

# WIND ENERGY PROJECT IN HARAPANAHALLI, KARNATAKA



Document Prepared By CLP Wind Farms (India) Private Limited

|                      |                                                                                                                                                                                                                                                                                                                                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Project Title</b> | Wind Energy Project in Harapanahalli, Karnataka                                                                                                                                                                                                                                                                                 |
| <b>Version</b>       | 03                                                                                                                                                                                                                                                                                                                              |
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## Table of Contents

|        |                                                                       |    |
|--------|-----------------------------------------------------------------------|----|
| 1      | Project Details .....                                                 | 3  |
| 1.1    | Summary Description of the Project .....                              | 3  |
| 1.2    | Sectoral Scope and Project Type.....                                  | 3  |
| 1.3    | Project Proponent .....                                               | 3  |
| 1.4    | Other Entities Involved in the Project .....                          | 4  |
| 1.5    | Project Start Date .....                                              | 4  |
| 1.6    | Project Crediting Period .....                                        | 4  |
| 1.7    | Project Scale and Estimated GHG Emission Reductions or Removals ..... | 4  |
| 1.8    | Description of the Project Activity .....                             | 5  |
| 1.9    | Project Location .....                                                | 5  |
| 1.10   | Conditions Prior to Project Initiation.....                           | 6  |
| 1.11   | Compliance with Laws, Statutes and Other Regulatory Frameworks.....   | 6  |
| 1.12   | Ownership and Other Programs .....                                    | 7  |
| 1.12.1 | Right of Use .....                                                    | 7  |
| 1.12.2 | Emissions Trading Programs and Other Binding Limits.....              | 7  |
| 1.12.3 | Other Forms of Environmental Credit .....                             | 7  |
| 1.12.4 | Participation under Other GHG Programs .....                          | 7  |
| 1.12.5 | Projects Rejected by Other GHG Programs.....                          | 7  |
| 1.13   | Additional Information Relevant to the Project .....                  | 7  |
| 2      | Application of Methodology .....                                      | 8  |
| 2.1    | Title and Reference of Methodology .....                              | 8  |
| 2.2    | Applicability of Methodology.....                                     | 8  |
| 2.3    | Project Boundary.....                                                 | 8  |
| 2.4    | Baseline Scenario .....                                               | 9  |
| 2.5    | Additionality.....                                                    | 9  |
| 2.6    | Methodology Deviations .....                                          | 9  |
| 3      | Quantification of GHG Emission Reductions and Removals.....           | 10 |
| 3.1    | Baseline Emissions.....                                               | 10 |
| 3.2    | Project Emissions .....                                               | 10 |
| 3.3    | Leakage .....                                                         | 10 |
| 3.4    | Net GHG Emission Reductions and Removals.....                         | 10 |
| 4      | Monitoring .....                                                      | 11 |
| 4.1    | Data and Parameters Available at Validation .....                     | 11 |
| 4.2    | Data and Parameters Monitored .....                                   | 11 |
| 4.3    | Monitoring Plan.....                                                  | 12 |
| 5      | Environmental Impact.....                                             | 13 |
| 6      | Stakeholder Comments .....                                            | 13 |
|        | APPENDIX X: <title of appendix> .....                                 | 14 |

## 1 PROJECT DETAILS

### 1.1 Summary Description of the Project

CLP Wind Farms (India) Private Limited (CLPWFPL) has implemented a wind power project of capacity 39.6 MW comprising of 24 number of Wind Turbine Generators (WTGs), each with rated capacity of 1650 kW. The project area is spread across 4 villages - Harakanalu, Arsanahalu, Hyarada, Dasanahalli which are part of Harapanahalli Taluk of Davangere District in the State of Karnataka. The electricity generated from the Project activity is sold to the local electricity distribution company in the state.

The Project activity is a new facility (Greenfield) and it plans to utilize wind energy to generate electricity and supply it to distribution licences which is a part of the Southern Grid of India. In the absence of Project activity, quantity of the electricity that would be delivered by the Project activity to the Southern grid would be sourced from the existing grid-connected power plants and future capacity additions to meet the growing electricity requirements. Hence, generation mix of Southern grid is considered as the baseline scenario.

The first WTG under this project has stated commissioning since 21-January-2011 and has been under operation since then except for regular shutdowns considering O&M requirements.

