Shape

Description automatically generated with low confidence

**Add certification label**

(if the project is certified)

Chart

Description automatically generated

Shape

Description automatically generated with low confidence

**Assessment Report**

**Project Name: Click here to enter text.**

Shape

Description automatically generated with low confidence

**Add project sponsor logo**

(if applicable)

**Project Sponsor:** **Click here to enter text.**

**Add project image**

(resize to 14cm x 18cm)

**Report Author:** **Click here to enter text.**

**Report Date:** **Click here to enter text.**

**Cover page photo:** Insert description of image used on cover page

Graphical user interface, application, website

Description automatically generated

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|  |
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|  |
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|  |
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1. Assessment Details

|  |  |
| --- | --- |
| Project sponsor |  |
| Assessor(s) |  |
| Assessment objective |  |
| Assessment dates |  |
| Assessment report date |  |
| Prepared for |  |
| Limitations of the assessment |  |

1. Project Details

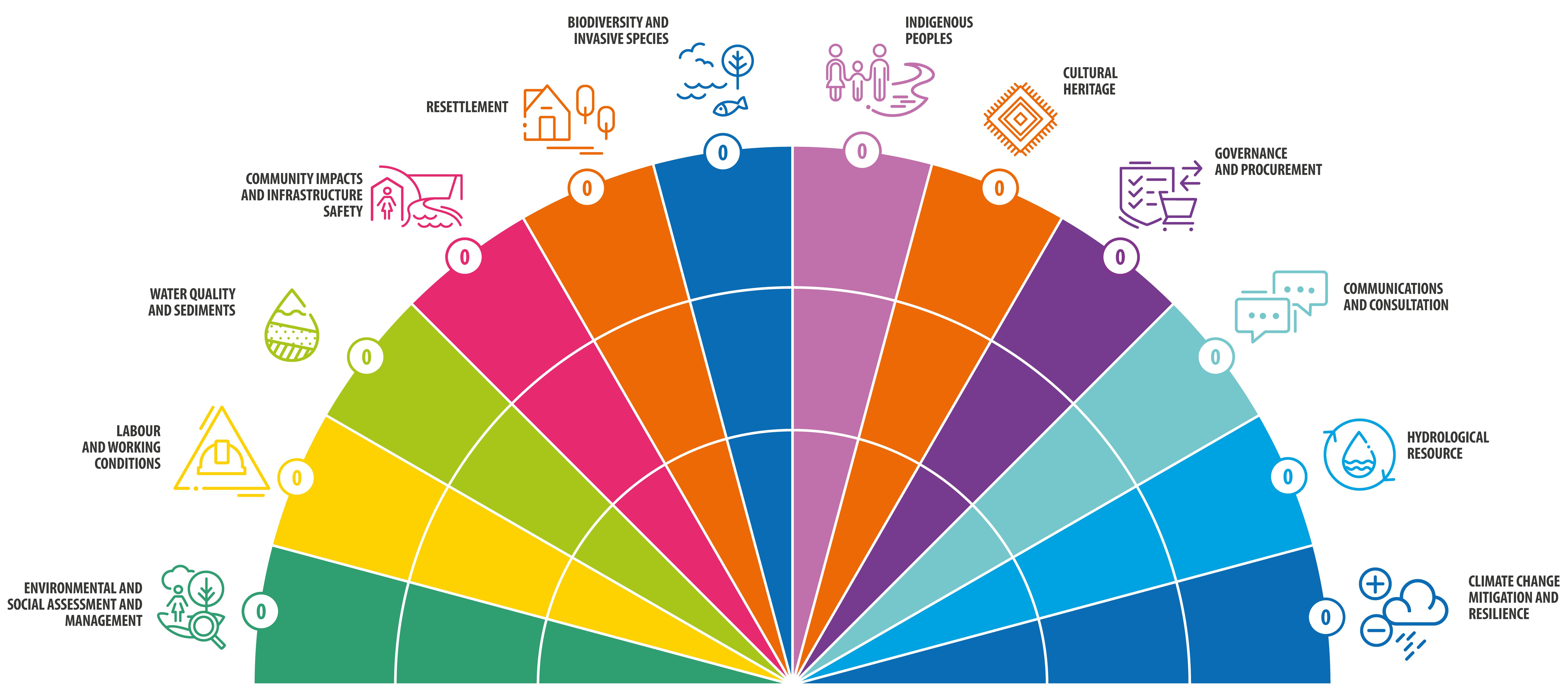
|  |  |
| --- | --- |
| Project name |  |
| Country |  |
| Location |  |
| Purpose |  |
| Developer / Owner |  |
| Financer(s) |  |
| Installed capacity (MW) |  |
| Construction start date (planned or actual) |  |
| Commercial operations date (planned or actual) |  |
| Annual average generation (GWh / year) |  |
| Associated infrastructure: road(s) (length) |  |
| Transmission lines and sub-stations (names, lengths and capacities) |  |
| Total cost (USD m) |  |
| Annual operating costs (USD m) |  |
| Project development cost not including transmission (USD m) |  |
| Transmission costs for project development (USD m) |  |
| Specific investment cost (USD m / MW) |  |
| Levelised energy cost (USD / kWh) |  |
| Dam type |  |
| Dam height (m) |  |
| Dam length at crest (m) |  |
| Units (number, type, MW) |  |
| Reservoir area at Full Supply Level (FSL) (km2) |  |
| Average net head at FSL (m) |  |
| Average flow (m3 / s) |  |
| Design flow (m3 / s) |  |
| Load factor |  |
| Number of physically displaced households |  |
| Power density (W / m2) |  |
| Emissions intensity (gCO2e / kWh) |  |
| Contacts / website |  |

A close up of a logo

Description automatically generated

Figure 1 – Map of dam site

1. Minimum Requirements diagram



1. Minimum Requirements

| List of significant gaps against Minimum Requirements | | Sections | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Environmental and Social Assessment and Management | 2. Labour and Working Conditions | 3. Water Quality and Sediments | 4. Community Impacts and Infrastructure Safety | 5. Resettlement | 6. Biodiversity and Invasive Species | 7. Indigenous Peoples | 8. Cultural Heritage | 9. Governance and Procurement | 10. Communications and Consultation | 11. Hydrological Resource | 12. Climate Change Mitigation and Resilience |
| 1. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 9. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NUMBER OF SIGNIFICANT GAPS BY SECTION: | |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL NUMBER OF SIGNIFICANT GAPS: | |  | | | | | | | | | | | |

1. Advanced Requirements

(Note to user: this section is optional if there are gaps against the Minimum Requirements)

|  | Sections | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1. Environmental and Social Assessment and Management | 2. Labour and Working Conditions | 3. Water Quality and Sediments | 4. Community Impacts and Infrastructure Safety | 5. Resettlement | 6. Biodiversity and Invasive Species | 7. Indigenous Peoples | 8. Cultural Heritage | 9. Governance and Procurement | 10. Communications and Consultation | 11. Hydrological Resource | 12. Climate Change Mitigation and Resilience |
| TOTAL NUMBER OF REQUIREMENTS | **12** | **3** | **7** | **14** | **3** | **5** | **5** | **5** | **11** | **15** | **13** | **10** |
| NUMBER OF REQUIREMENTS MET |  |  |  |  |  |  |  |  |  |  |  |  |
| PERCENTAGE OF REQUIREMENTS MET |  |  |  |  |  |  |  |  |  |  |  |  |
| PROPOSED CERTIFICATION LEVEL | Click here to enter text. | | | | | | | | | | | |

Note:

* A project must meet all Minimum Requirements on all relevant sections to achieve HS Certified label.
* To receive the HS Silver label, projects must meet at least 30% of the Advanced Requirements on each relevant section.
* To receive the HS Gold label, projects must meet at least 60% of the Advanced Requirements on each relevant section.

