3   | 3  | 2   | 8             | 1   | 2         | 2        | 2         | 2          | 9                    | 2   | 2             | 2           | 3                                 | 3                 | 3                 | 15                   | 4.800                  | tolerable       |
| Human diseases            | 4   | 4  | 3   | 11            | 1   | 2         | 2        | 1         | 1          | 7                    | 3   | 3             | 3           | 3                                 | 3                 | 3                 | 18                   | 4.278                  | tolerable       |
| Severe weather            | 3   | 4  | 1   | 8             | 1   | 2         | 2        | 2         | 1          | 8                    | 2   | 2             | 2           | 3                                 | 3                 | 3                 | 15                   | 4.267                  | tolerable       |
| Aircraft incident         | 2   | 2  | 2   | 6             | 1   | 2         | 2        | 2         | 2          | 9                    | 2   | 2             | 3           | 3                                 | 3                 | 3                 | 16                   | 3.375                  | low             |
| Road incident             | 4   | 4  | 1   | 9             | 1   | 1         | 2        | 1         | 1          | 6                    | 3   | 3             | 2           | 3                                 | 3                 | 3                 | 17                   | 3.176                  | low             |

Source by WCDM