Manas Wildlife Sanctuary

1. World Heritage Property Data

1.1 - Name of World Heritage property

Manas Wildlife Sanctuary

1.2 - World Heritage property details

1.3 - Geographic information table

| Name | Coordinates | Property (ha) | Buffer zone (ha) | Total (ha) | Inscription year | |
|--|-----------------|---------------|------------------|-------------|------------------|--|
| Manas Wildlife Sanctuary | 26.725 / 91.031 | 39100 | 0 | 39100 | 1985 | |
| Total (ha) | | 39100 | 0 | 39100 | | |
| 1.4 - Map(s) | | | | | | |
| Title | | | C | bate Link t | o source | |
| Manas Wildlife Sanctuary. Map of the inscrib | ed property. | | 2 | 2012 | | |

1.5 - Web and Social Media data of the property (if applicable)

1. Natural site datasheet from WCMC

Comment

http://www.manastigerproject.in/ https://whc.unesco.org/en/list/338/ https://www.facebook.com/groups/226681380842096

2. Other Conventions/Programmes under which the World Heritage property is protected (if applicable)

2.1 - Records indicate that your World Heritage property (in whole or in part) is designated and/or protected under the Conventions/programmes shown in the prefilled table below. Please check and amend as necessary.

| | | The World Heritage property (in whole or in part) <u>is</u> designated and/or protected under this convention/programme | The World Heritage property (in whole or in part) <u>is not</u> designated and/or protected under this convention/programme |
|-------|---|---|---|
| 2.1.1 | International Register of Cultural Property under Special Protection (1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict) | | × |
| 2.1.2 | List of Cultural Property under Enhanced Protection (Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict) | | × |
| 2.1.3 | The List of Wetlands of International Importance (The Ramsar List) (Convention on Wetlands of International Importance (Ramsar Convention)) | | × |
| 2.1.4 | World Network of Biosphere Reserves Man and the Biosphere (MAB) Programme | × | |
| 2.1.5 | Global Geoparks Network UNESCO Global Geoparks | | × |

2.2 - Please provide comments on 2.1 if necessary

'Manas' is designated as a Biosphere Reserve in India under the Man and Biosphere Programme, although it is not yet included on the World Network of Biosphere Reserves.

2.3 - Do your national authorities intend to request the granting of Enhanced Protection (if relevant) under the Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict for the World Heritage property in the next three years?

Not applicable

2.4 - Do your national authorities intend to designate whole or part of the World Heritage property for inclusion in the List of Wetlands of International Importance (The Ramsar List), if relevant, in the next three years? Not applicable

2.5 - Do your national authorities intend to designate whole or part of the World Heritage property as a Man and Biosphere Reserve (if relevant) in the next three years?

2.6 - Do your national authorities intend to apply for whole or part of World Heritage property to be designated as a UNESCO Global Geopark (if relevant) in the next three years?

Not applicable

2.7 - Please indicate the level of cooperation at property level between designations under different Conventions/Programmes

| 074 | 1051 Hanne Oranin facility Protocology (Orling) Protocology in the France of Annual Oran | |
|-------|---|---|
| 2.7.1 | 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict | |
| 2.7.1 | There is no contact with the Focal Point(s) of this designation/programme. | × |
| 2.7.2 | The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme. | |
| 2.7.3 | The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme. | |
| 2.7.4 | The World Heritage Site Manager also manages this designation/programme. | |
| 2.7.2 | Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict | |
| 2.7.1 | There is no contact with the Focal Point(s) of this designation/programme. | × |
| 2.7.2 | The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme. | |
| 2.7.3 | The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme. | |
| 2.7.4 | The World Heritage Site Manager also manages this designation/programme. | |
| 2.7.3 | Convention on Wetlands of International Importance (Ramsar Convention) | |
| 2.7.1 | There is no contact with the Focal Point(s) of this designation/programme. | × |
| 2.7.2 | The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme. | |
| 2.7.3 | The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme. | |
| 2.7.4 | The World Heritage Site Manager also manages this designation/programme. | |
| 2.7.4 | Man and the Biosphere (MAB) Programme | |
| 2.7.1 | There is no contact with the Focal Point(s) of this designation/programme. | |
| 2.7.2 | The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme. | |
| 2.7.3 | The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme. | |
| 2.7.4 | The World Heritage Site Manager also manages this designation/programme. | × |
| 2.7.5 | UNESCO Global Geoparks | |
| 2.7.1 | There is no contact with the Focal Point(s) of this designation/programme. | × |
| 2.7.2 | The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme. | |
| 2.7.3 | The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme. | |
| 2.7.4 | The World Heritage Site Manager also manages this designation/programme. | |
| | | |

2.8 - Please add any further comments on cooperation with the other designation(s)/programme(s)

2.9 - Are you aware of any elements associated with the World Heritage property that have been inscribed on the Representative List of the Intangible Cultural Heritage?

Not aware

2.10 - Please list any elements associated with the World Heritage property inscribed under the Convention for the Safeguarding of the Intangible Cultural Heritage of which you are aware Not aware.

2.11 - Are you aware of any documentary heritage listed under the Memory of the World Programme associated with the World Heritage property?

Not aware

2.12 - Please list any documentary heritage associated with the World Heritage property listed under the Memory of the World Programme of which you aware.

3. Statement of Outstanding Universal Value

3.1 - Statement of Outstanding Universal Value for the property as adopted by the World Heritage Committee

Statement of Outstanding Universal Value Brief synthesis

Manas Wildlife Sanctuary is located in the State of Assam in North-East India, a biodiversity hotspot. Covering an area of 39,100 hectares, it spans the Manas river and is bounded to the north by the forests of Bhutan. The Manas Wildlife Sanctuary is part of the core zone of the 283,700 hectares Manas Tiger Reserve, and lies alongside the shifting river channels of the Manas River. The site's scenic beauty includes a range of forested hills, alluvial grasslands and tropical evergreen forests. The site provides critical and viable habitats for rare and endangered species, including tiger, greater one-horned rhino, swamp deer, pygmy hog and Bengal florican. Manas has exceptional importance within the Indian sub-continent's protected areas, as one of the most significant remaining natural areas in the region, where sizeable populations of a large number of threatened species continue to survive.

Criterion (vii): Manas is recognized not only for its rich biodiversity but also for its spectacular scenery and natural landscape. Manas is located at the foothills of the Eastern Himalayas. The northern boundary of the park is contiguous to the international border of Bhutan manifested by the imposing Bhutan hills. It spans on either side of the majestic Manas river flanked in the east and the west by reserved forests. The tumultuous river swirling down the rugged mountains in the backdrop of forested hills coupled with the serenity of the alluvial grasslands and tropical evergreen forests offers a unique wilderness experience.

Criterion (ix): The Manas-Beki system is the major river system flowing through the property and joining the Brahmaputra river further downstream. These and other rivers carry an enormous amount of silt and rock debris from the foothills resulting from the heavy rainfall, fragile nature of the rock and steep gradients of the catchments. This leads to the formation of alluvial terraces, comprising deep layers of deposited rock and detritus overlain by sandy loam and a layer of humus represented by bhabar tracts in the north. The terai tract in the south consists of fine alluvial deposits with underlying pans where the water table lies near to the surface. The area contained by the Manas-Beki system gets inundated during the monsoons but flooding does not last long due to the sloping relief. The monsoon and river system form four principal geological habitats: Bhabar savannah, Terai tract, marshlands and riverine tracts. The dynamic ecosystem processes support broadly three types of vegetation: semi-evergreen forests, mixed moist and dry deciduous forests and alluvial grasslands. The dry deciduous forests represent an early stage in succession that is constantly renewed by floods and is replaced by moist decidous forests away from water courses, which in turn are replaced by semi evergreen climax forests. The vegetation of Manas has tremendous regenerating and self-sustaining capabilities due to its high fertility and response to natural grazing by herbivorous animals.

Criterion (x): The Manas Wildlife Sanctuary provides habitat for 22 of India's most threatened species of mammals. In total, there are nearly 60 mammal species, 42 reptile species, 7 amphibians and 500 species of birds, of which 26 are globally threatened. Noteworthy among these are the elephant, tiger, greater one-horned rhino, clouded leopard, sloth bear, and other species. The wild buffalo population is probably the only pure strain of this species still found in India. It also harbours endemic species like pygmy hog, hispid hare and golden langur as well as the endangered Bengal florican. The range of habitats and vegetation also accounts for high plant diversity that includes 89 tree species, 49 shrubs, 37 undershrubs, 172 herbs and 36 climbers. Fifteen species of orchids, 18 species of fern and 43 species of grasses that provide vital forage to a range of ungulate species also occur here.

Integrity

The property is a wildlife sanctuary with a focus on maintaining the integrity of the property as a natural area. It forms the core of a larger national park, the boundaries of which are clearly demarcated and supervised. Manas Wildlife Sanctuary is buffered on the north by the Royal Manas National Park of Bhutan and on the east and west less effectively by the Manas Tiger Reserve. Transboundary cooperation is therefore important to the effectiveness of its protection.

Protection and management requirements

The property, which has six national and international designations (i.e. World Heritage Site, National Park, Tiger Reserve (core), Biosphere Reserve (national), Elephant Reserve (core) and Important Bird Area) has the highest legal protection and strong legislative framework under the provisions of Indian Wildlife (Protection) Act, 1972 and Indian Forest Act, 1927/Assam Forest Regulation 1891. The property benefits from government support at both national and regional levels as well as involvement of national and international conservation organisations.

The property is managed under the administration of the Assam Forest Department / Bodoland Territorial Council. A comprehensive and approved Management Plan is an essential requirement, together with effective patrolling and enforcement capacity to deal with the threats of encroachment, grazing and poaching. The provision of adequate infrastructure, skilled personnel and monitoring arrangements for the property are all essential requirements. Scientific research and monitoring for habitat and invasive species management and recovery of wildlife populations is a particular imperative for management to ascertain and maintain the Outstanding Universal Value of the property. The property is home to 400 varieties of wild rice, also making the management of its biodiversity values of high importance to food security.

Provision of effective tourism facilities, visitor information and interpretation is also a priority for the park management. A sustainable financing mechanism needs to be ensured to provide the necessary financial resources for the long term management of the property. The surrounding buffer zones are managed on a multiple use basis, and a balance is required between conservation and resource extraction in the management of these areas. Involvement of local communities who live and make use of the areas adjacent to the reserve in protection efforts for the property is essential, and a key management objective is to enhance their engagement and awareness in the interest of the preservation of the property. There is potential to extend the property to coincide with the boundaries of the national park of which it forms the core. The establishment of a transboundary world heritage property across the Indian and Bhutanese Manas Tiger Conservation Landscape would enable greater coordination and cooperation in the management of habitat and wildlife populations and would strengthen protection as well.

3.2 - Please list the key attributes of Outstanding Universal Value of your property and give an assessment of their condition. As a guideline, it is suggested to focus on approximately five key attributes (no more than 15 overall).

| | Brief identification of attribute | Preserved | Compromised | Seriously compromised | Lost |
|-------|--|-----------|-------------|-----------------------|------|
| 3.2.1 | Wilderness area of exceptional natural beauty | × | | | |
| 3.2.2 | Dynamic ecological processes supporting a rich diversity of ecosystems | × | | | |
| 3.2.3 | High plant and animal diversity | × | | | |
| 3.2.4 | Threatened species of mammals | × | | | |
| 3.2.5 | Threatened species of birds | × | | | |
| 3.2.6 | | | | | |
| 3.2.7 | | | | | |
| 3.2.8 | | | | | |
| 3.2.9 | | | | | |

| 3.2.10 | | | |
|--------|--|--|--|
| 3.2.11 | | | |
| 3.2.12 | | | |
| 3.2.13 | | | |
| 3.2.14 | | | |
| 3.2.15 | | | |

3.3 - Comments, conclusions and/or recommendations related to Statement of Outstanding Universal Value

4. Factors Affecting the Property

4.1. Buildings and Development

4.1.1 - Housing

Previous answer Cycle 2 (30/07/2011):

| Not relevant | |
|---|----------------|
| Relevant | X Not relevant |
| 4.1.2 - Commercial development Previous answer Cycle 2 (30/07/2011): Not relevant | |
| Relevant | X Not relevant |
| 4.1.3 - Industrial areasPrevious answer Cycle 2 (30/07/2011):Not relevant | |
| Relevant | X Not relevant |
| 4.1.4 - Major visitor accommodation and associated infrast Previous answer Cycle 2 (30/07/2011): Not relevant | tructure |
| Relevant | X Not relevant |

4.1.5 - Interpretative and visitation facilities

Previous answer Cycle 2 (30/07/2011):

• Relevant, Positive, Potential, Outside

| X Relevant | | | 1 | Not relevant | | | |
|--------------|-----------|-----------|--------|--------------|---------------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | Potential | Inside | Cutside | Solution Decreasing | ⇒ Stable | Increasing |
| O Positive X | | × | | × | | | |
| Negative | | | | | | | |

4.1.6 - Please comment as necessary on how the factors selected as relevant in 4.1 are affecting the property either negatively or positively

Factors selected as relevant in 4.1 are affecting the property positively.