1. Environmental and Social Action Plan (ESAP)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Minimum Requirements** | | | | | | | |
| Section | Significant gaps | Action(s) | Responsibility | Indicator of achievement | Timeframe | | |
| <12 months | 12-24 months | >24 months |
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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Advanced Requirements** | | | | | | | |
| Section | Requirement sought | Action(s) | Responsibility | Indicator of achievement | Timeframe | | |
| <12 months | 12-24 months | >24 months |
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# Environmental and Social Assessment and Management A picture containing drawing, light Description automatically generated

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| **Scope and Principle** |
| This section addresses the assessment and planning processes for environmental and social impacts associated with project implementation and operation throughout the area of impact of the project, the contribution of the project in meeting demonstrated needs for water and energy services, and the evaluation and determination of project siting and design options. The principle is that environmental and social impacts are identified and assessed, and that avoidance, minimisation and mitigation measures are designed and implemented. |

|  |  |
| --- | --- |
| **Background** | |
| Identify the main environmental and social issues during implementation | Click here to enter text. |
| Identify the main environmental and social issues during operation | Click here to enter text. |
| Identify the environmental regulator | Click here to enter text. |
| Identify other regulators (e.g. on land, water use, Indigenous Peoples) | Click here to enter text. |
| Summarise the ESIA regulatory requirements | Click here to enter text. |
| List the key license conditions/voluntary commitments | Click here to enter text. |
| Total environmental and social costs in project development, including resettlement costs | Click here to enter text. |
| Description of the non-physical cultural heritage in the project area | Click here to enter text. |
| Other relevant information | Click here to enter text. |

| **Minimum Requirements** | | | **Advanced Requirements** | | |
| --- | --- | --- | --- | --- | --- |
| **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** | **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** |
| **Assessment** | | | | | |
| Assessments of project environmental and social impacts | Select. | Click here to enter text. | The assessment takes broad considerations into account, and both risks and opportunities | Select. | Click here to enter text. |
| Assessments address: | | |
| · project implementation | Select. | Click here to enter text. |
| · project operation | Select. | Click here to enter text. |
| · associated facilities | Select. | Click here to enter text. | The social impact assessment incorporates assessment of human rights | Select. | Click here to enter text. |
| · cumulative impacts | Select. | Click here to enter text. |
| · role and capacity of third parties | Select. | Click here to enter text. |
| · impacts associated with primary suppliers | Select. | Click here to enter text. |
| Assessments have been prepared using appropriate expertise | Select. | Click here to enter text. | The assessment is based on dialogue with government planners, policy makers and key stakeholder groups | Select. | Click here to enter text. |
| A baseline has been established and well-documented for the pre-project condition against which post-project changes can be compared | Select. | Click here to enter text. |
| Assessment of needs for water and energy services | Select. | Click here to enter text. | The assessment shows a strong emphasis on social and environmental needs, policies and plans, including the need for sustainable development of the river basin and integrated water resource management | Select. | Click here to enter text. |
| Assessment of options to meet water and energy needs | Select. | Click here to enter text. |
| Assessment of national and regional policies and plans relevant to those needs | Select. | Click here to enter text. | Options take into consideration sustainable river basin design and integrated water resources management | Select. | Click here to enter text. |
| Social and environmental considerations, including regulatory considerations, have been analysed at an early stage in preliminary project designs and options | Select. | Click here to enter text. |
| **Management** | | | | | |
| Environmental and social management plans and processes have been developed | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging risks and opportunities | Select. | Click here to enter text. |
| Plans address project implementation | Select. | Click here to enter text. |
| Plans address project operation | Select. | Click here to enter text. |
| Plans have been prepared using appropriate expertise (internal and external) | Select. | Click here to enter text. | Plans are embedded within an internationally recognised environmental management system which is third party verified, such as ISO 14001 | Select. | Click here to enter text. |
| Plans address all key social and environmental issues | Select. | Click here to enter text. |
| Plans address construction-related waste, noise, air quality, land disturbance and rehabilitation | Select. | Click here to enter text. | Independent review mechanisms are utilised | Select. | Click here to enter text. |
| Environmental and social impact assessment and key associated management plans are publicly disclosed | Select. | Click here to enter text. |
| An optimisation process has been undertaken to assess the project siting and design options | Select. | Click here to enter text. |
| **Outcomes** | | | | | |
| Environmental and social plans avoid, minimise and mitigate negative impacts | Select. | Click here to enter text. | Environmental and social plans avoid, minimise, mitigate and compensate negative project impacts | Select. | Click here to enter text. |
| The strategic fit of the project with needs for water and energy services, and relevant policies and plans can be demonstrated | Select. | Click here to enter text. | Plans provide for enhancements to preproject environmental or social conditions or contribute to addressing issues beyond those impacts caused by the project | Select. | Click here to enter text. |
| The final project siting and design has responded to environmental and social considerations | Select. | Click here to enter text. | The project is one of the priority options to address demonstrated needs | Select. | Click here to enter text. |
| The project can pay for social and environmental plans and commitments | Select. | Click here to enter text. | The final project siting and design is optimal with respect to sustainability considerations for siting and design | Select. | Click here to enter text. |

| List of significant gaps against **Minimum Requirements** | Number of **Advanced Requirements** met |
| --- | --- |
| * 1. * 2. * 3. | Click here to enter text. |

| Summary of findings and other notable issues |
| --- |
| Click here to enter text. |

|  |  |
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| Relevant evidence | |
| Interview | Click here to enter text. |
| Document | Click here to enter text. |
| Photo | Click here to enter text. |

# Labour and Working Conditions

|  |
| --- |
| **Scope and Principle** |
| This section addresses labour and working conditions, including employee and contractor opportunity, equity, diversity, health and safety. The principle is that workers are treated fairly and protected. |

|  |  |
| --- | --- |
| **Background** | |
| Labour requirements during implementation (full-time equivalent) | Click here to enter text. |
| Labour requirements during operation (full-time equivalent) | Click here to enter text. |
| Applicable key human resources regulations | Click here to enter text. |
| Applicable key occupational health and safety (OH&S) regulations | Click here to enter text. |
| Identify the regulator for labour law and OH&S | Click here to enter text. |
| Other relevant information | Click here to enter text. |

| **Minimum Requirements** | | | **Advanced Requirements** | | |
| --- | --- | --- | --- | --- | --- |
| **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** | **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** |
| **Assessment** | | | | | |
| Assessment of human resource and labour management requirements | Select. | Click here to enter text. | The assessment takes broad considerations into account, and both risks and opportunities | Select. | Click here to enter text. |
| The assessment includes project occupational health and safety issues, risks, and management measures | Select. | Click here to enter text. |
| **Management** | | | | | |
| Human resource and labour management policies, plans and processes have been developed for project implementation | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging risks and opportunities | Select. | Click here to enter text. |
| Human resource and labour management policies, plans and processes have been developed for project operation | Select. | Click here to enter text. |
| These plans cover all labour management planning components, including those of contractors, subcontractors and intermediaries | Select. | Click here to enter text. |
| **Outcomes** | | | | | |
| There are no identified inconsistencies of labour management policies, plans and practices with internationally recognised labour rights | Select. | Click here to enter text. | Labour management policies, plans and practices are demonstrated to be consistent with internationally recognised labour rights | Select. | Click here to enter text. |

| List of significant gaps against **Minimum Requirements** | Number of **Advanced Requirements** met |
| --- | --- |
| * 1. * 2. * 3. | Click here to enter text. |

| Summary of findings and other notable issues |
| --- |
| Click here to enter text. |

|  |  |
| --- | --- |
| Relevant evidence | |
| Interview | Click here to enter text. |
| Document | Click here to enter text. |
| Photo | Click here to enter text. |