The project was registered at UNFCCC (Ref. No. 6390) on 22-June-2012 and the details of the same can be viewed on <http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1339417262.04/view>

### 1.2 Sectoral Scope and Project Type

**Sectoral Scope :** 01 Energy Industries (renewable-'non renewable)  
**Project Type :** Type 1 Renewable Energy Projects  
**Project Category :** ACM0002 version 12.3.0  
**Tool :** Tool for the demonstration and assessment of additionality (Version 06.0.0, EB 65)  
 Tool to calculate the emission factor for an electricity system (Version 02 EB 50)

### 1.3 Project Proponent

|                   |                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------|
| Organization name | CLP Wind Farms (India) Private Limited                                                                               |
| Contact person    | Mr. Dipjay Sanchania                                                                                                 |
| Title             | Head – CDM                                                                                                           |
| Address           | 15 <sup>th</sup> Floor, Oberoi Commerz,<br>Off. Western Express Highway,<br>Goregaon (E),<br>Mumbai 400 063<br>India |

|           |                                                            |
|-----------|------------------------------------------------------------|
| Telephone | + 91 22 6758 8888                                          |
| Email     | <a href="mailto:carbon@clpindia.in">carbon@clpindia.in</a> |

## 1.4 Other Entities Involved in the Project

|                     |                |
|---------------------|----------------|
| Organization name   | Not Applicable |
| Role in the project | Not Applicable |
| Contact person      | Not Applicable |
| Title               | Not Applicable |
| Address             | Not Applicable |
| Telephone           | Not Applicable |
| Email               | Not Applicable |

## 1.5 Project Start Date

21-Jan-2011, being the date of commissioning of first WEG installed under the project activity.

## 1.6 Project Crediting Period

Crediting Period: 10 years 0 months (renewable twice)

Start Date of Crediting Period: 21-January-2011

End Date of Crediting Period: 20-January-2021

The project proponent is undertaking the same project activity under CDM<sup>1</sup> however VCU's shall be claimed till 31-May-2013. The Project Proponent confirms that the Project is also registered under CDM<sup>2</sup> on 22-June-2012 and they will claim emissions reductions from the Project only in one mechanism for a particular period to avoid double counting.

All days considered under this monitoring period are not part of Project's CDM monitoring period, which start from 01-June-2013.

## 1.7 Project Scale and Estimated GHG Emission Reductions or Removals

| Project Scale |                                                                                                                                                               |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project       | Project activity falls under this category as estimated GHG emission reduction are below 300,000 tones of CO <sub>2</sub> e per year as shown in below table. |
| Large project | Not applicable.                                                                                                                                               |

<sup>1</sup> <http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1339417262.04/view>

<sup>2</sup> <http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1339417262.04/view>

| Year                                   | Estimated GHG emission reductions or removals (tCO <sub>2</sub> e) |
|----------------------------------------|--------------------------------------------------------------------|
| 2011                                   | 72,834                                                             |
| 2012                                   | 72,834                                                             |
| 2013                                   | 72,834                                                             |
| 2014                                   | 72,834                                                             |
| 2015                                   | 72,834                                                             |
| 2016                                   | 72,834                                                             |
| 2017                                   | 72,834                                                             |
| 2018                                   | 72,834                                                             |
| 2019                                   | 72,834                                                             |
| 2020                                   | 72,834                                                             |
| <b>Total estimated ERs</b>             | 728,340                                                            |
| <b>Total number of crediting years</b> | 10                                                                 |
| <b>Average annual ERs</b>              | 72,834                                                             |

## 1.8 Description of the Project Activity

Please refer section A.4.2 of the registered PDD for technical specification and Section B.5 for date of Commissioning. The PDD can be found at this link.