4.2. Transportation Infrastructure

4.2.1 - Ground transport infrastructure

- Previous answer Cycle 2 (30/07/2011):
 - Relevant, Negative, Potential, Inside

| × Relevant | | | | Not relevant | | | |
|------------|-----------|-------------|----------------------------|--------------|-----------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | 9 Potential | Inside | C Outside | > Decreasing | ⇒ Stable | Increasing |
| O Positive | | | | | | | |
| Negative X | | × | | × | | | 1 |

4.2.2 - Underground transport infrastructure

Previous answer Cycle 2 (30/07/2011):

Not relevant

| Relevant | X Not relevant |
|---|----------------|
| 4.2.3 - Air transport infrastructure Previous answer Cycle 2 (30/07/2011): Not relevant | |
| Relevant | X Not relevant |
| 4.2.4 - Marine transport infrastructure Previous answer Cycle 2 (30/07/2011): Relevant, Negative, Potential, Inside | |
| Relevant | X Not relevant |
| 4.2.5 - Effects arising from use of transportation infrastrue Previous answer Cycle 2 (30/07/2011): Not relevant | cture |

Relevant

× Not relevant

4.2.6 - Please comment as necessary on how the factors selected as relevant in 4.2 are affecting the property either negatively or positively

4.3. Services Infrastructures

4.3.1 - Water infrastructure

- Previous answer Cycle 2 (30/07/2011):
 - Relevant, Negative, Potential, Outside

| X Relevant | | | ١ | lot relevant | | | |
|------------|-----------|-------------|--------|--------------|-----------------|---------------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | 9 Potential | Inside | C Outside | > Decreasing | ⇒ Stable | Increasing |
| O Positive | | | | | | | |
| Negative X | | × | | × | | \rightarrow | |

4.3.2 - Renewable energy facilities

- Previous answer Cycle 2 (30/07/2011):
 - Not relevant

| X Relevant | | | Not relevant | | | |
|-------------|---------------------|----------------------------|--------------|-----------------|----------|------------|
| Impa | act | Origin | | Trend of impact | | |
| Impact 4 Ci | current 9 Potential | Inside | Cutside | Secreasing | ⇒ Stable | Increasing |
| Positive X | × | × | | | | 1 |
| Negative | | | | | | |

4.3.3 - Non-renewable energy facilities

- Previous answer Cycle 2 (30/07/2011):
 - Not relevant

× Not relevant

4.3.4 - Localised utilities

Previous answer Cycle 2 (30/07/2011):

Not relevant

Relevant

Relevant

× Not relevant

4.3.5 - Major linear utilities

Previous answer Cycle 2 (30/07/2011):

Not relevant

× Not relevant

4.3.6 - Please comment as necessary on how the factors selected as relevant in 4.3 are affecting the property either negatively or

positively

Renewable energy like Solar is helping to power anti-poaching camps.

4.4. Pollution

4.4.1 - Pollution of marine waters

- Previous answer Cycle 2 (30/07/2011):
 - Not relevant

| Relevant | X Not relevant |
|--|---|
| 4.4.2 - Ground water pollution Previous answer Cycle 2 (30/07/2011): Not relevant | |
| Relevant | X Not relevant |
| 4.4.3 - Surface water pollution Previous answer Cycle 2 (30/07/2011): Not relevant | |
| Relevant | X Not relevant |
| 4.4.4 - Air pollutionPrevious answer Cycle 2 (30/07/2011):Not relevant | |
| Relevant | X Not relevant |
| 4.4.5 - Solid wastePrevious answer Cycle 2 (30/07/2011):Not relevant | |
| Relevant | X Not relevant |
| 4.4.6 - Input of excess energy Previous answer Cycle 2 (30/07/2011): Not relevant | |
| Relevant | X Not relevant |
| 4.4.7 - Please comment as necessary on how the factors | selected as relevant in 4.4 are affecting the property either negatively or |

positively

4.5. Biological resource use/modification

4.5.1 - Fishing/collecting aquatic resources

4 Current

Potential

- Previous answer Cycle 2 (30/07/2011):
 - Not relevant

🥙 Outside

Decreasing

Inside

O Positive

Impact

Increasing

→ Stable

| Negative X | × | × | × | \rightarrow | |
|------------|---|---|---|---------------|--|
| | | | | | |

4.5.4 - Livestock farming/Grazing of domesticated animals

Previous answer Cycle 2 (30/07/2011):

• Relevant, Negative, Current, Outside

| X Relevant | | | | Not relevant | | | |
|------------|-----------|-----------|----------------------------|--------------|-----------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | Potential | Inside | Cutside | > Decreasing | ⇒ Stable | Increasing |
| O Positive | | | | | | | |
| Negative X | × | | | × | N | | |

4.5.5 - Crop production

- Previous answer Cycle 2 (30/07/2011):
 - Relevant, Negative, Potential, Outside

| X Relevant | vant | | | | | | |
|------------|-----------|-------------|----------------------------|---------|-----------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | 9 Potential | Inside | Cutside | > Decreasing | ⇒ Stable | Increasing |
| Positive | | | | | | | |
| Negative X | | × | | × | | → | |

4.5.6 - Commercial wild plant collection

- Previous answer Cycle 2 (30/07/2011):
 - Not relevant

| Relevant | X Not relevant |
|---|----------------|
| 4.5.7 - Subsistence wild plant collection Previous answer Cycle 2 (30/07/2011): Relevant, Negative, Potential, Inside | |
| Relevant | X Not relevant |
| 4.5.8 - Commercial hunting Previous answer Cycle 2 (30/07/2011): Not relevant | |
| Relevant | X Not relevant |
| 4.5.9 - Subsistence hunting Previous answer Cycle 2 (30/07/2011): Not relevant | |
| Relevant | X Not relevant |
| 4.5.10 - Forestry/Wood production Previous answer Cycle 2 (30/07/2011): Not relevant | |

Relevant

× Not relevant

4.5.11 - Please comment as necessary on how the factors selected as relevant in 4.5 are affecting the property either negatively or positively

Agricultural activities outside the heritage property have potential negative impact. Similarly grazing by livestock is negatively affecting the grasslands of the heritage property.

4.6. Physical resource extraction

4.6.1 - Mining

| Previous answer Cycle 2 (30/07/2011): |
|---------------------------------------|
| Not relevant |

Relevant

× Not relevant

4.6.2 - Quarrying

Previous answer Cycle 2 (30/07/2011):

| Not relevant | |
|---|---|
| Relevant | X Not relevant |
| 4.6.3 - Oil and gasPrevious answer Cycle 2 (30/07/2011):Not relevant | |
| Relevant | X Not relevant |
| 4.6.4 - Water (extraction) Previous answer Cycle 2 (30/07/2011): Not relevant | |
| Relevant | X Not relevant |
| 4.6.5 - Please comment as necessary on how the factors s positively | selected as relevant in 4.6 are affecting the property either negatively or |
| 4.7. Local conditions affecting physical fabric | |
| 4.7.1 - WindPrevious answer Cycle 2 (30/07/2011):Not relevant | |
| Relevant | X Not relevant |
| 4.7.2 - Relative humidityPrevious answer Cycle 2 (30/07/2011):Not relevant | |
| Relevant | X Not relevant |
| 4.7.3 - Temperature Previous answer Cycle 2 (30/07/2011): Not relevant | |
| Relevant | X Not relevant |
| 4.7.4 - Radiation/Light Previous answer Cycle 2 (30/07/2011): Not relevant | |
| Relevant | X Not relevant |
| 4.7.5 - DustPrevious answer Cycle 2 (30/07/2011):Not relevant | |
| Relevant | X Not relevant |
| 4.7.6 - Water (rain/water table)Previous answer Cycle 2 (30/07/2011):● Not relevant | |
| Relevant | X Not relevant |
| 4.7.7 - PestsPrevious answer Cycle 2 (30/07/2011):Not relevant | |
| Relevant | X Not relevant |
| 4.7.8 - Micro-organismsPrevious answer Cycle 2 (30/07/2011):Not relevant | |
| Relevant | X Not relevant |

4.7.9 - Please comment as necessary on how the factors selected as relevant in 4.7 are affecting the property either negatively or positively

4.8. Social/Cultural uses of heritage

4.8.1 - Ritual/Spiritual/Religious and associative uses

- Previous answer Cycle 2 (30/07/2011):
 - Not relevant

Relevant

× Not relevant

4.8.2 - Society's valuing of heritage

- Previous answer Cycle 2 (30/07/2011):
 - Relevant, Negative, Potential, Outside

| X Relevant | | | | Not relevant | | | |
|------------|-----------|-------------|----------------------------|--------------|-----------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | 9 Potential | Inside | C Outside | > Decreasing | ⇒ Stable | Increasing |
| O Positive | | | | | | | |
| Negative X | × | | | × | N | | |

4.8.3 - Indigenous hunting, gathering and collecting

Previous answer Cycle 2 (30/07/2011):

• Relevant, Negative, Potential, Inside

| X Relevant | | | | Not relevant | | | |
|------------|-----------|-------------|----------------------------|--------------|---------------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | 9 Potential | Inside | C Outside | Solution Decreasing | ⇒ Stable | Increasing |
| O Positive | | | | | | | |
| Negative X | × | | | × | N | | |

4.8.4 - Changes in traditional ways of life and knowledge system

Previous answer Cycle 2 (30/07/2011):

Not relevant

Relevant

× Not relevant

4.8.5 - Identity, social cohesion, changes in local population and community

Previous answer Cycle 2 (30/07/2011):

Relevant, Positive, Potential, Outside

| X Relevant | | | | Not relevant | | | | |
|--------------|-----------|-----------|--------|--------------|---------------------|----------|------------|--|
| | Impact | | Origin | | Trend of impact | | | |
| Impact | 4 Current | Potential | Inside | Cutside | Solution Decreasing | ⇒ Stable | Increasing | |
| O Positive X | | × | | × | | | | |
| Negative | | | | | | | | |

4.8.6 - Impacts of tourism/Visitation/Recreation

Previous answer Cycle 2 (30/07/2011):

Relevant, Positive, Potential, Outside

| X Relevant | | | | Not relevant | | | |
|--------------|-----------|-------------|----------------------------|--------------|-----------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | 9 Potential | Inside | C Outside | > Decreasing | ⇒ Stable | Increasing |
| O Positive X | × | × | | × | | | |
| Negative | | | | | | | |

4.8.7 - Please comment as necessary on how the factors selected as relevant in 4.8 are affecting the property either negatively or positively

There is gradual increase of vendors outside the Park/Property. The tourism related infrastructure like resorts and hotels, homestay etc. are coming up and numbers are increasing. These activities are supporting in sustainable livelihoods of fringe area people as well as outsiders, tour operators and people involved in allied activities.

4.9. Other human activities

4.9.1 - Illegal activities

- Previous answer Cycle 2 (30/07/2011):
 - Not relevant

| × Relevant | | | I | Not relevant | | | |
|------------|-----------|-----------|----------------------------|--------------|-----------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | Potential | Inside | Cutside | > Decreasing | ⇒ Stable | Increasing |
| O Positive | | | | | | | |
| Negative X | × | | | × | N | | |

4.9.2 - Deliberate destruction of heritage

Previous answer Cycle 2 (30/07/2011): • Not relevant

| Relevant | X Not relevant |
|---|----------------|
| 4.9.3 - Military training | |
| Previous answer Cycle 2 (30/07/2011): • Not relevant | |
| Relevant | X Not relevant |
| 4.9.4 - War | |
| Previous answer Cycle 2 (30/07/2011): • Not relevant | |
| Relevant | X Not relevant |
| 4.9.5 - Terrorism | |
| Previous answer Cycle 2 (30/07/2011): • Not relevant | |
| Relevant | X Not relevant |
| 4.9.6 - Civil unrest | |
| Previous answer Cycle 2 (30/07/2011): • Relevant, Negative, Potential, Outside | |
| Relevant | X Not relevant |

4.9.7 - Please comment as necessary on how the factors selected as relevant in 4.9 are affecting the property either negatively or positively

There is significant decline in the number of incidents of poaching and illegal logging due to relentless efforts by the site management. There has been no incident of rhino poaching since 2016. The civil unrest which placed the site on the List of World Heritage in Danger in the past has transformed into political process and democratically elected representatives in the region. Local community members are involved with the site's conservation and protection in various ways.