# Water Quality and Sediments

|  |
| --- |
| **Scope and Principle** |
| This section addresses the management of water quality, erosion and sedimentation issues associated with the project. The principle is that water quality in the vicinity of the project is not adversely impacted by project activities, and that erosion and sedimentation caused by the project are managed responsibly and do not present problems with respect to other social, environmental and economic objectives. |

|  |  |
| --- | --- |
| **Background** | |
| **Water Quality** | |
| Description of water quality | Click here to enter text. |
| Key water quality issues | Click here to enter text. |
| Main influences on water quality | Click here to enter text. |
| **Sedimentology** | |
| Key sediment issues | Click here to enter text. |
| Sediment load (tonnes/year) | Click here to enter text. |
| Catchment area at the dam | Click here to enter text. |
| **Other information** | Click here to enter text. |

| **Minimum Requirements** | | | **Advanced Requirements** | | |
| --- | --- | --- | --- | --- | --- |
| **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** | **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** |
| **Assessment** | | | | | |
| Water quality issues assessment | Select. | Click here to enter text. | The assessment takes broad considerations into account, and both risks and opportunities | Select. | Click here to enter text. |
| Erosion and sedimentation issues assessment | Select. | Click here to enter text. |
| Identification of erosion and sedimentation impacts that may be caused by the project | Select. | Click here to enter text. |
| Identification of erosion and sedimentation issues that may impact on the project | Select. | Click here to enter text. |
| An understanding of the sediment load and dynamics for the affected river system | Select. | Click here to enter text. |
| **Management** | | | | | |
| Plans and processes to address identified water quality issues have been developed for project implementation | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging risks and opportunities for water quality | Select. | Click here to enter text. |
| Plans and processes to address identified water quality issues have been developed for project operation | Select. | Click here to enter text. |
| Plans and processes to address identified erosion and sedimentation issues have been developed for project implementation | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging risks and opportunities for erosion and sedimentation | Select. | Click here to enter text. |
| Plans and processes to address identified erosion and sedimentation issues have been developed for project operation | Select. | Click here to enter text. |
| **Outcomes** | | | | | |
| Plans avoid, minimise and mitigate negative water quality impacts arising from project activities | Select. | Click here to enter text. | Plans avoid, minimise, mitigate and compensate negative water quality impacts | Select. | Click here to enter text. |
| Plans provide for enhancements to pre-project water quality conditions or contribute to addressing water quality issues beyond those impacts caused by the project | Select. | Click here to enter text. |
| Plans avoid, minimise and mitigate erosion and sedimentation issues arising from project activities | Select. | Click here to enter text. | Plans avoid, minimise, mitigate and compensate erosion and sedimentation issues arising from project activities | Select. | Click here to enter text. |
| Plans avoid, minimise and mitigate erosion and sedimentation issues that may impact on the project | Select. | Click here to enter text. | Plans provide for enhancements to pre-project erosion and sedimentation conditions or contribute to addressing erosion and sedimentation issues beyond those impacts caused by the project | Select. | Click here to enter text. |

| List of significant gaps against **Minimum Requirements** | Number of **Advanced Requirements** met |
| --- | --- |
| * 1. * 2. * 3. | Click here to enter text. |

| Summary of findings and other notable issues |
| --- |
| Click here to enter text. |

|  |  |
| --- | --- |
| Relevant evidence | |
| Interview | Click here to enter text. |
| Document | Click here to enter text. |
| Photo | Click here to enter text. |

# Community Impacts and Infrastructure Safety

|  |
| --- |
| **Scope and Principle** |
| This section addresses impacts of the project on project-affected communities, including economic displacement, impacts on livelihoods and living standards, public health impacts, and impacts to rights, risks and opportunities of those affected by the project. This section also addresses project benefits and infrastructure safety during project preparation, implementation and operation. The principle is that livelihoods and living standards impacted by the project are improved relative to pre-project conditions for project-affected communities, and that life, property and community assets and resources are protected from the consequences of dam failure and other infrastructure safety risks. This section does not address requirements that relate to physical displacement or to Indigenous Peoples, which are addressed in Section 5 and 7. Other interested parties and groups are addressed in Section 10. |

|  |  |
| --- | --- |
| **Background** | |
| **Community Impacts and Benefits** | |
| Description of project-affected communities and how they are affected (distinguish between directly affected vs economically displaced vs other affected communities and include number of people and households) | Click here to enter text. |
| Agencies relevant to land acquisition | Click here to enter text. |
| Agencies relevant to livelihood restoration and project benefits | Click here to enter text. |
| **Infrastructure Safety and Public Health** | |
| Type of dam | Click here to enter text. |
| Dam height (m) | Click here to enter text. |
| Probable maximum flood (m3/s) | Click here to enter text. |
| Design flood (expressed as estimated flood with return period) | Click here to enter text. |
| Spillway capacity (m3/s) | Click here to enter text. |
| Spillway height (masl) | Click here to enter text. |
| Headrace length (m) | Click here to enter text. |
| Headrace width (m) | Click here to enter text. |
| Headrace capacity (m3/s) | Click here to enter text. |
| Seismicity | Click here to enter text. |
| Geology | Click here to enter text. |
| Dam safety regulatory authorities | Click here to enter text. |
| Local presence/capacity of emergency services | Click here to enter text. |
| Potential safety risks in this context | Click here to enter text. |
| Degree of risk of dam failure and in what way | Click here to enter text. |
| Population at risk of dam break (locations, numbers) | Click here to enter text. |
| Dam safety standards followed | Click here to enter text. |
| Agencies relevant to dam safety | Click here to enter text. |
| Other infrastructure safety issues | Click here to enter text. |
| Description of key public health issues | Click here to enter text. |
| Agencies relevant to public health | Click here to enter text. |

| **Minimum Requirements** | | | **Advanced Requirements** | | |
| --- | --- | --- | --- | --- | --- |
| **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** | **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** |
| **Assessment** | | | | | |
| **Community Impacts and Benefits** | | | | | |
| An assessment of issues relating to project-affected communities | Select. | Click here to enter text. | The assessment takes broad considerations into account, and both risks and opportunities relating to project-affected communities and project benefits | Select. | Click here to enter text. |
| This assessment utilised local knowledge | Select. | Click here to enter text. |
| An assessment of opportunities to increase the development contribution of the project through additional benefits and/or benefit sharing strategies | Select. | Click here to enter text. |
| The pre-project baseline against which delivery of benefits can be evaluated post-project is well-documented | Select. | Click here to enter text. |
| **Infrastructure Safety and Public Health** | | | | | |
| An assessment of dam and other infrastructure safety risks during project preparation, construction, and operation | Select. | Click here to enter text. | The assessment takes broad considerations into account, and both risks and opportunities relating to infrastructure safety | Select. | Click here to enter text. |
| This assessment was conducted using appropriate expertise | Select. | Click here to enter text. |
| Public health issues assessment | Select. | Click here to enter text. | The assessment takes broad considerations into account, and both risks and opportunities relating to public health | Select. | Click here to enter text. |
| This assessment includes public health system capacities and access to health services | Select. | Click here to enter text. |
| This assessment has considered health needs, issues and risks for different community groups | Select. | Click here to enter text. |
| **Management** | | | | | |
| **Community Impacts and Benefits** | | | | | |
| Management plans and processes for issues that affect project-affected communities have been developed | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging risks and opportunities relating to project-affected communities and project benefits | Select. | Click here to enter text. |
| These plans and processes include monitoring procedures, utilising local expertise when available | Select. | Click here to enter text. |
| If there are formal agreements with project-affected communities, these are publicly disclosed | Select. | Click here to enter text. |
| Project benefit plans and processes have been developed for project implementation that incorporate additional benefit or benefit sharing commitments | Select. | Click here to enter text. |
| Project benefit plans and processes have been developed for project operation that incorporate additional benefit or benefit sharing commitments | Select. | Click here to enter text. |
| Commitments to project benefits are publicly disclosed | Select. | Click here to enter text. |
| **Infrastructure Safety and Public Health** | | | | | |
| Dam and other infrastructure safety management plans and processes have been developed for project implementation | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging infrastructure safety risks and opportunities | Select. | Click here to enter text. |
| Dam and other infrastructure safety management plans and processes have been developed for project operation | Select. | Click here to enter text. |
| These plans have been developed in conjunction with relevant regulatory and local authorities | Select. | Click here to enter text. | Plans provide for public safety measures to be widely communicated in a timely and accessible manner | Select. | Click here to enter text. |
| Plans provide for communication of public safety measures | Select. | Click here to enter text. |
| Emergency response plans include awareness and training programmes and emergency response simulations | Select. | Click here to enter text. | Emergency response plans are independently reviewed | Select. | Click here to enter text. |
| Dam safety is independently reviewed | Select. | Click here to enter text. |
| Plans and processes to address identified public health issues have been developed for project implementation | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging public health risks and opportunities | Select. | Click here to enter text. |
| Plans and processes to address identified public health issues have been developed for project operation | Select. | Click here to enter text. |
| **Outcomes** | | | | | |
| **Community Impacts and Benefits** | | | | | |
| Plans provide for livelihoods and living standards impacted by the project to be improved | Select. | Click here to enter text. | Plans provide for livelihoods and living standards that are impacted by the project to be improved with the aim of self-sufficiency in the long-term | Select. | Click here to enter text. |
| Plans provide for economic displacement to be fairly compensated, preferably through provision of comparable goods, property or services | Select. | Click here to enter text. | The project contributes to addressing issues for project-affected communities beyond impacts caused by the project itself | Select. | Click here to enter text. |
| Plans deliver benefits for communities affected by the project | Select. | Click here to enter text. | Plans deliver significant and sustained benefits for communities affected by the project | Select. | Click here to enter text. |
| **Infrastructure Safety and Public Health** | | | | | |
| Plans avoid, minimise and mitigate safety risks | Select. | Click here to enter text. | Plans contribute to addressing safety issues beyond those risks caused by the project itself | Select. | Click here to enter text. |
| Plans avoid, minimise and mitigate negative public health impacts arising from project activities | Select. | Click here to enter text. | Plans avoid, minimise, mitigate and compensate negative public health impacts | Select. | Click here to enter text. |
| Plans provide for enhancements to pre-project public health conditions or contribute to addressing public health issues beyond those impacts caused by the project | Select. | Click here to enter text. |