4.10. Climate change and severe weather events

4.10.1 - Storms

Previous answer Cycle 2 (30/07/2011): • Not relevant

Relevant

× Not relevant

4.10.2 - Flooding

- Previous answer Cycle 2 (30/07/2011):
 - Relevant, Negative, Current, Outside

X Relevant

Not relevant

| | Impact | | Origin | | Trend of impact | | |
|---|-----------|-------------|----------------|--------------|-----------------|----------|------------|
| Impact | 4 Current | 9 Potential | Inside | Cutside | > Decreasing | ⇒ Stable | Increasing |
| O Positive | | | | | | | |
| Negative X | × | | × | | | → | |
| 4.10.3 - Drought Previous answer Cycle 2 (30/07/ • Not relevant | 2011): | | | | | | |
| Relevant | | | × Not relevant | | | | |
| 4.10.4 - Desertification Previous answer Cycle 2 (30/07/ • Not relevant | 2011): | | | | | | |
| Relevant | | | X Not relevant | | | | |
| 4.10.5 - Changes to oceani Previous answer Cycle 2 (30/07/ • Not relevant | | | | | | | |
| Relevant | | | × Not relevant | | | | |
| 4.10.6 - Temperature change Previous answer Cycle 2 (30/07/ • Not relevant | - | | | | | | |
| Relevant | | | X Not relevant | | | | |
| 4.10.7 - Other climate chan Previous answer Cycle 2 (30/07/ • Relevant, Negative, Poter | 2011): | | | | | | |
| X Relevant | | | I | Not relevant | | | |
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | Potential | Inside | Cutside | > Decreasing | ⇒ Stable | Increasing |
| O Positive | | | | | | | |

4.10.8 - Please comment as necessary on how the factors selected as relevant in 4.10 are affecting the property either negatively or positively

The impacts of climate change are already visible in the form of erratic weather patterns. Frequency and intensity of occurrence of natural disasters such as floods, erosion and drying up of wetlands may have an impact on the site. Further rise in temperatures and changing patterns of precipitation and storm activity can drive native plants and animals out of areas where they have lived for centuries.

4.11. Sudden ecological or geological events

4.11.1 - Volcanic eruption

Previous answer Cycle 2 (30/07/2011):

Not relevant

Negative X

Relevant

× Not relevant

4.11.2 - Earthquake

Previous answer Cycle 2 (30/07/2011):

Not relevant

| X Relevant | | | | Not relevant | | | |
|------------|-----------|-----------|--------|--------------|-----------------|---------------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | Potential | Inside | C Outside | > Decreasing | ⇒ Stable | Increasing |
| O Positive | | | | | | | |
| Negative X | × | | × | | | \rightarrow | |

4.11.3 - Tsunami/Tidal wave

Previous answer Cycle 2 (30/07/2011):

Not relevant

| Relevant | | | × Not relevan | X Not relevant | | | | | |
|--|-----------|-----------|---------------|----------------|-----------------|----------|------------|--|--|
| 4.11.4 - Avalanche/Landslid Previous answer Cycle 2 (30/07/2 • Not relevant | | | | | | | | | |
| Relevant | | | X Not relevan | t | | | | | |
| 4.11.5 - Erosion and siltatic Previous answer Cycle 2 (30/07/2 Relevant, Negative, Curre | 2011): | | | | | | | | |
| X Relevant | | | | Not relevant | | | | | |
| | Impact | | Origin | | Trend of impact | | | | |
| Impact | 4 Current | Potential | Inside | C Outside | > Decreasing | ⇒ Stable | Increasing | | |
| O Positive | | | | | | | | | |
| Negative X | × | | × | | | | 1 | | |
| 4.11.6 - Fire (wildfire) Previous answer Cycle 2 (30/07/2 Not relevant | 2011): | | | | | | | | |
| Relevant | | | × Not relevan | | | | | | |

4.11.7 - Please comment as necessary on how the factors selected as relevant in 4.11 are affecting the property either negatively or positively

Every year during rainy season June to September, erosion take place in river banks along with siltation & deposition of sand, gravels, boulders at places. Bank erosion has very much adverse impacts by way of uprooting trees along river banks and causing loss of forest and wildlife habitat areas.

4.12. Invasive/alien species or hyper-abundant species

4.12.1 - Translocated species

- Previous answer Cycle 2 (30/07/2011):
 - Not relevant

| Relevant | | | X Not relevant | | | | |
|--|-----------|--------------------|----------------|--------------|---------------------|----------|------------|
| 4.12.2 - Invasive/Alien terre Previous answer Cycle 2 (30/07/2 • Relevant, Negative, Curre | 2011): | | | | | | |
| X Relevant | | | 1 | Not relevant | | | |
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | 9 Potential | Inside | Cutside | Solution Decreasing | ⇒ Stable | Increasing |
| O Positive | | | | | | | |
| Negative X | × | | × | | | | 1 |
| 4.12.3 - Invasive/Alien fresh Previous answer Cycle 2 (30/07/2 • Not relevant | • | i | | | | | |
| Relevant | | | X Not relevant | | | | |
| 4.12.4 - Invasive/Alien mari Previous answer Cycle 2 (30/07/2 • Not relevant | - | | | | | | |
| Relevant | | | × Not relevant | | | | |

4.12.5 - Hyper-abundant species

Previous answer Cycle 2 (30/07/2011):

• Relevant, Negative, Current, Inside

| X Relevant | | | 1 | Not relevant | | | |
|------------|---------|-----------|--------|--------------|-----------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | Gurrent | Potential | Inside | Coutside | > Decreasing | ⇒ Stable | Increasing |
| O Positive | | | | | | | |
| Negative X | × | | × | | | | 1 |

4.12.6 - Modified genetic material

Previous answer Cycle 2 (30/07/2011):

Not relevant

Relevant X Not relevant

4.12.7 - Please comment as necessary on how the factors selected as relevant in 4.12 are affecting the property either negatively or positively

Invasive weeds like Chromolaena spp., Eupatorium spp., Mikania, Ferns, Leea spp. and trees like Simul and Oxi are invading the existing grasslands and affecting adversely the grassland habitats.

4.13. Management and institutional factors

4.13.1 - Management system/Management plan

| X Relevant | | | 1 | Not relevant | | | |
|--------------|-----------|-----------|--------|--------------|-----------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | Potential | Inside | Cutside | > Decreasing | ⇒ Stable | Increasing |
| O Positive X | × | | × | | | | 1 |
| Negative | | | | | | | |

4.13.2 - Legal framework

| X Relevant | | | | Not relevant | | | |
|--------------|-----------|--------------------|--------|--------------|---------------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | 9 Potential | Inside | C Outside | Solution Decreasing | ⇒ Stable | Increasing |
| O Positive X | × | | × | | | | |
| Negative | | | | | | | |

4.13.3 - Governance

| × Relevant | | | | Not relevant | | | |
|--------------|-----------|-------------|----------------------------|--------------|-----------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | 9 Potential | Inside | C Outside | > Decreasing | ⇒ Stable | Increasing |
| O Positive X | × | | × | × | | | |
| Negative | | | | | | | |

4.13.4 - Management activities

Previous answer Cycle 2 (30/07/2011):

Relevant, Positive, Current, Inside

| X Relevant | | | | Not relevant | | | |
|--------------|-----------|-----------|----------------------------|--------------|-----------------|----------|------------|
| | Impact | | Origin | | Trend of impact | | |
| Impact | 4 Current | Potential | Inside | Cutside | > Decreasing | ⇒ Stable | Increasing |
| O Positive X | × | | × | | | | |
| Negative | | | | | | | |

4.13.5 - Financial resources

| × | Relevant |
|-----|----------|
| ~ ~ | |

| Impact Origin Trend of impact | |
|--|------------|
| | |
| Impact I Current I Potential I Inside Inside Decreasing Stable | Increasing |
| O Positive X X X | 1 |
| Negative | |

4.13.6 - Human resources

| X Relevant | | | | Not relevant | | | | | | | |
|--------------|-----------|---------------|--------|--------------|---------------------|----------|------------|--|--|--|--|
| | Impact | Impact Origin | | | Trend of impact | | | | | | |
| Impact | 4 Current | 9 Potential | Inside | C Outside | Solution Decreasing | ⇒ Stable | Increasing | | | | |
| O Positive X | × | | × | × | | | 1 | | | | |
| | | | | | | | | | | | |

4.13.7 - Low impact research/monitoring activities

- Previous answer Cycle 2 (30/07/2011):
 - Relevant, Positive, Current, Inside

| × Relevant | | | 1 | Not relevant | | | | | |
|------------|-----------|-------------|----------------------------|--------------|---------------------|----------|------------|--|--|
| | Impact | | | | Trend of impact | | | | |
| Impact | 4 Current | 9 Potential | Inside | Cutside | Solution Decreasing | ⇒ Stable | Increasing | | |
| Positive X | × | | × | | | | / | | |
| Negative | | | | | | | | | |

4.13.8 - High impact research/monitoring activities

- Previous answer Cycle 2 (30/07/2011):
 - Not relevant

Relevant

× Not relevant

4.13.9 - Please comment as necessary on how the factors selected as relevant in 4.13 are affecting the property either negatively or positively

Preparation of Tiger Conservation Plan for Manas Tiger Reserve has improved management and governance. Regular capacity building of frontline staff is carried out to improve human resource. Financial resources are gradually increasing with continuous support from government schemes and non government support. NGOs and research scholars are actively participating in research and conservation activities of the heritage site.

4.14. Other factor(s)

4.14.1 - Other factor(s)

4.15. Factors Summary Table

4.15.1 - Factors Summary Table

| Name | Impact | | | Origin | | Trend |
|--|--------|--|---|--------|---|----------|
| 4.1 Buildings and Development | | | | | | |
| 4.1.5 Interpretative and visitation facilities | ٢ | | 9 | | Ċ | |
| | | | | | | |
| 4.2 Transportation Infrastructure | | | | | | |
| 4.2.1 Ground transport infrastructure | | | | | | |
| | | | 9 | | ۴ | |
| 4.3 Services Infrastructures | | | | | | |
| 4.3.1 Water infrastructure | | | | | | |
| | 0 | | 9 | | Ċ | → |
| 4.3.2 Renewable energy facilities | ٢ | | 9 | ٢ | | |
| | | | | | | |

| 4.5 Biological resource use/modification | | | | | | | | | | |
|--|---|---|---|---|---|----------|--|--|--|--|
| 4.5.3 Land conversion | | | | | | | | | | |
| | 9 | 4 | 9 | | Ċ | → | | | | |
| 4.5.4 Livestock farming/Grazing of domesticated animals | | | | | | | | | | |
| | 9 | 4 | | | Ċ | \$ | | | | |
| 4.5.5 Crop production | | | | | | | | | | |
| | 9 | | 9 | | Ċ | → | | | | |
| 4.8 Social/Cultural uses of heritage | | | | | | | | | | |
| 4.8.2 Society's valuing of heritage | | | | | | | | | | |
| | 9 | 4 | | | Ċ | \$ | | | | |
| 4.8.3 Indigenous hunting, gathering and collecting | | | | | | | | | | |
| | 9 | 9 | | | Ċ | \$ | | | | |
| 4.8.5 Identity, social cohesion, changes in local population and community | ٢ | | 9 | | Ċ | | | | | |
| | | | | | | | | | | |
| 4.8.6 Impacts of tourism/Visitation/Recreation | ٢ | 9 | 9 | | Ċ | | | | | |
| | | | | | | | | | | |
| 4.9 Other human activities | | | | | | | | | | |
| 4.9.1 Illegal activities | | | | | | | | | | |
| | 9 | 9 | | | Ċ | \$ | | | | |
| 4.10 Climate change and severe weather events | | | | | | | | | | |
| 4.10.2 Flooding | | | | | | | | | | |
| | 9 | 9 | | ٢ | | → | | | | |
| 4.10.7 Other climate change impacts | | | | | | | | | | |
| | 9 | | 9 | | Ċ | | | | | |
| 4.11 Sudden ecological or geological events | | | | | | | | | | |
| 4.11.2 Earthquake | | | | | | | | | | |
| | 0 | 4 | | ۲ | | → | | | | |
| 4.11.5 Erosion and siltation/Deposition | | | | | | | | | | |
| | 0 | 4 | | ٢ | | | | | | |
| 4.12 Invasive/alien species or hyper-abundant species | | | | | | | | | | |
| 4.12.2 Invasive/Alien terrestrial species | | | | | | | | | | |
| | 9 | 9 | | ۹ | | | | | | |
| 4.12.5 Hyper-abundant species | | | | | | | | | | |
| | 9 | 9 | | ٩ | | | | | | |
| 4.13 Management and institutional factors | | | | | | | | | | |
| 4.13.1 Management system/Management plan | ٢ | 9 | | ٢ | | | | | | |
| | | | | | | | | | | |
| 4.13.2 Legal framework | ٢ | 9 | | ٢ | | | | | | |
| | | | | | | | | | | |
| 4.13.3 Governance | ٢ | 9 | | ٩ | Ċ | | | | | |
| | | | | | | | | | | |
| 4.13.4 Management activities | ٢ | 9 | | ٢ | | | | | | |
| | | | | | | | | | | |

| 4.13.5 Financial re | 3.5 Financial resources | | | | | 4 | ۹ | | 1 |
|---------------------|---------------------------|---------------|------------|-------------|---------------------------|-------|---------|----|---|
| | | | | | | | | | |
| 4.13.6 Human reso | ources | | | | ٢ | 9 | ٢ | Ċ | 1 |
| | | | | | | | | | |
| 4.13.7 Low impact | research/monitoring activ | vities | | | ٢ | 9 | ۲ | | |
| | | | | | | | | | |
| Legend | 4 Current | Potential | Q Negative | O Positive | Insid | de la | C Outsi | de | |
| Legenu | Junen | T F Olerillar | Ureyalive | V F USILIVE | | | GOUISI | | |

4.16. Assessment of current and potential positive and negative factors

4.16.1 - Assessment of current and potential negative and positive factors

4.1 Buildings and Development

| Name | | Impact | : | | Origin | Trend | |
|------------|---|--------|---|---|--------|-------|---|
| 4.1.5 Inte | erpretative and visitation facilities | ٢ | | 4 | | Ċ | 1 |
| | | | | | | | |
| Spatial s | cale - Area affected by the factor | | | | | | |
| × | Restricted | | | | | | |
| ^ | | | | | | | |
| | Localised | | | | | | |
| | Extensive | | | | | | |
| | Widespread | | | | | | |
| Tempora | I scale - Occurence of the impact | | | | | | |
| × | One off or rare | | | | | | |
| | Intermittent or sporadic | | | | | | |
| | Frequent | | | | | | |
| | On-going | | | | | | |
| Impact - | Impact on the attributes | | | | | | |
| × | Insignificant | | | | | | |
| | Minor | | | | | | |
| | Significant | | | | | | |
| | Major | | | | | | |
| Manager | nent response - Capacity of management to respond | | | | | | |
| | High capacity | | | | | | |
| × | Medium capacity | | | | | | |
| | Low capacity | | | | | | |
| | No capacity and / or resources | | | | | | |
| Trend - I | Developement over the last 6 years | | | | | | |
| | Decreasing | | | | | | |
| × | Static | | | | | | |
| | Increasing | | | | | | |
| | | | | | | | |

4.2 Transportation Infrastructure

| Name | | Impact | | Origin | | Trend |
|-------------|---|--------|---|--------|---|-------|
| 4.2.1 Grou | nd transport infrastructure | | | | | |
| | | 0 | 9 | | Ċ | |
| Spotial cor | le. Area offented by the factor | | | | | |
| Spatial Sca | le - Area affected by the factor | | | | | |
| | Restricted | | | | | |
| × | Localised | | | | | |
| | Extensive | | | | | |
| | Widespread | | | | | |
| Temporal | scale - Occurence of the impact | | | | | |
| | One off or rare | | | | | |
| х | Intermittent or sporadic | | | | | |
| | Frequent | | | | | |
| | On-going | | | | | |
| Impact - Im | pact on the attributes | | | | | |
| | Insignificant | | | | | |
| | Minor | | | | | |
| х | Significant | | | | | |
| | Major | | | | | |
| Manageme | nt response - Capacity of management to respond | | | | | |
| | High capacity | | | | | |
| × | Medium capacity | | | | | |
| | Low capacity | | | | | |
| | No capacity and / or resources | | | | | |
| Trend - De | velopement over the last 6 years | | | | | |
| | Decreasing | | | | | |
| | Static | | | | | |
| × | Increasing | | | | | |
| | | | | | | |

4.3 Services Infrastructures

| Name | | Impact | | Origin | | Trend |
|------------|-----------------------------------|--------|---|--------|---|----------|
| 4.3.1 Wate | r infrastructure | | | | | |
| | | 0 | 9 | | Ċ | → |
| Spatial sc | ale - Area affected by the factor | | | | | |
| | Restricted | | | | | |
| × | Localised | | | | | |
| | Extensive | | | | | |
| | Widespread | | | | | |
| Temporal | scale - Occurence of the impact | | | | | |
| | One off or rare | | | | | |
| × | Intermittent or sporadic | | | | | |
| | Frequent | | | | | |

| | On-going |
|-------------|---|
| Impact - Im | pact on the attributes |
| | Insignificant |
| × | Minor |
| | Significant |
| | Major |
| Manageme | nt response - Capacity of management to respond |
| | High capacity |
| | Medium capacity |
| × | Low capacity |
| | No capacity and / or resources |
| Trend - Dev | velopement over the last 6 years |
| | Decreasing |
| × | Static |
| | Increasing |

| Name | Impact | | Origin | Trend |
|-----------------------------------|--------|---|--------|-------|
| 4.3.2 Renewable energy facilities | ٢ | 9 | ۲ | 1 |

| Spatial sca | Ile - Area affected by the factor |
|-------------|--|
| | Restricted |
| × | Localised |
| | Extensive |
| | Widespread |
| Temporal s | scale - Occurence of the impact |
| | One off or rare |
| × | Intermittent or sporadic |
| | Frequent |
| | On-going |
| Impact - Im | pact on the attributes |
| | Insignificant |
| | Minor |
| × | Significant |
| | Major |
| Manageme | Int response - Capacity of management to respond |
| | High capacity |
| × | Medium capacity |
| | Low capacity |
| | No capacity and / or resources |
| Trend - Dev | velopement over the last 6 years |
| | Decreasing |
| | Static |

4.5 Biological resource use/modification

| Name | | | Impact | | | Origin | | |
|-------------|--|--------|--------|---|--------|--------|----------|--|
| 4.5.3 Land | conversion | | | | | | | |
| | | 0 | 9 | 9 | | Ċ | → | |
| Spatial sca | ale - Area affected by the factor | | | | | | | |
| × | Restricted | | | | | | | |
| | Localised | | | | | | | |
| | Extensive | | | | | | | |
| | Widespread | | | | | | | |
| Temporal s | scale - Occurence of the impact | | | | | | | |
| | One off or rare | | | | | | | |
| × | Intermittent or sporadic | | | | | | | |
| | Frequent | | | | | | | |
| | On-going | | | | | | | |
| Impact - Im | npact on the attributes | | | | | | | |
| | Insignificant | | | | | | | |
| | Minor | | | | | | | |
| × | Significant | | | | | | | |
| | Major | | | | | | | |
| Manageme | ent response - Capacity of management to respond | | | | | | | |
| | High capacity | | | | | | | |
| × | Medium capacity | | | | | | | |
| | Low capacity | | | | | | | |
| | No capacity and / or resources | | | | | | | |
| Trend - De | velopement over the last 6 years | | | | | | | |
| | Decreasing | | | | | | | |
| | Static | | | | | | | |
| × | Increasing | | | | | | | |
| Nama - | | Income | | | Origin | | Terret | |
| Name | tock farming/Grazing of domesticated animals | Impact | | | Origin | | Trend | |

| Spatial sca | ale - Area affected by the factor |
|-------------|-----------------------------------|
| | Restricted |
| × | Localised |
| | Extensive |
| | Widespread |
| Temporal | scale - Occurence of the impact |
| | One off or rare |
| | Intermittent or sporadic |

C

9 9

| × | Frequent |
|-------------|---|
| | On-going |
| Impact - Im | apact on the attributes |
| | Insignificant |
| | Minor |
| × | Significant |
| | Major |
| Manageme | nt response - Capacity of management to respond |
| | High capacity |
| × | Medium capacity |
| | Low capacity |
| | No capacity and / or resources |
| Trend - Dev | velopement over the last 6 years |
| | Decreasing |
| × | Static |
| | Increasing |
| | |

| Name | Impact | Origin | | Trend | |
|-----------------------|--------|--------|--|-------|---------------|
| 4.5.5 Crop production | | | | | |
| | 0 | 9 | | Ċ | \rightarrow |

| Spatial scale - Area affected b | v the tactor |
|---------------------------------|--------------|
| | |

| Spatial sca | ale - Area affected by the factor |
|-------------|--|
| | Restricted |
| × | Localised |
| | Extensive |
| | Widespread |
| Temporal | scale - Occurence of the impact |
| | One off or rare |
| × | Intermittent or sporadic |
| | Frequent |
| | On-going |
| Impact - In | npact on the attributes |
| | Insignificant |
| × | Minor |
| | Significant |
| | Major |
| Manageme | ent response - Capacity of management to respond |
| | High capacity |
| × | Medium capacity |
| | Low capacity |
| | No capacity and / or resources |
| Trend - De | velopement over the last 6 years |
| | Decreasing |
| | |

| × | Static |
|---|------------|
| | Increasing |

4.8 Social/Cultural uses of heritage

| Name | | Impos | | Origin | | Trend |
|------------|--|-------|----|--------|---|----------|
| | rty's valuing of heritage | Impac | | Origin | | Trend |
| 4.6.2 5001 | ty's valuing or neritage | | | | | |
| | | 0 | 9 | | Ċ | N |
| Spatial sc | Ile - Area affected by the factor | | | | | |
| | Restricted | | | | | |
| × | Localised | | | | | |
| | Extensive | | | | | |
| | | | | | | |
| | Widespread | | | | | |
| Temporal | scale - Occurence of the impact | | | | | |
| | One off or rare | | | | | |
| × | Intermittent or sporadic | | | | | |
| | Frequent | | | | | |
| | On-going | | | | | |
| Impact - I | npact on the attributes | | | | | |
| | Insignificant | | | | | |
| × | Minor | | | | | |
| | Significant | | | | | |
| | Major | | | | | |
| Managem | ent response - Capacity of management to respond | | | | | |
| | High capacity | | | | | |
| × | Medium capacity | | | | | |
| | Low capacity | | | | | |
| | No capacity and / or resources | | | | | |
| Trend - D | velopement over the last 6 years | | | | | |
| | Decreasing | | | | | |
| ~ | | | | | | |
| × | Static | | | | | |
| | Increasing | | | | | |
| Name | | Impac | | Origin | | Trend |
| | enous hunting, gathering and collecting | mpac | | ongin | | riend |
| | | 0 | 4 | | Ċ | |
| | | - | -1 | | G | 3 |
| Spatial sc | Ile - Area affected by the factor | | | | | |
| × | Restricted | | | | | |
| | | | | | | |

Extensive Widespread Temporal scale - Occurence of the impact

One off or rare

×

| | Intermittent or sporadic | | | | | |
|--------------------------|---|--------|---|--------|---|-------|
| | Frequent | | | | | |
| | On-going | | | | | |
| Impact - In | npact on the attributes | | | | | |
| × | Insignificant | | | | | |
| | Minor | | | | | |
| | Significant | | | | | |
| | Major | | | | | |
| Manageme | ent response - Capacity of management to respond | | | | | |
| × | High capacity | | | | | |
| | Medium capacity | | | | | |
| | Low capacity | | | | | |
| | No capacity and / or resources | | | | | |
| | | | | | | |
| Trend - De | evelopement over the last 6 years | | | | | |
| Trend - De | Decreasing | | | | | |
| _ | | | | | | |
| _ | Decreasing | | | | | |
| _ | Decreasing Static | | | | | |
| _ | Decreasing Static | Impact | | Origin | | Trend |
| × | Decreasing Static | Impact | q | Origin | G | Trend |
| × | Decreasing Static Increasing | | ٩ | Origin | | Trend |
| X Name 4.8.5 Ident | Decreasing Static Increasing ity, social cohesion, changes in local population and community | | 4 | Origin | | Trend |
| X Name 4.8.5 Ident | Decreasing Static Increasing tity, social cohesion, changes in local population and community ale - Area affected by the factor | | ٩ | Origin | | Trend |
| X Name 4.8.5 Ident | Decreasing Static Increasing ity, social cohesion, changes in local population and community | | 4 | Origin | | Trend |
| X Name 4.8.5 Ident | Decreasing Static Increasing tity, social cohesion, changes in local population and community ale - Area affected by the factor | | 9 | Origin | | Trend |
| X Name 4.8.5 Ident | Decreasing Static Increasing ity, social cohesion, changes in local population and community ale - Area affected by the factor Restricted | | 4 | Origin | | Trend |

Temporal scale - Occurence of the impact

| Temporal s | scale - Occurence of the impact |
|-------------|--|
| | One off or rare |
| | Intermittent or sporadic |
| | Frequent |
| × | On-going |
| Impact - Im | apact on the attributes |
| | Insignificant |
| | Minor |
| × | Significant |
| | Major |
| Manageme | Int response - Capacity of management to respond |
| | High capacity |
| × | Medium capacity |
| | Low capacity |
| | No capacity and / or resources |

Trend - Developement over the last 6 years

| | Decreasing |
|---|------------|
| | Static |
| × | Increasing |

| Name | | Impact | | | Origin | | Trend |
|-------------|---|--------|---|---|--------|---|-------|
| 4.8.6 Impac | 4.8.6 Impacts of tourism/Visitation/Recreation | | 9 | 9 | | ٢ | 1 |
| | | | | | | | |
| Spatial sca | Spatial scale - Area affected by the factor | | | | | | |
| | Restricted | | | | | | |
| | Localised | | | | | | |
| × | Extensive | | | | | | |
| | Widespread | | | | | | |
| Temporal s | cale - Occurence of the impact | | | | | | |
| | One off or rare | | | | | | |
| | Intermittent or sporadic | | | | | | |
| × | Frequent | | | | | | |
| | On-going | | | | | | |
| Impact - Im | pact on the attributes | | | | | | |
| | Insignificant | | | | | | |
| | Minor | | | | | | |
| × | Significant | | | | | | |
| | Major | | | | | | |
| Manageme | nt response - Capacity of management to respond | | | | | | |
| | High capacity | | | | | | |
| × | Medium capacity | | | | | | |
| | Low capacity | | | | | | |
| | No capacity and / or resources | | | | | | |
| Trend - Dev | velopement over the last 6 years | | | | | | |
| | Decreasing | | | | | | |
| | Static | | | | | | |
| × | Increasing | | | | | | |