| List of significant gaps against **Minimum Requirements** | Number of **Advanced Requirements** met |
| --- | --- |
| * 1. * 2. * 3. | Click here to enter text. |

| Summary of findings and other notable issues |
| --- |
| Click here to enter text. |

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| --- | --- |
| Relevant evidence | |
| Interview | Click here to enter text. |
| Document | Click here to enter text. |
| Photo | Click here to enter text. |

# Resettlement

|  |
| --- |
| **Scope and Principle** |
| This section addresses physical displacement arising from the hydropower project development. The principle is that the dignity and human rights of those physically displaced are respected; that these matters are dealt with in a fair and equitable manner; and that livelihoods and standards of living for resettles and host communities are improved. This section does not address those that are only economically displaced, who are addressed in Section 4. |

|  |
| --- |
| **Background** |

|  |  |
| --- | --- |
| Does the project require or result in any physical displacement of people? Please state the evidence on which this determination is made. | |
| Yes, this section is relevant | Click here to enter text. |
| No, this section is not relevant | Click here to enter text. |

|  |  |
| --- | --- |
| Description of physically displaced communities and how they are displaced (distinguish between permanently vs temporarily and include number of people and households) | Click here to enter text. |
| Name and number of settlements | Click here to enter text. |
| Agencies relevant to land acquisition | Click here to enter text. |
| Agencies relevant to livelihood restoration | Click here to enter text. |
| Other relevant information | Click here to enter text. |

| **Minimum Requirements** | | | **Advanced Requirements** | | |
| --- | --- | --- | --- | --- | --- |
| **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** | **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** |
| **Assessment** | | | | | |
| An assessment of the resettlement implications of the project has been undertaken early in the project preparation stage | Select. | Click here to enter text. | The assessment takes broad considerations into account, and both risks and opportunities | Select. | Click here to enter text. |
| This has established the socio-economic baseline for resettlement for potential resettlees and host communities | Select. | Click here to enter text. |
| This has included an economic assessment of required resettlement including ongoing costs for improvement in living standards | Select. | Click here to enter text. |
| **Management** | | | | | |
| A Resettlement Action Plan and associated processes have been developed for project implementation | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging risks and opportunities | Select. | Click here to enter text. |
| A Resettlement Action Plan and associated processes have been developed for project operation | Select. | Click here to enter text. |
| The RAP and associated processes have been developed in a timely manner | Select. | Click here to enter text. |
| The RAP or associated processes include: | | |
| • up-to-date socio-economic baseline | Select. | Click here to enter text. |
| • compensation framework | Select. | Click here to enter text. |
| • grievance mechanisms | Select. | Click here to enter text. |
| • monitoring procedures | Select. | Click here to enter text. |
| Formal agreements with resettlees and host communities are publicly disclosed | Select. | Click here to enter text. |
| **Outcomes** | | | | | |
| Plans provide for resettlement to be treated in a fair and equitable manner | Select. | Click here to enter text. | Plans provide for resettlees and host communities to experience a timely improvement in livelihoods and living standards with the aim of self-sufficiency in the long term | Select. | Click here to enter text. |
| Resettlees and host communities will experience a timely improvement in livelihoods and living standards | Select. | Click here to enter text. |

| List of significant gaps against **Minimum Requirements** | Number of **Advanced Requirements** met |
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| * 1. * 2. * 3. | Click here to enter text. |

| Summary of findings and other notable issues |
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| Click here to enter text. |

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| Relevant evidence | |
| Interview | Click here to enter text. |
| Document | Click here to enter text. |
| Photo | Click here to enter text. |

# Biodiversity and Invasive Species

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| **Scope and Principle** |
| This section addresses ecosystem values, habitat and specific issues such as threatened species and fish passage in the catchment, reservoir and downstream areas, as well as potential impacts arising from pest and invasive species associated with the project. The principle is that there are healthy, functional and viable aquatic and terrestrial ecosystems in the project-affected area that are sustainable over the long-term, and that biodiversity impacts arising from project activities are managed responsibly. |

|  |  |
| --- | --- |
| **Background** | |
| Short description of the ecological region in the project area | Click here to enter text. |
| Protected areas (national parks and reserves etc) and their distance from the project | Click here to enter text. |
| Critical habitats in the project area, including important bird areas, hotspots of endemism etc. | Click here to enter text. |
| # threatened species in the directly affected area: terrestrial | Click here to enter text. |
| # threatened species: aquatic | Click here to enter text. |
| Any other species of conservation importance | Click here to enter text. |
| Migratory pathways | Click here to enter text. |
| Invasive species: terrestrial | Click here to enter text. |
| Invasive species: aquatic | Click here to enter text. |
| Key threats to biodiversity | Click here to enter text. |
| Agencies involved in biodiversity conservation | Click here to enter text. |
| Other relevant information | Click here to enter text. |

| **Minimum Requirements** | | | **Advanced Requirements** | | |
| --- | --- | --- | --- | --- | --- |
| **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** | **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** |
| **Assessment** | | | | | |
| Assessment of terrestrial biodiversity | Select. | Click here to enter text. | The assessment takes broad considerations into account, and both risks and opportunities | Select. | Click here to enter text. |
| Assessment of aquatic biodiversity including passage of aquatic species and loss of connectivity to significant habitat | Select. | Click here to enter text. |
| Assessment of risks of invasive species | Select. | Click here to enter text. |
| **Management** | | | | | |
| Plans and processes to address identified biodiversity issues have been developed for project implementation | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging risks and opportunities | Select. | Click here to enter text. |
| Plans and processes to address identified biodiversity issues have been developed for project operation | Select. | Click here to enter text. | Commitments in plans are public, formal and legally enforceable | Select. | Click here to enter text. |
| **Outcomes** | | | | | |
| Plans avoid, minimise, mitigate and compensate negative biodiversity impacts arising from project activities with no significant gaps | Select. | Click here to enter text. | Plans avoid, minimise, mitigate and compensate negative biodiversity impacts arising from project activities with no identified gaps | Select. | Click here to enter text. |
| Plans provide for enhancements to pre-project biodiversity conditions or contribute to addressing biodiversity issues beyond those impacts caused by the project | Select. | Click here to enter text. |

| List of significant gaps against **Minimum Requirements** | Number of **Advanced Requirements** met |
| --- | --- |
| * 1. * 2. * 3. | Click here to enter text. |

| Summary of findings and other notable issues |
| --- |
| Click here to enter text. |

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| Relevant evidence | |
| Interview | Click here to enter text. |
| Document | Click here to enter text. |
| Photo | Click here to enter text. |

# Indigenous Peoples

|  |
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| **Scope and Principle** |
| This section addresses the rights at risk and opportunities of Indigenous Peoples with respect to the project, recognising that as social groups with identities distinct from dominant groups in national societies, they are often the most marginalised and vulnerable segments of the population. The principle is that the project respects the dignity, human rights, aspirations, culture, lands, knowledge, practices and natural resource-based livelihoods of Indigenous Peoples in an ongoing manner throughout the project life. |

|  |  |
| --- | --- |
| **Background** | |
| Are any of the affected people Indigenous Peoples? Please state the evidence on which this determination is made. | |
| Yes, this section is relevant | Click here to enter text. |
| No, this section is not relevant | Click here to enter text. |

|  |  |
| --- | --- |
|  | Add columns for each Indigenous People |
| Brief description of the peoples and their culture, lands, and representation | Click here to enter text. |
| Directly affected communities and how they are affected | Click here to enter text. |
| Other affected indigenous communities | Click here to enter text. |
| # households physically displaced | Click here to enter text. |
| # households economically displaced | Click here to enter text. |

|  |  |
| --- | --- |
| Agencies relevant to Indigenous Peoples | Click here to enter text. |
| Other relevant information | Click here to enter text. |

| **Minimum Requirements** | | | **Advanced Requirements** | | |
| --- | --- | --- | --- | --- | --- |
| **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** | **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** |
| **Assessment** | | | | | |
| An assessment of the representation of Indigenous Peoples in the project-affected community | Select. | Click here to enter text. | The assessment takes broad considerations into account, including wider opportunities for Indigenous Peoples | Select. | Click here to enter text. |
| The assessment includes identification of their rights at risk in relation to the project | Select. | Click here to enter text. |
| The assessment utilised local knowledge and expertise | Select. | Click here to enter text. |
| **Management** | | | | | |
| Plans and processes have been developed for project implementation to address the Indigenous Peoples’ rights at risk | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging risks and opportunities | Select. | Click here to enter text. |
| Plans and processes have been developed for project operation to address the Indigenous Peoples’ rights at risk | Select. | Click here to enter text. |
| Formal commitments are publicly disclosed | Select. | Click here to enter text. |
| **Stakeholder Engagement** | | | | | |
| Good-faith consultation with Indigenous Peoples’ institutions of representation and decision-making, as determined by them, has been carried out | Select. | Click here to enter text. | Feedback on how issues raised have been taken into consideration has been thorough and timely | Select. | Click here to enter text. |
| This consultation has been: | | |
| • appropriately timed | Select. | Click here to enter text. |
| • culturally appropriate | Select. | Click here to enter text. |
| • two-way | Select. | Click here to enter text. |
| A mutually-agreed disputes procedure is in place | Select. | Click here to enter text. |
| **Stakeholder Support** | | | | | |
| Free, Prior and Informed Consent has been achieved with respect to the Indigenous Peoples’ rights at risk following the principle of proportionality | Select. | Click here to enter text. | Free, Prior and Informed Consent of directly affected indigenous groups has been achieved for the entire project | Select. | Click here to enter text. |
| **Outcomes** | | | | | |
| Plans provide for negative impacts of the project to Indigenous Peoples’ rights to be avoided, minimised, mitigated or compensated | Select. | Click here to enter text. | Opportunities for positive impacts have been thoroughly identified and maximised as far as practicable | Select. | Click here to enter text. |
| Plans provide some practicable opportunities for positive impacts to be achieved | Select. | Click here to enter text. |

| List of significant gaps against **Minimum Requirements** | Number of **Advanced Requirements** met |
| --- | --- |
| * 1. * 2. * 3. | Click here to enter text. |

| Summary of findings and other notable issues |
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| Click here to enter text. |

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| Relevant evidence | |
| Interview | Click here to enter text. |
| Document | Click here to enter text. |
| Photo | Click here to enter text. |

# Cultural Heritage

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| **Scope and Principle** |
| This section addresses cultural heritage, with specific reference to physical cultural resources, at risk of damage or loss by the hydropower project and associated infrastructure impacts (e.g. new roads, transmission lines). The principle is that physical cultural resources are identified, their importance is understood, and measures are in place to address those identified to be of high importance. This section does not address non-physical cultural resources, which are addressed in Section 1 and/or in Sections 5 and 7 when relevant. |

|  |  |
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| **Background** | |
| Does the project affect any physical cultural resources? Please state the evidence on which this determination is made. | |
| Yes, this section is relevant | Click here to enter text. |
| No, this section is not relevant | Click here to enter text. |

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| Sites of physical cultural heritage affected by or in proximity to the project-affected areas | How they are affected |
| Click here to enter text. | Click here to enter text. |

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| Agencies responsible for cultural heritage | Click here to enter text. |
| Other important local or regional cultural heritage values and issues | Click here to enter text. |

| **Minimum Requirements** | | | **Advanced Requirements** | | |
| --- | --- | --- | --- | --- | --- |
| **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** | **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** |
| **Assessment** | | | | | |
| A cultural heritage assessment has been undertaken | Select. | Click here to enter text. | The assessment takes broad considerations into account, and both risks and opportunities | Select. | Click here to enter text. |
| The assessment includes: | | |
| • identification and recording of physical cultural resources | Select. | Click here to enter text. |
| • evaluation of the relative levels of importance | Select. | Click here to enter text. |
| • identification of any risks arising from the project | Select. | Click here to enter text. |
| **Management** | | | | | |
| Plans and processes to address physical cultural resources have been developed for project implementation | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging risks and opportunities | Select. | Click here to enter text. |
| Plans and processes to address physical cultural resources have been developed for project operation | Select. | Click here to enter text. |
| Plans include arrangements for chance finds | Select. | Click here to enter text. | Plans are supported by public, formal and legally enforceable commitments | Select. | Click here to enter text. |
| Plans ensure that cultural heritage expertise will be on site and regularly liaised with by the project management team during construction | Select. | Click here to enter text. |
| **Outcomes** | | | | | |
| Plans avoid, minimise, mitigate and compensate negative impacts on cultural heritage arising from project activities with no significant gaps | Select. | Click here to enter text. | Plans avoid, minimise, mitigate and compensate negative cultural heritage impacts with no identified gaps | Select. | Click here to enter text. |
| Plans contribute to addressing cultural heritage issues beyond those impacts caused by the project | Select. | Click here to enter text. |

| List of significant gaps against **Minimum Requirements** | Number of **Advanced Requirements** met |
| --- | --- |
| * 1. * 2. * 3. | Click here to enter text. |

| Summary of findings and other notable issues |
| --- |
| Click here to enter text. |

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| Relevant evidence | |
| Interview | Click here to enter text. |
| Document | Click here to enter text. |
| Photo | Click here to enter text. |

# Governance and Procurement

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| **Scope and Principle** |
| This section addresses corporate and external governance considerations for the project, and all project-related procurement including works, goods and services. The principle is that the developer has sound corporate business structures, policies and practices, and that procurement processes are equitable, transparent and accountable. |