4.9 Other human activities

| Name | | Impact | ł | | Origin | | Trend | | |
|--------------|---|--------|---|--|--------|---|----------|--|--|
| 4.9.1 Illega | 4.9.1 Illegal activities | | | | | | | | |
| | | 0 | 9 | | | ۴ | N | | |
| Spatial sc | Spatial scale - Area affected by the factor | | | | | | | | |
| × | Restricted | | | | | | | | |
| | Localised | | | | | | | | |
| | Extensive | | | | | | | | |
| | Widespread | | | | | | | | |
| Temporal | Temporal scale - Occurence of the impact | | | | | | | | |

| | One off or rare |
|-------------|---|
| × | Intermittent or sporadic |
| | Frequent |
| | On-going |
| Impact - Im | npact on the attributes |
| | Insignificant |
| × | Minor |
| | Significant |
| | Major |
| Manageme | ent response - Capacity of management to respond |
| × | High capacity |
| | Medium capacity |
| | Low capacity |
| | |
| | No capacity and / or resources |
| Trend - De | No capacity and / or resources velopement over the last 6 years |
| Trend - De | |
| | velopement over the last 6 years |

4.10 Climate change and severe weather events

| Name | | Impact | | Origin | Trend |
|-------------|---|--------|---|--------|----------|
| 4.10.2 Floo | ling | | | | |
| | | 9 | 9 | ۲ | → |
| Spatial sca | e - Area affected by the factor | | | | |
| | Restricted | | | | |
| × | Localised | | | | |
| ~ | Extensive | | | | |
| | Widespread | | | | |
| Tomporal | cale - Occurence of the impact | | | | |
| Temporars | | | | | |
| | One off or rare | | | | |
| × | Intermittent or sporadic | | | | |
| | Frequent | | | | |
| | On-going | | | | |
| Impact - Im | pact on the attributes | | | | |
| | Insignificant | | | | |
| × | Minor | | | | |
| | Significant | | | | |
| | Major | | | | |
| Manageme | nt response - Capacity of management to respond | | | | |
| | High capacity | | | | |
| | Medium capacity | | | | |
| × | Low capacity | | | | |

No capacity and / or resources

Trend - Developement over the last 6 years

| | Decreasing |
|---|------------|
| | Static |
| × | Increasing |

| Name | Impact | | Origin | | Trend |
|-------------------------------------|--------|---|--------|---|-------|
| 4.10.7 Other climate change impacts | | | | | |
| | 0 | 9 | | Ċ | |
| | | | | | |

Spatial scale - Area affected by the factor

| × | Restricted |
|-------------|---|
| | Localised |
| | Extensive |
| | Widespread |
| Temporal s | scale - Occurence of the impact |
| × | One off or rare |
| | Intermittent or sporadic |
| | Frequent |
| | On-going |
| Impact - Im | pact on the attributes |
| × | Insignificant |
| | Minor |
| | Significant |
| | Major |
| Manageme | nt response - Capacity of management to respond |
| | High capacity |
| | Medium capacity |
| × | Low capacity |
| | No capacity and / or resources |
| Trend - Dev | velopement over the last 6 years |
| | Decreasing |
| × | Static |
| | Increasing |

4.11 Sudden ecological or geological events

| Name | Impact | | Origin | Trend |
|---|--------|---|--------|----------|
| 4.11.2 Earthquake | | | | |
| | 0 | 9 | ٢ | → |
| Special code. Area offered by the feature | | | | |
| Spatial scale - Area affected by the factor | | | | |
| Restricted | | | | |
| Localised | | | | |

| × | Extensive |
|-------------|---|
| | Widespread |
| Temporal s | scale - Occurence of the impact |
| × | One off or rare |
| | Intermittent or sporadic |
| | Frequent |
| | On-going |
| Impact - Im | pact on the attributes |
| | Insignificant |
| | Minor |
| | Significant |
| × | Major |
| Manageme | nt response - Capacity of management to respond |
| | High capacity |
| | Medium capacity |
| × | Low capacity |
| | No capacity and / or resources |
| Trend - Dev | velopement over the last 6 years |
| | Decreasing |
| × | Static |
| | Increasing |

Name

| 4.11.5 Erosion and siltation/Deposition | 4.11.5 | Erosion and | siltation/De | position |
|---|--------|-------------|--------------|----------|
|---|--------|-------------|--------------|----------|

Spatial scale - Area affected by the factor

| | Restricted |
|-------------|---|
| × | Localised |
| | Extensive |
| | Widespread |
| Temporal s | scale - Occurence of the impact |
| | One off or rare |
| × | Intermittent or sporadic |
| | Frequent |
| | On-going |
| Impact - Im | pact on the attributes |
| | Insignificant |
| | Minor |
| × | Significant |
| | Major |
| | nt response - Capacity of management to respond |
| | |

High capacity

Trend

Origin

٢

Impact

•

| | Medium capacity |
|------------|----------------------------------|
| × | Low capacity |
| | No capacity and / or resources |
| Trend - De | velopement over the last 6 years |
| | Decreasing |
| | Static |
| × | Increasing |

4.12 Invasive/alien species or hyper-abundant species

| Name | | Impact | | Origin | Trend |
|-------------|--|--------|---|--------|-------|
| 4.12.2 Inva | 4.12.2 Invasive/Alien terrestrial species | | | | |
| | | 0 | 4 | ۹ | |
| Spatial co | ale - Area affected by the factor | | | | |
| Spatial SC | Restricted | | | | |
| | Localised | | | | |
| ~ | | | | | |
| × | Extensive | | | | |
| T | Widespread | | | | |
| Temporal | scale - Occurence of the impact | | | | |
| | One off or rare | | | | |
| | Intermittent or sporadic | | | | |
| × | Frequent | | | | |
| | On-going | | | | |
| Impact - Ir | npact on the attributes | | | | |
| | Insignificant | | | | |
| | Minor | | | | |
| × | Significant | | | | |
| | Major | | | | |
| Managem | ent response - Capacity of management to respond | | | | |
| | High capacity | | | | |
| × | Medium capacity | | | | |
| | Low capacity | | | | |
| | No capacity and / or resources | | | | |
| Trend - De | velopement over the last 6 years | | | | |
| | Decreasing | | | | |
| | Static | | | | |
| × | Increasing | | | | |
| | | | | | |
| Name | | Impact | | Origin | Trend |
| 4.12.5 Hyp | er-abundant species | | | | |
| | | 0 | 4 | ٢ | 1 |
| Spatial sc | ale - Area affected by the factor | | | | |
| × | Restricted | | | | |
| | | | | | |

| | Localised |
|-------------|--|
| | Extensive |
| | Widespread |
| Temporal s | scale - Occurence of the impact |
| × | One off or rare |
| | Intermittent or sporadic |
| | Frequent |
| | On-going |
| Impact - Im | npact on the attributes |
| × | Insignificant |
| | Minor |
| | Significant |
| | Major |
| Manageme | ent response - Capacity of management to respond |
| | High capacity |
| | Medium capacity |
| × | Low capacity |
| | No capacity and / or resources |
| Trend - Dev | velopement over the last 6 years |
| × | Decreasing |
| | Static |
| | Increasing |
| | |

4.13 Management and institutional factors

| Name | | Impact | | Origin | Trend | |
|-------------|---------------------------------------|--------|---|--------|-------|--|
| 4.13.1 Ma | 3.1 Management system/Management plan | | ۲ | 1 | | |
| | | | | | | |
| Spatial sc | ale - Area affected by the factor | | | | | |
| | Restricted | | | | | |
| | Localised | | | | | |
| | Extensive | | | | | |
| × | Widespread | | | | | |
| Temporal | scale - Occurence of the impact | | | | | |
| | One off or rare | | | | | |
| | Intermittent or sporadic | | | | | |
| | Frequent | | | | | |
| × | On-going | | | | | |
| Impact - II | npact on the attributes | | | | | |
| | Insignificant | | | | | |
| | Minor | | | | | |
| | Significant | | | | | |
| x | Major | | | | | |

Management response - Capacity of management to respond

| × | High capacity |
|-------------|----------------------------------|
| | Medium capacity |
| | Low capacity |
| | No capacity and / or resources |
| Trend - Dev | velopement over the last 6 years |
| | Decreasing |
| | Static |
| × | Increasing |

| Name | Impact | Impact | | | Trend |
|------------------------|--------|--------|--|---|-------|
| 4.13.2 Legal framework | ٢ | 9 | | ٢ | 1 |

| Spatial sca | le - Area affected by the factor | | | | | | | |
|-------------|---|--------|---|--|--------|---|-------|--|
| | Restricted | | | | | | | |
| | Localised | | | | | | | |
| | Extensive | | | | | | | |
| × | Widespread | | | | | | | |
| Temporal s | Temporal scale - Occurence of the impact | | | | | | | |
| | One off or rare | | | | | | | |
| | Intermittent or sporadic | | | | | | | |
| | Frequent | | | | | | | |
| × | On-going | | | | | | | |
| Impact - Im | pact on the attributes | | | | | | | |
| | Insignificant | | | | | | | |
| | Minor | | | | | | | |
| | Significant | | | | | | | |
| × | Major | | | | | | | |
| Manageme | nt response - Capacity of management to respond | | | | | | | |
| × | High capacity | | | | | | | |
| | Medium capacity | | | | | | | |
| | Low capacity | | | | | | | |
| | No capacity and / or resources | | | | | | | |
| Trend - Dev | velopement over the last 6 years | | | | | | | |
| | Decreasing | | | | | | | |
| | Static | | | | | | | |
| × | Increasing | | | | | | | |
| | | _ | | | | _ | | |
| Name | | Impact | ~ | | Origin | | Trend | |

| Name | Impact | : | Origin | | Trend |
|---|--------|---|--------|---|-------|
| 4.13.3 Governance | ٢ | 9 | ٢ | Ċ | 1 |
| | | | | | |
| | | | | | |
| • ··· • • • • • · · · · · · · · | | | | | |
| Spatial scale - Area affected by the factor | | | | | |

| | Restricted |
|-------------|--|
| | Localised |
| × | Extensive |
| | Widespread |
| Temporal | scale - Occurence of the impact |
| | One off or rare |
| | Intermittent or sporadic |
| | Frequent |
| × | On-going |
| Impact - In | npact on the attributes |
| | Insignificant |
| | Minor |
| × | Significant |
| | Major |
| Managem | ent response - Capacity of management to respond |
| × | High capacity |
| | Medium capacity |
| | Low capacity |
| | No capacity and / or resources |
| Trend - De | evelopement over the last 6 years |
| | Decreasing |
| | Static |
| × | Increasing |

| Name | Impact | | Impact | | Origin | | Trend |
|------------------------------|--------|---|--------|---|--------|---|-------|
| 4.13.4 Management activities | 0 | 9 | | ٢ | | 1 | |

| Spatial sca | le - Area affected by the factor |
|-------------|----------------------------------|
| | Restricted |
| | Localised |
| | Extensive |
| × | Widespread |
| Temporal s | icale - Occurence of the impact |
| | One off or rare |
| | Intermittent or sporadic |
| | Frequent |
| × | On-going |
| Impact - Im | pact on the attributes |
| | Insignificant |
| | Minor |
| | Significant |
| × | Major |

Management response - Capacity of management to respond

| × | High capacity |
|-------------|----------------------------------|
| | Medium capacity |
| | Low capacity |
| | No capacity and / or resources |
| Trend - Dev | velopement over the last 6 years |
| | Decreasing |
| | Static |
| × | Increasing |

| Name | Impact | | Origin | | Trend | |
|----------------------------|--------|---|--------|---|-------|--|
| 4.13.5 Financial resources | ٢ | 9 | | ۲ | | |
| | | | | | | |

Spatial scale - Area affected by the factor

| Spatial sca | le - Area affected by the factor |
|-------------|---|
| | Restricted |
| | Localised |
| × | Extensive |
| | Widespread |
| Temporal s | scale - Occurence of the impact |
| | One off or rare |
| | Intermittent or sporadic |
| | Frequent |
| × | On-going |
| Impact - Im | pact on the attributes |
| | Insignificant |
| | Minor |
| × | Significant |
| | Major |
| Manageme | nt response - Capacity of management to respond |
| | High capacity |
| × | Medium capacity |
| | Low capacity |
| | No capacity and / or resources |
| Trend - Dev | velopement over the last 6 years |
| | Decreasing |
| | Static |
| × | Increasing |
| | |

| Name | Impact | : | Origin | | Trend |
|---|--------|---|--------|---|-------|
| 4.13.6 Human resources | ٢ | 4 | ۲ | Ċ | 1 |
| | | | | | |
| | | | | | |
| Spatial scale - Area affected by the factor | | | | | |

| | Restricted |
|-------------|---|
| | Localised |
| × | Extensive |
| | Widespread |
| Temporal s | cale - Occurence of the impact |
| | One off or rare |
| | Intermittent or sporadic |
| | Frequent |
| × | On-going |
| Impact - Im | pact on the attributes |
| | Insignificant |
| | Minor |
| × | Significant |
| | Major |
| Manageme | nt response - Capacity of management to respond |
| | High capacity |
| × | Medium capacity |
| | Low capacity |
| | No capacity and / or resources |
| Trend - Dev | relopement over the last 6 years |
| | Decreasing |
| | Static |
| × | Increasing |

| Name | Impact | | Origin | Trend |
|--|--------|--|--------|-------|
| 4.13.7 Low impact research/monitoring activities | | | ۲ | |
| | | | | |

| Spatial sca | le - Area affected by the factor |
|-------------|----------------------------------|
| | Restricted |
| × | Localised |
| | Extensive |
| | Widespread |
| Temporal s | scale - Occurence of the impact |
| | One off or rare |
| | Intermittent or sporadic |
| | Frequent |
| × | On-going |
| Impact - Im | pact on the attributes |
| | Insignificant |
| | Minor |
| × | Significant |
| | Major |

| Manageme | Int response - Capacity of management to respond |
|------------|--|
| | High capacity |
| × | Medium capacity |
| | Low capacity |
| | No capacity and / or resources |
| Trend - De | velopement over the last 6 years |
| | Decreasing |
| | Static |
| × | Increasing |

4.17. Serial inscriptions (national or transnational)

4.17.1 - If your property is a serial inscription (national or transnational) please identify which components of the property are impacted by each factor

4.18. Prediction of the state of conservation at next cycle of Periodic Reporting.

4.18.1 - Please predict what the state of conservation of each attribute will be approximately 6 years from now (at the time of the next cycle of Periodic Reporting)

| | Attribute | Preserved | Compromised | Seriously compromised | Lost |
|----------|--|-----------|-------------|-----------------------|------|
| 4.18.1.1 | Wilderness area of exceptional natural beauty | × | | | |
| 4.18.1.2 | Dynamic ecological processes supporting a rich diversity of ecosystems | × | | | |
| 4.18.1.3 | High plant and animal diversity | × | | | |
| 4.18.1.4 | Threatened species of mammals | × | | | |
| 4.18.1.5 | Threatened species of birds | × | | | |

5. Protection and Management of the Property

5.1. Boundaries and Buffer Zones

5.1.1 - Are the boundaries of the World Heritage property adequate to maintain the property's Outstanding Universal Value? The boundaries do not limit the ability to maintain the property's Outstanding Universal Value but they could be improved

5.1.2 - Are the boundaries of the World Heritage property known and recognised?

The boundaries are known by both the management authority and local communities/landowners

5.1.3 - Are the buffer zone(s) of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The buffer zones do not limit the ability to maintain the property's Outstanding Universal Value but they could be improved

5.1.4 - Are the boundaries of the buffer zones known and recognised?

The buffer zones of the World Heritage property are known and recognised by the management authority but are not known by local communities/landowners

5.1.5 - Comments, conclusions and/or recommendations related to boundaries and buffer zones of the World Heritage property

The boundary of the World Heritage Property is well defined but the buffer zone inot clearly known to local communities. There is sufficient buffer zone on the west, north and east sides of the World Heritage Property. However, there is no buffer zone/area on the southern side of the World Heritage Property.

5.2. Protective Measures

5.2.1 - Protective designation (legal, regulatory, contractual, planning, institutional and/or traditional).

The area was originally declared a reserve forest as early as 1907 and received sanctuary status in 1928. In 1973 it was given added protection when it was designated also as a Tiger Reserve in 1973 under Project Tiger. The overall legislative authority is contained in the Wildlife Protection Act of 1972 - a national legislation of the Government of India, - which is administered by the Assam Forest Department.

Source: Periodic Reporting Cycle 2

5.2.2 - Please list any legislation and other measures (regulatory -including spatial planning- contractual, institutional or traditional) not included in 5.2.1 and indicate the category

1990 / Manas National Park / Govt. of Assam Notification No. FRW.55/86/64, dt. 7/9/1990 / 2007 /

5.2.3 - Is the legal framework (i.e. legislation and/or regulation including spatial planning) adequate for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

The legal framework for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property provides an adequate basis for effective management and protection

5.2.4 - Is the legal framework (i.e. legislation and/or regulation) adequate in the buffer zone for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

An adequate legal framework in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists but there are some deficiencies in implementation

5.2.5 - Is the legal framework (i.e. legislation and/or regulation) in the broader setting of the World Heritage property adequate for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

An adequate legal framework exists for the broader setting of the World Heritage property, but there are some deficiencies in implementation which undermine the maintenance of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the property

5.2.6 - Can the legal framework (i.e. legislation and/or regulation) be enforced?

There is adequate capacity/resources to enforce legislation and/or regulation in the World Heritage property

5.2.7 - Please provide a short summary of how the legislation, including spatial planning and other regulation, works in practice

There are designated Field Director, Dy. Director, ACF, Rangers and other frontline staff to carry out enforcement of the laws. The protected site is well demarcated and divided into Ranges, Beats and Anti Poaching camps. These are connected by wireless network system and equipped with arms for wildlife personnel. Monitoring through cooperation between forest department, police forces, civil administration is carried out as required.

5.2.8 - Comments, conclusions and/or recommendations about the information related to the measures taken to protect the World Heritage property

5.3. Management System/Management Plan

5.3.1 - Please check the box which most closely match the character of the governance and management system of the property Public management system at provincial/regional level

If 'Other', please specify

5.3.2 - Management System: Please indicate which of the various management tools listed below are used to help protect the property.

| A statutory Management Plan or zoning plan for the property. |
|---|
| Other forms of statutory or non-statutory plans (e.g. strategic plans) |
| Traditional ways of management recognised by local communities and other specific groups |
| Governance mechanisms that foster and respect traditional practices, knowledge and uses of the property |
| An integrated management plan combining World Heritage and any other designations |
| A management plan |
| An annual work plan or business plan |
| A disaster, climate or conflict risk management plan |
| A visitor/visitation management plan |
| An environmental management framework |
| An assessment of biological and cultural diversity and ecosystem services provided by the property |

5.3.3 - Please give a brief description of the management system currently in place at your property

There are designated Field Director, D. Director, ACF, Forest Rangers and other frontline for management of the site. The Annual Operation Plan are prepared every year and works/schemes are executed/implemented. The source of funding are- (i) CSS-Project Tiger (ii) CSS-Biosphere (iii) CSS-Project Elephant (iv) SOPD State/BTC (v) CAMPA Fund (vi) APFBC (vii) Fund from Powergrid for five years- a special fund supposed to get.

5.3.4 - Management Documents

Comment

Tiger Conservation Plan, Manas Tiger Reserve (2014-2024) is approved

5.3.5 - Has any use been made of the 2011 Recommendation on the Historic Urban Landscape in developing policies and best practices for the protection of this property?

The 2011 Recommendation on the Historic Urban Landscape is not relevant to this property

5.3.6 - If the Historic Urban Landscape Recommendation has been used at this property, please describe briefly what has been done.

5.3.7 - Has any use been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property?

No use has been made of the World Heritage Policy for Climate Change

5.3.8 - If the Climate Change policy has been used, please briefly describe what has been done along with any research on the impacts

of Climate Change on the property:

5.3.9 - Has any use been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property ? Some use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties

5.3.10 - If the Strategy for Reducing Risks from Disasters at World Heritage Properties has been used, please briefly describe what has been done

Disaster Management Plan as well as Human-Elephant Conflict Management Plan for Manas National Park have been prepared. Constant vigilance and preparedness to deal with/tackle the situation arising out of any disaster is taken by the authority of the World Heritage Property and attended/addressed accordingly. All plans and strategies are mentioned in detail in above Disaster Plan and Human-Elephant Conflict Management Plan.

5.3.11 - Rate the coordination between the various levels of administration (i.e. national/federal; regional/provincial/state;

local/municipal etc.) involved in the management of the World Heritage property

There is coordination between the range of administrative bodies involved in the management of the property, but it could be improved

5.3.12 - Is the management system/plan adequate to maintain the property's Outstanding Universal Value?

The management system/plan is fully adequate to maintain the property's Outstanding Universal Value

5.3.13 - Is the management system being implemented?

The management system is being fully implemented and monitored

5.3.14 - Is there an annual work/action plan and is it being implemented?

An annual work/action plan exists and many of its activities are being implemented

5.3.15 - Does the management system include formal mechanisms and procedures that ensure participation and contribution of the following groups, living within or near the World Heritage property and/or buffer zone in management decisions that maintain the Outstanding Universal Value of the property?

| | | Not applicable | No mechanisms for participation | Some participation | Direct participation | Transformative participation in all relevant decision processes |
|----------|--|-------------------|------------------------------------|--------------------|----------------------|---|
| 5.3.15.1 | Local communities | | | | × | |
| 5.3.15.2 | Local authorities | | | × | | |
| 5.3.15.3 | Landowners in the property and the buffer zone | × | | | | |
| 5.3.15.4 | Indigenous peoples | | | | × | |
| 5.3.15.5 | Women | | | | × | |
| 5.3.15.6 | Other specific groups | | | | × | |
| | If you selected, 'Other specific groups' please specify | NGOs | | | | |

5.3.16 - Please rate the cooperation/relationship between the World Heritage property managers/coordinators/staff and the following groups

| | | Not applicable | Non-existent | Poor | Fair | Good |
|-----------|---|----------------|--------------|------|------|------|
| 5.3.16.1 | Local communities | | | | | × |
| 5.3.16.2 | Local/Municipal authorities | | | | × | |
| 5.3.16.3 | Indigenous peoples | | | | | × |
| 5.3.16.4 | Landowners | | | × | | |
| 5.3.16.5 | Women | | | | × | |
| 5.3.16.6 | Youth/Children | | | | × | |
| 5.3.16.7 | Researchers | | | | | × |
| 5.3.16.8 | Local Visitors/Tourists | | | | | × |
| 5.3.16.9 | National/International tourists | | | | | × |
| 5.3.16.10 | Tourism Industry | | | | × | |
| 5.3.16.11 | Local businesses and industries | | | | × | |
| 5.3.16.12 | NGOs | | | | | × |
| 5.3.16.13 | Other specific groups | × | | | | |
| | If you selected 'Other specific groups', please specify | | | | | |

5.3.17 - Please rate the extent to which the management system of your property contributes towards achieving the objectives of the World Heritage Committee's Policy for the Integration of a Sustainable Development Perspective into the Processes of the World Heritage Convention

| | | Not applicable | No contribution | Limited | Significant | Full achievement |
|----------|--|-------------------|--------------------|---------|-------------|---------------------|
| 5.3.17.1 | The management system of the property contributes to gender equality | | | × | | |
| 5.3.17.2 | The management system of the property provides ecosystem services/benefits to the local community (e.g. fresh air, water, food, medicinal plants) | | | | × | |
| 5.3.17.3 | The management system of the property contributes to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status | | | | × | |
| 5.3.17.4 | The management system of the property integrates a human rights-based approach | | | | × | |
| 5.3.17.5 | The management system of the property contributes to fostering inclusive local economic development, and to enhancing livelihood | | | | × | |
| 5.3.17.6 | The management system of the property contributes to conflict prevention, including respect for cultural diversity within and around the World Heritage property | | | | × | |

5.3.18 - Please provide further details on the ratings of the management system given in the table above

The establishment of Eco Development Committees that comprise of representation from indigenous tribal communities contribute towards social inclusion and improving opportunities for all, irrespective of ethnicity and origin. The heritage site also through eco tourism, is a source of local economic development, and livelihood enhancement. The growth of sustainable tourism in the form of home stays, resorts, jungle jeep safari, local guide and other allied activities have improved the socio economic condition of indigenous communities around the heritage property and have reduced conflicts

5.3.19 - Comments, conclusions and/or recommendations related to the management system/plan

6. Financial and Human Resources

6.1. Funding

6.1.1 - If your funding sources do not exactly fit those shown, put the relevant amounts against the funding type that most closely represents your situation, and use the comment box below to provide more details.

| | | Project costs | Running costs |
|----------|--|---------------|---------------|
| 6.1.1.1 | Multilateral funding (GEF, World Bank, etc.) | 0 % | 0 % |
| 6.1.1.2 | Bilateral international funding | 0 % | 0 % |
| 6.1.1.3 | World Heritage Fund (International Assistance) | 0 % | 0 % |
| 6.1.1.4 | Contribution from other conventions and programmes | 0 % | 0 % |
| 6.1.1.5 | International donations (NGOs, foundations, etc.) | 0 % | 0 % |
| 6.1.1.6 | Governmental (national/federal) | 37 % | 79 % |
| 6.1.1.7 | Governmental (regional/provincial/state) | 5 % | 10 % |
| 6.1.1.8 | Governmental (local/municipal) | 58 % | 0 % |
| 6.1.1.9 | In-country donations (NGOs, foundations, etc.) | 0 % | 0 % |
| 6.1.1.10 | Individual visitor charges (e.g. entry, toilets, parking, camping fees, etc.) | 0 % | 11 % |
| 6.1.1.11 | Commercial activities (e.g. merchandising and catering, filming permit, concessions, etc.) | 0 % | 0 % |
| 6.1.1.12 | Other | 0 % | 0 % |
| | | Total 100 % | Total 100 % |

6.1.2 - Please comment here on any other aspects of funding sources not covered in the table above

6.1.3 - Is the current budget sufficient to manage the World Heritage property effectively? The available budget is acceptable but could be further improved to fully meet the management needs

6.1.4 - Are the existing sources of funding secure and likely to remain so?