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| --- | --- |
| **Background** | |
| Key information on political context and public sector risks | Click here to enter text. |
| Key information on corporate ownership and governance | Click here to enter text. |
| Details of the concession, if applicable | Click here to enter text. |
| Key licensing or permitting requirements | Click here to enter text. |
| Key information on expected procurement strategy for this project (EPC, BOOT, etc) | Click here to enter text. |
| Other relevant information | Click here to enter text. |

| **Minimum Requirements** | | | **Advanced Requirements** | | |
| --- | --- | --- | --- | --- | --- |
| **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** | **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** |
| **Assessment** | | | | | |
| Assessments have been undertaken of the following through the project development cycle: | | | There are no significant opportunities for improvement in the assessment of political and public sector governance issues | Select. | Click here to enter text. |
| • political and public sector governance issues | Select. | Choose an item. |
| • corporate governance requirements and issues | Select. | Choose an item. | There are no significant opportunities for improvement in the assessment of corporate governance requirements and issues | Select. | Click here to enter text. |
| • major supply needs, supply sources, relevant legislation and guidelines, supply chain risks and corruption risks | Select. | Click here to enter text. | The assessment includes opportunities for local suppliers and local capacity development. | Select. | Click here to enter text. |
| **Management** | | | | | |
| Processes are in place to manage the following: | | | Processes are in place to anticipate and respond to emerging risks and opportunities | Select. | Click here to enter text. |
| • corporate, political and public sector risks | Select. | Click here to enter text. |
| • compliance | Select. | Click here to enter text. | Contractors are required to meet or have consistent policies as the developer | Select. | Click here to enter text. |
| • social and environmental responsibility | Select. | Click here to enter text. |
| • grievance mechanisms | Select. | Click here to enter text. |
| • ethical business practices | Select. | Click here to enter text. | Sustainability and anti-corruption criteria are specified in the pre-qualification screening | Select. | Click here to enter text. |
| • transparency | Select. | Click here to enter text. |
| Policies and processes are communicated internally and externally as appropriate | Select. | Click here to enter text. |
| Independent review mechanisms are utilised to address sustainability issues in cases of project capacity shortfalls, high sensitivity of particular issues, or the need for enhanced credibility | Select. | Click here to enter text. | Anti-corruption measures are strongly emphasised in procurement planning processes | Select. | Click here to enter text. |
| Procurement plans and processes have been developed for project implementation | Select. | Click here to enter text. |
| Procurement plans and processes have been developed for project operation | Select. | Click here to enter text. |
| **Conformance and Compliance** | | | | | |
| The project has no major non-compliances relating to governance | Select. | Click here to enter text. | There are no non-compliances | Select. | Click here to enter text. |
| Processes and objectives relating to procurement have been and are on track to be met with: | | |
| • no major non-compliances | Select. | Click here to enter text. |
| • no major non-conformances | Select. | Click here to enter text. | There are no non-conformances | Select. | Click here to enter text. |
| Any procurement related commitments have been or are on track to be met | Select. | Click here to enter text. |
| **Outcomes** | | | | | |
| There are no significant unresolved corporate and external governance issues identified | Select. | Click here to enter text. | There are no unresolved corporate and external governance issues identified | Select. | Click here to enter text. |
| Procurement of works, goods and services across major project components is: | | |
| • equitable | Select. | Click here to enter text. |
| • efficient | Select. | Click here to enter text. |
| • transparent | Select. | Click here to enter text. | Opportunities for local suppliers including initiatives for local capacity development have been delivered or are on track to be delivered | Select. | Click here to enter text. |
| • accountable | Select. | Click here to enter text. |
| • ethical | Select. | Click here to enter text. |
| • timely | Select. | Click here to enter text. |
| Contracts are progressing or have been concluded within budget or changes on contracts are clearly justifiable | Select. | Click here to enter text. |

| List of significant gaps against **Minimum Requirements** | Number of **Advanced Requirements** met |
| --- | --- |
| * 1. * 2. * 3. | Click here to enter text. |

| Summary of findings and other notable issues |
| --- |
| Click here to enter text. |

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| Relevant evidence | |
| Interview | Click here to enter text. |
| Document | Click here to enter text. |
| Photo | Click here to enter text. |

# Communications and Consultation

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| **Scope and Principle** |
| This section addresses the identification and engagement with project stakeholders, both within the company as well as between the company and external stakeholders (e.g. affected communities, governments, key institutions, partners, contractors, catchment residents, etc). The principle is that stakeholders are identified and engaged in the issues of interest to them, and communication and consultation processes establish a foundation for good stakeholder relations throughout the project life. Communications and consultation requirements unique to Indigenous Peoples are found in Section 7. |

|  |  |
| --- | --- |
| **Background** | |
| Directly affected community-level stakeholders | Click here to enter text. |
| Directly affected institutional-level stakeholders | Click here to enter text. |
| Other relevant information | Click here to enter text. |