The existing sources of funding are secure over the medium-term and planning is underway to secure funding over the long-term

6.1.5 - Comments, conclusion, and/or recommendations related to finance and infrastructure

6.1.6 - Estimate the distribution of men and women involved in the management, conservation, interpretation of the World Heritage properties and the extent to which they are drawn from local communities.

| | | From local communities % | From elsewhere % |
|---------|-----|--------------------------|------------------|
| 6.1.6.1 | Men | 52 % | 95 % |

| 6.1.6.2 | Women | 48 % | 5 % |
|---------|-------|-------------|-------------|
| | | Total 100 % | Total 100 % |

6.1.7 - Are available human resources adequate to manage the World Heritage property?

Human resources partly meet the management needs of the World Heritage property

6.1.8 - Considering the management needs of the World Heritage property, please rate the availability of professionals in the following disciplines

| Conservation | Good |
|--|------|
| Environmental sustainability | Fair |
| Community participation and inclusion | Fair |
| Risk preparedness | Fair |
| Capacity development and education | Fair |
| Administration | Good |
| Research and monitoring | Fair |
| Awareness raising and public information/communication | Fair |
| Marketing and promotion | Fair |
| Interpretation | Fair |
| Visitor management/tourism | Good |
| Enforcement (custodians, police) | Good |

6.1.9 - Please rate the availability of training opportunities for the management of the World Heritage property in the following disciplines

| Conservation | Good |
|--|------|
| Environmental sustainability | Good |
| Community participation and inclusion | Fair |
| Risk preparedness | Fair |
| Capacity development and education | Fair |
| Administration | Good |
| Research and monitoring | Fair |
| Awareness raising and public information/communication | Fair |
| Marketing and promotion | Fair |
| Interpretation | Fair |
| Visitor management/tourism | Fair |
| Enforcement (custodians, police) | Good |

6.1.10 - Has any use been made of the World Heritage Strategy for Capacity Building at the property? Some use has been made of the World Heritage Strategy for Capacity Building

6.1.11 - If the World Heritage Strategy for Capacity Building has been used, please briefly describe what has been done.

Capacity-building workshops on World Heritage OUVs, reporting and monitoring, conservation and management for frontline personnel, local communities and NGOs have been undertaken.

6.1.12 - Are there site-specific capacity building plans or programmes that develop local expertise and that contribute to the transfer of skills for the conservation and management of the World Heritage property?

A site-based capacity building plan or programme is in place and partially implemented; some technical skills are being transferred to those managing the property locally, but most technical work is carried out by external staff

6.1.13 - Comments, conclusions and/or recommendations related to human resources, expertise and training

7. Scientific Studies and Research Projects

7.1 - Is there adequate knowledge (scientific or traditional) about the values and attributes of the World Heritage property to support planning, management and decision-making to ensure that Outstanding Universal Value is maintained? Knowledge about the values and attributes of the World Heritage property is **acceptable** for most key areas but there are gaps

7.2 - Is there a planned programme of research at the property which is directed towards management needs and/or improving understanding of Outstanding Universal Value?

There is a **comprehensive**, **integrated programme** of research, which is relevant to management needs and/or improving understanding of Outstanding Universal Value

7.3 - Are results from research programmes publicly available and disseminated?

Research results are shared widely with active outreach to local communities and national and international audiences

7.4 - Comments, conclusions and/or recommendations related to scientific studies and research projects

8. Education, Information and Awareness Building

8.1 - Please rate the awareness and understanding of the existence and justification for inscription of the World Heritage property amongst the following groups

| Local communities | Fair |
|--|----------------|
| Local/municipal authorities | Fair |
| Indigenous peoples | Fair |
| Landowners | Not applicable |
| Women | Fair |
| Youth/children | Fair |
| Researchers | Good |
| Local visitors | Fair |
| National/international tourists | Good |
| Tourism industry | Good |
| Local businesses and industries | Fair |
| NGOs | Good |
| Other specific groups | Not applicable |
| If you selected 'Other specific groups', please describe | |

8.2 - Does the property have a heritage education programme(s) for children and/or youth, that can contribute to a better understanding of heritage, promote diversity and foster intercultural dialogue? There is a limited and ad hoc education and awareness programme for children and/or youth

8.3 - Who are the target audiences for education and awareness programmes at your property?

| Local communities |
|---------------------------------|
| Indigenous peoples |
| Women |
| Youth/children |
| Researchers |
| Local Visitors |
| National/international tourists |
| Tourism industry |
| Local businesses and industries |
| NGOs |

8.4 - Please rate the adequacy of the following visitor facilities and services at the World Heritage property for education, information, interpretation and awareness building

| Visitor centre | Not provided but needed |
|-------------------------------|-------------------------|
| Site museum | Not provided but needed |
| Information booths | Not provided but needed |
| Guided tours | Poor |
| Trails/routes | Poor |
| Printed information materials | Fair |

| Online (website, social media, etc.) | Fair |
|--|------------|
| Transportation facilities | Fair |
| Other | Not needed |
| If 'Other' is selected, please specify | |

8.5 - Comments, conclusions and/or recommendations related to education, information and awareness building

Regular educational and awareness building community outreach programs are carried out at the heritage site. With the help of NGOs like WWF, WTI, Aaranyak etc. capacity building and information sharing workshops are carried out for the frontline staff of the heritage site.

9. Visitor Management

9.1 - Please provide estimated annual visitor numbers (including national and international visitors) since the last Periodic Report

45143 / 42987 / 38072 / 36898 / 41173 /

9.2 - What information sources are used to collect visitor statistics?

Entry tickets and registries Accommodation establishments

Tourism industry

9.3 - What is the average length stay of a visitor to the World Heritage property?

Overnight stay

9.4 - Please provide the source of information

Reports from concerned Range Officers to the Field Director, Manas Tiger Project and records maintained.

9.5 - What is the approximate average daily visitor expenditure? (Please provide an estimated monetary figure in USD)

20/6/15/1.5/0/7/

9.6 - Please provide the source of information

Department Rate chart and Manas Development and Jeep Safari Association rate list.

9.7 - Does the management system/plan for the World Heritage property include a strategy with an action plan to manage visitors,

tourism activity and its derived economic, socio-cultural and environmental impacts?

There is a planned and effective strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property

9.8 - Please provide any comments relating to the answer provided above in question 9.7

The Manas World Heritage also being a tiger reserve has an approved Tiger Conservation Plan, which includes a planned strategy for tourism management including eco-tourism management and nature education.

9.9 - Is visitor use effectively managed to maintain the Outstanding Universal Value of the property?

Visitor use of the World Heritage property is effectively managed and does not impact its Outstanding Universal Value

9.10 - Is the effectiveness of tourism management regularly monitored?

Yes, through the UNESCO Tourism Management Assessment Tool

If a different system, please specify

9.11 - How does the tourism industry cooperate with the site management to improve visitor experiences and maintain the

Outstanding Universal Value of the World Heritage property?

There is good cooperation between those responsible for the World Heritage property and the tourism industry to present the Outstanding Universal Value and increase appreciation

9.12 - How well is the information on the Outstanding Universal Value of the property presented and interpreted?

The presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made

9.13 - At how many locations is the World Heritage emblem displayed at the property?

In many locations, but not easily visible to visitors

9.14 - How does visitor/tourism revenue (e.g. entry charges, permits) contribute to the management of the World Heritage property? Fees are collected and make a substantial contribution to the management of the World Heritage property

9.15 - Are there locally driven sustainable tourism initiatives?

Yes

If 'Yes', please specify

Homestays, ecotourism by local communities and Community-based Organisations

9.16 - Are the benefits of tourism shared with local communities?

Yes

If 'Yes', please specify

In the form of funding to Eco Development Committees

9.17 - Comments, conclusions and/or recommendations related to visitation/tourism/public use of the World Heritage property

Tourism is an important aspect of the Manas world heritage site. Tourism is promoted through eco-tourism and cooperation of local people through Eco-Development Committees. Apart from this other privately owned resorts, jeep safari and other tourist activities take place under the supervision of the site authorities.

10. Monitoring

10.1 - Is there a monitoring programme at the property directed towards management needs and/or towards improving the understanding of the Outstanding Universal Value?

There is a **comprehensive**, integrated programme of monitoring, which is relevant to management needs and/or improving understanding of the Outstanding Universal Value

10.2 - Is necessary information available in order to define key indicators for measuring the state of conservation and are they used in monitoring how the Outstanding Universal Value of the property is being maintained?

Information on the values of the World Heritage property is adequate and key indicators have been defined but monitoring of the status of indicators could be improved

10.3 - Are key indicators defined and in place for the following principal aspects of the property?

| | Extend of indicators | Not applicable | No indicators | Indicators have been defined but are not yet in use | Indicators are in place and in use since the last Periodic Reporting cycle |
|--------|--|-------------------|------------------|--|---|
| 10.3.1 | State of conservation | | | | × |
| 10.3.2 | Effectiveness of the management system | | | | × |
| 10.3.3 | Character of governance | | | × | |
| 10.3.4 | Appropriate synergy with other conservation designations | | × | | |
| 10.3.5 | Contribution to sustainable development | | | × | |
| 10.3.6 | Capacity development | | | × | |

10.4 - Please provide information on relevant key indicators adopted at the property

The periodic management effectiveness evaluation (MEE) report is used as an indicator for assessing the above important aspect of the property.

10.5 - Please rate the level of involvement in monitoring of the following groups:

| World Heritage managers/coordinators and staff | Good |
|---|----------------|
| Local/municipal authorities | Fair |
| Local communities | Fair |
| Indigenous peoples | Fair |
| Landowners | Not applicable |
| Women | Fair |
| Researchers | Good |
| Tourism industry | Good |
| Local businesses and industry | Fair |
| NGOs | Good |
| Other specific groups | Not applicable |
| If you selected 'Other specific groups', please specify | |

10.6 - Has the State Party implemented relevant recommendations arising from the World Heritage Committee?

Implementation is underway

10.7 - Please provide comments relevant to the implementation of recommendations from the World Heritage Committee.

In regards to implementation of recommendations from the World Heritage Committee, protection level of the site has been increased with new anti-poaching camps and mobile patrolling team. This has resulted into no rhino poaching since 2016. A proposal has been submitted to the BTC, Govt of Assam for eviction of illegal encroachment in Betbari area of the site. Grassland and habitat management programmes have been started in various parts of the site including under state CAMPA,CSS PT 2020-21. Site level transboundary meeting and agreements have been formulated. In addition to that translocation programmes, Eco Development committees, local community initiatives have ensured that the site's Outstanding Universal Value is intact

10.8 - Comments, conclusions and/or recommendations related to Monitoring

The monitoring of the heritage site is carried out using periodic management effectiveness evaluation (MEE) reports, regular action plans like Tiger Conservation

Plan, Disaster Management Plan etc. Moreover patrolling activities using M STrIPES patrolling, smart patrolling, boat and vehicular patrolling, research activities has helped in regular ground level monitoring of the heritage site.

11. Identification of Priority Management Needs

11.1 - Identification of Priority Management Needs

| 5.1 | Boundaries and Buffer Zones | |
|--------|---|---|
| 5.1.4 | The buffer zones of the World Heritage property are known and recognised by the management authority but are not known and recognized by local communities/landowners | |
| 5.2 | Protective Measures | |
| 5.2.4 | An adequate legal framework in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists but there are some deficiencies in implementation | × |
| 5.2.5 | An adequate legal framework exists for the broader setting of the World Heritage property and the buffer zone, but there are some deficiencies in implementation which undermine the maintenance of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the property | |
| 5.3 | Management System/Management Plan | |
| 5.3.7 | No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property | × |
| 5.3.9 | Some use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property | × |
| 5.3.11 | There is coordination between the range of administrative bodies involved in the management of the property, but it could be improved | × |
| 5.3.17 | • In a limited manner, the management system of the World Heritage property does contribute to gender equality | |
| 6.1 | Funding | |
| 6.1.3 | The available budget is acceptable but could be further improved to fully meet the management needs of the World Heritage property | × |
| 6.1.7 | Human resources partly meet the management needs of the World Heritage property | × |
| 6.1.10 | Some use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property | × |
| 6.1.12 | A site-based capacity building plan or programme is in place and partially implemented; some technical skills are being transferred to those managing the property locally, but most technical work is carried out by external staff | |
| 8 | Education, Information and Awareness Building | |
| 8.2 | There is a limited and ad hoc education and awareness programme for children and/or youth | × |
| 9 | Visitor Management | |
| 9.12 | The presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made | × |
| 10 | Monitoring | |
| 10.2 | Information on the values of the World Heritage property is adequate and key indicators have been defined but monitoring of the status of indicators could be improved | × |
| Pleas | e select 0 more issues. | |
| D Ple | ase save this question to reflect changes | |

12. Summary and Conclusions

12.1. Summary - Factors affecting the Property

12.1.1 - Summary - Factors affecting the Property

| 4.2 | Transportation | Transportation Infrastructure | | | | | | |
|-------|---------------------------------------|-------------------------------|--|--|---------|---|----|--|
| 4.2.1 | Ground transport infrastructure | Criteria ix, x | Impact assessments and rerouting of road projects | Regular consultation and ground-level monitoring | Ongoing | Forest Department, Highway Authority | NA | |
| 4.3 | Services Infras | Services Infrastructures | | | | | | |
| 4.3.1 | | Water infrastructu | e | | | | | |
| 4.5 | Biological reso | ource use/modificati | on | | | | | |

| 4.5.3 | Land conversion | Criteria ix, x | Strengthening protection and enforcement mechanism | d Ecological research and forest staff monitoring | Ongoing | Forest Department | NA | |
|-------------|--|-------------------------------|--|---|-----------------------------|---|----|--|
| 4.5.4 | Livestock farming/Grazing of domesticated animals | Criteria ix, x | Strengthening protection, increasing awareness | Forest staff monitoring | Ongoing | Forest Department, Local communities | NA | |
| 4.5.5 | | Crop produ | ction | | | | | |
| 4.8 | Social/Cultural | uses of heritage | | | | | | |
| 4.8.2 | | Society's valuing of heritage | | | | | | |
| 4.10 | Climate change | and severe weath | er events | | | | | |
| 4.10.2 | | Floor | ling | | | | | |
| 4.11 | Sudden ecologi | cal or geological e | vents | | | | | |
| 4.11.2 | Earthquake | Criteria vii, ix, x | Disaster management plan will be implemented. | | As per event occurrence. | Forest department, Civil administration | NA | |
| 4.11.5 | Erosion and siltation/Deposition | Criteria vii, ix, x | Preventing illegal logging, Creating embankments | Monitoring upstream-downstream water flow and river bank | n river Ongoing | Forest Department, Water resources Department | NA | |
| 4.12 | Invasive/alien species or hyper-abundant species | | | | | | | |
| 4.12.2 | Invasive/Alien terrestrial species | Criteria ix, x | Research on invasive species, Habitat management, Manual extraction, Regulated fire/burning regime | Continuous monitoring through research and physical observations. | Ongoing | Forest Department, NGOs and research agencies | NA | |
| Question no | t completed | | | | | | | |

12.2. Summary - Management Needs

12.2.1 - Summary - Management Needs

| 5.2 | Protective Measure | 95 | | | |
|-------|---|--|-------------------|---|---|
| | | Actions | Timeframe | Lead agency (and others involved) | More info / comment |
| 5.2.4 | An adequate legal framework in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists but there are some deficiencies in implementation | The National Park was extended in the west to include another Reserved Forest under common management with the property. An integrated Tiger Conservation Plan now governs the larger Tiger Reserve area which includes the property. | Done and ongoing. | Forest Department. | ΝΑ |
| 5.3 | Management Sys | stem/Management Plan | | | |
| 5.3.7 | No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property | Climate Change policy document will examined for use at the property through workshops and implementati of mitigating measures. | | Forest Department, Scientific institutions | The State of Assam has also formulated an Assam State Action Plan on Clima Change.Di |

| 5.3.9 | Some use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property | Disaster risk reduction is included in the property's Management Plan. Provisions of the World Heritage strategy document will be examined for use and implementation in the property. | Ongoing | | Water Resou | tment, Department of rces, Assam State lagement Authority | NA | |
|--------|---|---|--------------------|---------|----------------|--|-----------|----|
| 5.3.11 | There is coordination between the range of administrative bodies involved in the management of the property, but it could be improved | Greater synergy is established between the Forest Department, Civil administration and Police authorities for dealing with law and order matters and with the local Government line departments for socio-economic schemes. | Ongoing | | administration | tment, District n, Police Authorities, nent line departments | NA | |
| 6.1 | Funding | | | | | | | |
| 6.1.3 | The available budget is acceptable but could be further improved to fully meet the management needs of the World Heritage property | Additional funding is secured through the Tiger Reserve Conservation Plan and of Centrally Sponsored Schemes. | | Ongoing | | Forest Department, Natio Conservation Authority | nal Tiger | NA |
| 6.1.7 | Human resources partly meet the management needs of the World Heritage property | Proposal is envisaged for new recruitme frontline forest personnel to replace age retired staff. Supplementary patrolling st also engaged from the Assam Forest Pr Force. | ing and aff are | 5 years | | Forest Department | | NA |
| 6.1.10 | Some use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property | Capacity-building workshops and trainin been conducted for forest personnel, loc communities, civil society, teachers and of local schools with support from NGOs specialised institutions. | al students | Ongoing | | Forest Department, NGO institutions | s Other | NA |
| 8 | Education, Informati | on and Awareness Building | | | | | | |
| | limited and ad T hoc education se | nitiatives have been taken for Teacher raining Programmes and awareness chemes for children of local schools in roximity to the property. | Ongoing | | | est Department, NGOs Other tutions | r | NA |
| 9 | Visitor Management | | | | | | | |
| 9.12 | The presentation and interpretation of the Outstanding Universal Value of the property is acceptable | Proposal is envisaged for operationalising interpretation centre. More signages are pl appropriate locations for highlighting the O property. | anned at | 3 years | Fo | orest Department | | NA |
| | but improvements could be made | | | | | | | |

|--|

12.3. Conclusions on the State of Conservation of the Property

12.3.1 - Following the analysis undertaken for this report, what is the current state of Authenticity of the World Heritage property? Not applicable (sites inscribed exclusively under criteria vii to x (natural World Heritage properties)

12.3.2 - Following the analysis undertaken for this report, what is the current state of Integrity of the World Heritage property? The Integrity of the World Heritage property is **intact**

12.3.3 - Following the analysis undertaken for this report, what is the current state of the World Heritage property's Outstanding Universal Value?

The World Heritage property's Outstanding Universal Value has been maintained.

12.3.4 - What is the current state of the property's other values?

Other important cultural and/or natural values and the state of conservation of the World Heritage property are intact

12.3.5 - Comments. conclusions and/or recommendations related to the state of conservation of the property.

The Integrity and Outstanding Universal Value of the Manas Heritage Site has been preserved and kept intact. Due to efforts of the site authorities, the losses to the site in the past have been restored back. The Manas World Heritage Site has been awarded Conservation Excellence Award 2020 by the Global Tiger Forum recognizing its excellent conservation efforts.

13. Impact of World Heritage Status

13.1 - Please rate the impacts of World Heritage status of the property in relation to the following areas

| Conservation | Very positive |
|---|---------------|
| Research and monitoring | Very positive |
| Management effectiveness | Very positive |
| Quality of life for local communities and indigenous peoples | Positive |
| Recognition | Very positive |
| Education | Positive |
| Infrastructure development | Positive |
| Funding for the property | Positive |
| International cooperation | Positive |
| Political support for conservation | Very positive |
| Legal/Policy framework | Very positive |
| Advocacy | Positive |
| Institutional coordination | Positive |
| Security | Positive |
| Gender equality | No impact |
| Provision of ecosystem services/ benefits to local communities | Positive |
| Social inclusion and equity, and improvement of opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion, or economic or other status | No impact |
| Fostering inclusive local economic development and enhancing livelihood | Positive |
| Contributing to conflict prevention, including respect for cultural diversity within and around heritage properties | Positive |

If 'Other', please specify

13.2 - Comments, conclusions and/or recommendations related to World Heritage status and its impacts

The World Heritage status has played a key role in making Manas World Heritage site the centre for conservation related activities. It has given a global recognition to its rich heritage. It has promoted tourism and subsequently improved the socio economic condition of local people depending on the site's tourism. It has encouraged research and study on the flora and fauna found inside the heritage site.

14. Good Practice in the Implementation of the World Heritage Convention

14.1 - Example of good practice in World Heritage protection, identification, conservation or management at the property level

The Manas World Heritage Site has successfully protected and conserved its faunal diversity. Through a robust rhino translocation programme under Indian Rhino Vision (IRV) 2020, the number of rhinos in the site has increased from zero in 2001-02 to 45 in 2020-21. Through swamp deer translocation programme, its population increased to 99 in 2020-21. The Heritage Site increased the tiger population from 10 in 2010 to 30 in 2020. This has been achieved through regular use of M-STrIPES patrolling. Recognizing the efforts of the site in tripling the tiger population, Manas has been awarded Global Conservation Excellence Award 2020 by the Global Tiger Forum. Involvement of local communities in conservation and protection of the World Heritage property is also a good practice example in Manas. Support to local youth to establish ecotourism enterprise around the site has been a big success story. Encouragement of the site management authorities has also provided a key role for NGOs to contribute to conservation practice, research, monitoring and capacity-building activities for the site with mutually beneficial results.

14.2 - Define which topics are covered by this example of best practice at the property level

| Sustainable Development | | |
|-------------------------|--|--|
| Synergies | | |
| State of Conservation | | |
| Management | | |
| Governance | | |
| Capacity Building | | |

15. Assessment of the Periodic Reporting Exercise

15.1. Relevance of Periodic Reporting

15.1.1 - Has the Periodic Reporting process improved the understanding of the following?

| The World Heritage Convention | |
|--|--|
| The concept of Outstanding Universal Value | |
| The property's Outstanding Universal Value | |
| The concept of Integrity and/or Authenticity | |
| The property's Integrity and/or Authenticity | |
| Management effectiveness to maintain the Outstanding Universal Value | |
| Monitoring and reporting | |

15.1.2 - Please rate the follow-up to conclusions and recommendations from previous Periodic Reporting exercise by the following entities

| State Party | Good |
|--|------|
| Site Managers | Good |
| UNESCO World Heritage Centre | Fair |
| Advisory Bodies (ICOMOS, IUCN, ICCROM) | Fair |

15.2. Use of Data

15.2.1 - How do the authorities in charge of the property plan to use the data recorded from this cycle of Periodic Reporting?

Revision of priorities/strategies/policies for the protection, management and conservation of heritage
Update of management plans
Fundraising
Awareness raising
Advocacy

15.2.2 - Comments on use of data from the Cycle of Periodic Reporting

The data can be used for improving management and monitoring. It will be crucial in identifying the aspects that require improvement and taking priority action.

15.3. Timing and resources

15.3.1 - Entities involved in the filling out of this online questionnaire (tick as many boxes as applicable)

| Governmental institutions responsible for cultural and natural heritage | d natural heritage |
|---|--------------------|
|---|--------------------|

| Site Manager/Coordinator World Heritage property staff | |
|--|--|
| Non-Governmental Organizations | |
| External experts | |

15.3.2 - Has a gender balanced contribution and participation been considered in the filling out of this questionnaire? Gender balance has been **explicitly considered** in the process **but there are still deficiencies in the implementation**.

15.3.3 - Were you given adequate time (i.e. roughly ten months) to gather necessary information and to fill in this questionnaire? Yes

15.3.4 - Please estimate the time (working hours) needed to complete this questionnaire

315 / 140 / 49 /

15.3.5 - Did you mobilise any additional resources to fill out this questionnaire?

| | Additional resources | No | Yes |
|----------|--|----|-----|
| 15.3.5.1 | Human resources | | × |
| 15.3.5.2 | Financial resources for organizing consultation meetings/ training | × | |

15.4. Format and content of the Periodic Report

15.4.1 - How accessible was the information required to complete this questionnaire?

Most required information was accessible.

15.4.2 - Was the questionnaire easy to use and clear to understand?

| | | Very Difficult | Difficult | Easy | Very easy |
|----------|------------------------------|----------------|-----------|------|-----------|
| 15.4.2.1 | Ease of use of questionnaire | | | × | |
| 15.4.2.2 | Clarity of questions | | | × | |

15.4.3 - Please provide suggestions for improvement of the Periodic Reporting questionnaire

None

15.5. Training and Guidance

15.5.1 - Please rate the level of support in terms of training and guidance from the following entities in completing this questionnaire

| UNESCO World Heritage Centre | Good |
|--------------------------------------|----------------|
| UNESCO (other sectors/field offices) | Good |
| UNESCO National Commission | Not applicable |
| ICOMOS International | Not applicable |
| IUCN International | Fair |
| ICCROM international/regional | Not applicable |
| ICOMOS national/regional | Not applicable |
| IUCN national/regional | Not applicable |

15.5.2 - Please rate the level of support for completing the Periodic Reporting questionnaire from the following entities

| UNESCO World Heritage Centre | Good |
|---|----------------|
| State Party Representative (national Focal Point) | Good |
| UNESCO other sectors (e.g. field office) | Fair |
| National Commission for UNESCO | Not applicable |
| ICOMOS International | Not applicable |
| ICCROM International/regional | Not applicable |

| ICOMOS national/regional | Not applicable |
|--------------------------|----------------|
| IUCN national/regional | Not applicable |
| IUCN International | Not applicable |

15.5.3 - Were the online training resources prepared by the World Heritage Centre regarding Periodic Reporting adequate for you to complete this questionnaire? Yes

15.5.4 - If you found that the online training resources were not adequate, what changes would you like to see implemented? The online training resources were adequate.

15.6. Actions that will require formal consideration by the World Heritage Committee

15.6.1 - Summary of actions that will require formal consideration by the World Heritage Committee

No item were proposed for update

15.7. Comments, conclusions and/or recommendations related to the Assessment of the Periodic Reporting Exercise

15.7.1 - Comments, conclusions and/or recommendations related to the Assessment of the Periodic Reporting Exercise

15.7.2 - Thank you for having filled in all the questions. Please contact your National Focal Point for validation.