| **Minimum Requirements** | | | **Advanced Requirements** | | |
| --- | --- | --- | --- | --- | --- |
| **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** | **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** |
| **Assessment** | | | | | |
| Stakeholder mapping has been undertaken to identify and analyse stakeholders | Select. | Click here to enter text. | The stakeholder mapping takes broad considerations into account | Select. | Click here to enter text. |
| It establishes those that are directly affected | Select. | Click here to enter text. |
| It establishes communication requirements and priorities | Select. | Click here to enter text. |
| **Management** | | | | | |
| Communications and consultation plans and processes have been developed at an early stage | Select. | Click here to enter text. | Communication and consultation plans and processes show a high level of sensitivity to communication and consultation needs and approaches for various stakeholder groups and topics | Select. | Click here to enter text. |
| They outline communication and consultation needs and approaches for various stakeholder groups and topics | Select. | Click here to enter text. |
| They are applicable to project preparation, implementation and operation | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging risks and opportunities | Select. | Click here to enter text. |
| They include an appropriate grievance mechanism | Select. | Click here to enter text. |
| **Stakeholder Engagement** | | | | | |
| There has been engagement with the following groups, or on the following topics, or through the following processes, with directly affected stakeholders: | | | Engagement with directly affected stakeholders has been inclusive and participatory | Select. | Click here to enter text. |
| • Project preparation, on topics of interest and relevance to directly affected stakeholders | Select. | Click here to enter text. |
| • The business interacts with a range of directly affected stakeholders to understand issues of interest to them | Select. | Click here to enter text. |
| • Environmental and social impact assessment and management planning | Select. | Click here to enter text. |
| • Siting and design optimisation | Select. | Click here to enter text. |
| • Project benefits | Select. | Click here to enter text. |
| • Project-affected communities | Select. | Click here to enter text. |
| • Resettlees and host communities | Select. | Click here to enter text. |
| • Assessment and planning for cultural heritage issues | Select. | Click here to enter text. |
| • Assessment and planning for public health, including health officials | Select. | Click here to enter text. |
| • Downstream flow regimes | Select. | Click here to enter text. | Negotiations are undertaken in good faith | Select. | Click here to enter text. |
| • Plans for the management of climate risks | Select. | Click here to enter text. |
| Engagement with directly affected stakeholders has been appropriately timed: | | |
| • Project preparation, on topics of interest and relevance to them | Select. | Click here to enter text. |
| • Environmental and social impact assessment and management planning | Select. | Click here to enter text. |
| • Siting and design optimisation | Select. | Click here to enter text. |
| • Project benefits | Select. | Click here to enter text. |
| • Project-affected communities | Select. | Click here to enter text. |
| • Resettlees and host communities | Select. | Click here to enter text. |
| • Assessment and planning for cultural heritage issues | Select. | Click here to enter text. |
| • Assessment and planning for public health | Select. | Click here to enter text. | Feedback on how issues raised have been taken into consideration has been thorough and timely | Select. | Click here to enter text. |
| • Downstream flow regimes | Select. | Click here to enter text. |
| Engagement with directly affected stakeholders has often been two-way: | | |
| • Project preparation, on topics of interest and relevance to them | Select. | Click here to enter text. |
| • Environmental and social impact assessment and management planning | Select. | Click here to enter text. |
| • Siting and design optimisation | Select. | Click here to enter text. |
| • Project benefits | Select. | Click here to enter text. |
| • Project-affected communities | Select. | Click here to enter text. |
| • Resettlees and host communities | Select. | Click here to enter text. |
| • Assessment and planning for cultural heritage issues | Select. | Click here to enter text. |
| • Assessment and planning for public health | Select. | Click here to enter text. | The business makes significant project reports publicly available | Select. | Click here to enter text. |
| • Downstream flow regimes | Select. | Click here to enter text. |
| Engagement is undertaken in good faith | Select. | Click here to enter text. |
| Ongoing processes are in place for stakeholders to raise issues and get feedback | Select. | Click here to enter text. |
| Ongoing processes are in place for: | | |
| • Environmental and social impact assessment and management planning | Select. | Click here to enter text. |
| • Siting and design optimisation | Select. | Click here to enter text. |
| • Project benefits | Select. | Click here to enter text. |
| • Project-affected communities | Select. | Click here to enter text. |
| • Resettlees and host communities | Select. | Click here to enter text. | The business publicly reports on project performance in sustainability areas of high interest to its stakeholders | Select. | Click here to enter text. |
| • Employees and contractors on human resources and labour management issues | Select. | Click here to enter text. |
| • Assessment and planning for cultural heritage issues | Select. | Click here to enter text. |
| • Assessment and planning for public health | Select. | Click here to enter text. |
| • Downstream flow regimes | Select. | Click here to enter text. |
| Engagement with resettlees has been culturally appropriate | Select. | Click here to enter text. | Engagement with resettlees and host communities has been inclusive and participatory | Select. | Click here to enter text. |
| Resettlees and host communities have been involved in the decision-making around relevant options and issues | Select. | Click here to enter text. |
| Public disclosure: | | | The assessment of project resilience has been publicly disclosed | Select. | Click here to enter text. |
| • the business makes significant project reports publicly available | Select. | Click here to enter text. |
| • the business publicly reports on project performance, in some sustainability areas | Select. | Click here to enter text. |
| • results of the assessment of strategic fit are publicly disclosed | Select. | Click here to enter text. |
| • power density calculations, estimated GHG emissions, and / or the results of a site-specific assessment have been publicly disclosed | Select. | Click here to enter text. |
| **Stakeholder Support** | | | | | |
| Affected communities generally support or have no major ongoing opposition to the plans for the issues that specifically affect their community | Select. | Click here to enter text. | Formal agreements with nearly all the directly affected communities have been reached for the mitigation, management and compensation measures relating to their communities | Select. | Click here to enter text. |
| Resettlees and host communities generally support or have no major on-going opposition to the Resettlement Action Plan | Select. | Click here to enter text. | There is consent with legally binding agreements by the resettlees and host communities for the Resettlement Action Plan | Select. | Click here to enter text. |
| Directly affected stakeholder groups generally support or have no major ongoing opposition to the cultural heritage assessment, planning or implementation measures | Select. | Click here to enter text. | Formal agreements with the directly affected stakeholder groups have been reached for cultural heritage management measures | Select. | Click here to enter text. |
| **Conformance and Compliance** | | | | | |
| Processes and objectives relating to communications and consultation have been and are on track to be met with: | | | There are no non-compliances | Select. | Click here to enter text. |
| • no major non-compliances | Select. | Click here to enter text. |
| • no major non-conformances | Select. | Click here to enter text. | There are no non-conformances | Select. | Click here to enter text. |
| Any communications related commitments have been or are on track to be met | Select. | Click here to enter text. |

| List of significant gaps against **Minimum Requirements** | Number of **Advanced Requirements** met |
| --- | --- |
| * 1. * 2. * 3. | Click here to enter text. |

| Summary of findings and other notable issues |
| --- |
| Click here to enter text. |

|  |  |
| --- | --- |
| Relevant evidence | |
| Interview | Click here to enter text. |
| Document | Click here to enter text. |
| Photo | Click here to enter text. |

# Hydrological Resource

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| **Scope and Principle** |
| This section addresses the hydrological resource availability and reliability to the project, reservoir planning and downstream flow regimes in relation to environmental, social and economic impacts and benefits. The principle is that the project’s planned power generation takes into account hydrological resource availability and reliability in the short- and long-term, and that the reservoir and downstream flow regimes are planned and managed with an awareness of environmental, social and economic objectives. |

|  |  |
| --- | --- |
| **Background** | |
| **Hydrology and flows** | |
| Average flow at dam (m3/s) | Click here to enter text. |
| Minimum monthly average flow (m3/s) | Click here to enter text. |
| Maximum monthly average flow (m3/s) | Click here to enter text. |
| Lowest observed flow (m3/s) | Click here to enter text. |
| Highest observed flow (m3/s) | Click here to enter text. |
| Design flow (m3/s) | Click here to enter text. |
| Affected river reaches (start/end and how affected) | Click here to enter text. |
| Proposed downstream flow regimes for environmental or social objectives | Click here to enter text. |
| **Reservoir** | |
| Reservoir length (km) | Click here to enter text. |
| Minimum operating level MOL (masl) | Click here to enter text. |
| Normal operating level (masl) | Click here to enter text. |
| Full supply level FSL (masl) | Click here to enter text. |
| Reservoir area at FSL (km2) | Click here to enter text. |
| Reservoir area at MOL (km2) | Click here to enter text. |
| Volume at FSL (million m3) | Click here to enter text. |
| Volume at MOL (million m3) | Click here to enter text. |
| Average retention time in days | Click here to enter text. |
| Number of days for filling | Click here to enter text. |
| **Other relevant information** | Click here to enter text. |

| **Minimum Requirements** | | | **Advanced Requirements** | | |
| --- | --- | --- | --- | --- | --- |
| **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** | **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** |
| **Assessment** | | | | | |
| Assessment of hydrological resource availability | Select. | Click here to enter text. | Issues that may impact on water availability or reliability have been comprehensively identified | Select. | Click here to enter text. |
| Hydrological resource assessment has been undertaken utilising: | | |
| • available data | Select. | Click here to enter text. |
| • field measurements | Select. | Click here to enter text. |
| • appropriate statistical indicators | Select. | Click here to enter text. |
| • a hydrological model | Select. | Click here to enter text. |
| Issues which may impact on water availability or reliability have been identified and factored into the modelling | Select. | Click here to enter text. | Hydrological uncertainties and risks have been extensively evaluated over the short- and long-term | Select. | Click here to enter text. |
| Hydrological resource assessment includes evaluation of scenarios, uncertainties and risks | Select. | Click here to enter text. |
| Assessment of important considerations prior to and during reservoir filling | Select. | Click here to enter text. | The reservoir assessment is based on dialogue with local community representatives | Select. | Click here to enter text. |
| Assessment of important considerations during reservoir operations | Select. | Click here to enter text. |
| Assessment of flow regimes downstream of project infrastructure | Select. | Click here to enter text. | The reservoir and flow regimes assessments take broad considerations, risks and opportunities into account | Select. | Click here to enter text. |
| Flow regimes assessment includes all potentially affected river reaches | Select. | Click here to enter text. |
| Flow regimes assessment includes identification of the flow ranges and variability to achieve different environmental, social and economic objectives | Select. | Click here to enter text. | The flows regimes assessment is based on field studies | Select. | Click here to enter text. |
| Flow regimes assessment is based on relevant scientific and other information | Select. | Click here to enter text. |
| **Management** | | | | | |
| Plans and processes for generation operations have been developed to ensure efficiency of water use | Select. | Click here to enter text. | Generation operations planning has a long-term perspective | Select. | Click here to enter text. |
| Plans and processes for generation operations are based on: | | |
| • analysis of the hydrological resource availability | Select. | Click here to enter text. | Generation operations planning takes into consideration multiple uses and integrated water resources management | Select. | Click here to enter text. |
| • a range of technical considerations | Select. | Click here to enter text. |
| • an understanding of power system opportunities and constraints | Select. | Click here to enter text. | Generation operations planning fully optimises and maximises efficiency of water use | Select. | Click here to enter text. |
| • social and environmental considerations including downstream flow regimes | Select. | Click here to enter text. |
| Plans and processes to manage reservoir preparation and filling have been developed | Select. | Click here to enter text. | Generation operations planning has the flexibility to anticipate and adapt to future changes | Select. | Click here to enter text. |
| Plans and processes to manage reservoir operations have been developed | Select. | Click here to enter text. |
| Plans and processes for delivery of downstream flow regimes have been developed | Select. | Click here to enter text. | Reservoir plans are based on dialogue with local community and government representatives | Select. | Click here to enter text. |
| Downstream flow plans include: | | |
| • flow objectives | Select. | Click here to enter text. | Processes are in place to anticipate and respond to emerging risks and opportunities | Select. | Click here to enter text. |
| • magnitude, range and variability of the flow regimes | Select. | Click here to enter text. |
| • locations at which flows will be verified | Select. | Click here to enter text. | Commitments in plans are public, formal and legally enforceable | Select. | Click here to enter text. |
| • ongoing monitoring | Select. | Click here to enter text. |
| Downstream flow plans, where formal commitments have been made, are publicly disclosed | Select. | Click here to enter text. |
| **Outcomes** | | | | | |
| Plans for downstream flows take into account environmental, social and economic objectives | Select. | Click here to enter text. | Plans for downstream flow regimes represent an optimal fit amongst environmental, social and economic objectives | Select. | Click here to enter text. |
| Where relevant, downstream flows take into account agreed transboundary objectives | Select. | Click here to enter text. |

| List of significant gaps against **Minimum Requirements** | Number of **Advanced Requirements** met |
| --- | --- |
| * 1. * 2. * 3. | Click here to enter text. |

| Summary of findings and other notable issues |
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| Relevant evidence | |
| Interview | Click here to enter text. |
| Document | Click here to enter text. |
| Photo | Click here to enter text. |

# Climate Change Mitigation and Resilience

|  |
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| **Scope and Principle** |
| This section addresses the estimation and management of the project’s greenhouse gas (GHG) emissions, analysis and management of the risks of climate change for the project, and the project’s role in climate change adaptation. The principle is that the project’s GHG emissions are consistent with low carbon power generation, the project is resilient to the effects of climate change, and the project contributes to wider adaptation to climate change. |

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| **Background** | |
| **Climate Change Mitigation** | |
| Capacity (MW) (or additional capacity in case of expansion/ rehabilitation projects) | Click here to enter text. |
| Average reservoir area (representing area of flooded land, net of pre-impoundment water body) (km2) (or additional reservoir area if any, for expansion/rehabilitation projects) | Click here to enter text. |
| Power density (W / m2) | Click here to enter text. |
| Emissions intensity (gCO2e / kWh) | Click here to enter text. |
| National and regional policies, plans and commitments relevant to mitigation | Click here to enter text. |
| **Climate Change Resilience** | |
| Hydrological data available for the project site and the basin, and observed climate trends | Click here to enter text. |
| Regional and basin-level climate models relevant to the project location, if any | Click here to enter text. |
| Any climate change predictions for the project location, and degree of consistency | Click here to enter text. |
| National policies, plans and commitments relevant to adaptation and resilience | Click here to enter text. |
| **Other relevant information** | Click here to enter text. |

| **Minimum Requirements** | | | **Advanced Requirements** | | |
| --- | --- | --- | --- | --- | --- |
| **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** | **Requirement is met: yes (✔) or no (✖)** | | **Findings and Observations** |
| **Assessment** | | | | | |
| **Climate Change Mitigation** | | | | | |
| For projects with a power density below 5 W/m2, net GHG emissions (gCO2e) of electricity generation have been estimated and independently verified | Select. | Click here to enter text. | If a site-specific assessment is required, it incorporates a broad range of scenarios, uncertainties and risks | Select. | Click here to enter text. |
| For projects with a power density below 5 W/m2 and estimated emissions are above 100 gCO2e/kWh, a site-specific assessment of GHG emissions has been undertaken | Select. | Click here to enter text. |
| An assessment of the project’s fit with national and/or regional policies and plans on mitigation has been undertaken | Select. | Click here to enter text. |
| **Climate Change Resilience** | | | | | |
| An assessment of the project’s resilience to climate change has been undertaken | Select. | Click here to enter text. | Assessment of resilience incorporates sensitivity analysis and project-specific hydrological modelling using recognised climate models | Select. | Click here to enter text. |
| The assessment: | | |
| • incorporates an assessment of plausible climate change at the project site | Select. | Click here to enter text. |
| • identifies a range of climatological and hydrological conditions at the project site | Select. | Click here to enter text. |
| • applies these conditions in a documented risk assessment or stress test | Select. | Click here to enter text. |
| The risk assessment or stress test encompasses: | | |
| • dam safety | Select. | Click here to enter text. |
| • other infrastructural resilience | Select. | Click here to enter text. |
| • environmental and social risks | Select. | Click here to enter text. |
| • power generation availability | Select. | Click here to enter text. |
| An assessment of the project’s potential adaptation services and fit with national and/or regional policies and plans for adaptation has been undertaken | Select. | Click here to enter text. |
| **Management** | | | | | |
| **Climate Change Mitigation** | | | | | |
| If GHG emissions estimates assume design and management measures, there are plans to put these measures in place | Select. | Click here to enter text. | Design and management measures have been developed for implementation and operation phases of the project to respond to risks and opportunities including offsetting emissions | Select. | Click here to enter text. |
| Plans have been developed to monitor parameters used in GHG emissions estimates or to monitor GHG stocks | Select. | Click here to enter text. |
| **Climate Change Resilience** | | | | | |
| The project design is based on plausible climate change scenarios | Select. | Click here to enter text. | Resilience measures take account of a broad range of risks and inter-relationships | Select. | Click here to enter text. |
| Processes are in place to respond to unanticipated climate change | Select. | Click here to enter text. |
| Structural and operational measures are planned for design, implementation and operation phases to avoid or reduce the identified climate risks | Select. | Click here to enter text. | Plans have been developed to provide adaptation services if necessary | Select. | Click here to enter text. |
| **Outcomes** | | | | | |
| **Climate Change Mitigation** | | | | | |
| The project’s GHG emissions are demonstrated to be consistent with low carbon power generation | Select. | Click here to enter text. | Project net emissions are minimised or project operations facilitate system emissions reductions | Select. | Click here to enter text. |
| The fit of the project with national and regional policies and plans for mitigation can be demonstrated | Select. | Click here to enter text. |
| **Climate Change Resilience** | | | | | |
| Plans will deliver a project that is resilient to climate change under a range of scenarios | Select. | Click here to enter text. | The project is resilient under a broad range of scenarios | Select. | Click here to enter text. |
| The fit of the project with national and regional policies and plans for adaptation can be demonstrated | Select. | Click here to enter text. | The project will contribute to climate change adaptation at local, regional or national levels | Select. | Click here to enter text. |

| List of significant gaps against **Minimum Requirements** | Number of **Advanced Requirements** met |
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| Summary of findings and other notable issues |
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| Relevant evidence | |
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| Document | Click here to enter text. |
| Photo | Click here to enter text. |

Appendix 1 – Interviews

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| **Ref** | **Interviewee/s, Position** | **Organisation** | **Date** | **Location** |
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Appendix 2 – Documents

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| **Ref** | **Author** | **Year** | **Title** | **Notes / links / language** |
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Appendix 3 – Photographs

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| Photo 1: Click here to enter text. | Photo 2: Click here to enter text. | Photo 3: Click here to enter text. |
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| Photo 3: Click here to enter text. | Photo 5: Click here to enter text. | Photo 6: Click here to enter text. |