<http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1339417262.04/view>

## 1.9 Project Location

Villages : Harakanalu, Arsanahalu, Hyarada, Dasanahalli

Taluka : Harapanahalli

District : Davangere

State : Karnataka

Host Party : India

The Project activity is located in the Harapanahalli taluka of Davangere district in Karnataka. The coordinates of individual WEGs of this site are as below:

| Serial No | WTG ID | Commissioning date | Latitude       | Longitude      |
|-----------|--------|--------------------|----------------|----------------|
| 1         | H 28   | 21-January-2011    | 14°50' 00.1"N  | 75°48' 46.3" E |
| 2         | H 29   | 21-January-2011    | 14°50' 17.2" N | 75°48' 37.5 "E |
| 3         | H 30   | 21-January-2011    | 14°50' 26.2" N | 75°48' 44.1 "E |
| 4         | H 31   | 21-January-2011    | 14°50' 37.6" N | 75°48' 37.3 "E |
| 5         | H 32   | 21-January-2011    | 14°50' 42.2" N | 75°48' 22.1 "E |
| 6         | H 33   | 21-January-2011    | 14°50' 50.3" N | 75°48' 17.2 "E |
| 7         | H 34   | 21-January-2011    | 14°50' 47.4" N | 75°48' 35.7 "E |
| 8         | H 35   | 21-January-2011    | 14°51' 00.5" N | 75°48' 33.2 "E |
| 9         | H 15   | 25-February-2011   | 14°48' 20.5" N | 75°50' 36. 5"E |
| 10        | H 16   | 25-February-2011   | 14°48' 31.6" N | 75°50' 25 .8"E |
| 11        | H 17   | 25-February-2011   | 14°48' 42.6" N | 75°50' 21.2"E  |
| 12        | H 18   | 25-February-2011   | 14°48' 50.1" N | 75°50' 24.4"E  |
| 13        | H 19   | 25-February-2011   | 14°48' 36.9" N | 75°49' 47.5"E  |
| 14        | H 20   | 25-February-2011   | 14°48' 47.8" N | 75°49' 43.2"E  |
| 15        | H 21   | 25-February-2011   | 14°49' 07.4" N | 75°49' 42.0"E  |
| 16        | H 22   | 25-February-2011   | 14°49' 16.4" N | 75°49' 46.1"E  |
| 17        | H 23   | 25-February-2011   | 14°49' 24.1" N | 75°49' 42.5"E  |
| 18        | H 24   | 25-February-2011   | 14°49' 19.3" N | 75°49' 22.7"E  |
| 19        | H 25   | 25-February-2011   | 14°49' 37.0" N | 75°49' 14.7"E  |
| 20        | H 26   | 25-February-2011   | 14°49' 50.4" N | 75°49' 12.6"E  |
| 21        | H 27   | 25-February-2011   | 14°49' 43.7" N | 75°48' 50.4"E  |
| 22        | H 36   | 25-February-2011   | 14°51' 13.9" N | 75°48' 08.0"E  |
| 23        | H 37   | 25-February-2011   | 14°51' 24.7" N | 75°47' 59.6"E  |
| 24        | H 38   | 25-February-2011   | 14°51' 33.0" N | 75°47' 54.5"E  |

## 1.10 Conditions Prior to Project Initiation

This is a Greenfield project. The project activity replaces the carbon intensive grid electricity. Thereby reducing the dependence on fossil fuel based generation units and as there are no associated emissions with this project it contributes to the reduction of green house gases (GHG) emissions. Please refer section A.1 and B.4 of the registered PDD. The PDD can be found at this web link mentioned below:

<http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1339417262.04/view>

## 1.11 Compliance with Laws, Statutes and Other Regulatory Frameworks

The project activity is not mandated by any local or national laws. Please refer section B.5 of the UNFCCC registered CDM project with Ref No: 6390

## 1.12 Ownership and Other Programs

### 1.12.1 Right of Use

For the ownership details of the project any of the following may be referred to:

- Commissioning certificates is issued by Karnataka Power Transmission company Limited
- Power purchase agreement is signed between Bangalore Electricity supply company limited, and CLP Wind Farms (India) Private Limited

### 1.12.2 Emissions Trading Programs and Other Binding Limits

India is Non-annex country and there is no compliance with an emission trading program or to meet binding limits on GHG emissions for this project activity.

### 1.12.3 Other Forms of Environmental Credit

The project activity generates Carbon Credits under Clean Development Mechanism (Ref.No:6390) from 01/06/2013. However the VCUs that are claimed are from the date of commissioning till 31/05/2013. We hereby confirm that the project activity does not result in creation of another form of environmental credit during the period for which VCUs are claimed.

### 1.12.4 Participation under Other GHG Programs

This is registered CDM project. The reference no. for the project is 6390 and it was registered on 22-June-2012. Please refer to the registered PDD. The web link for the same is mentioned below:  
<http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1339417262.04/view>

### 1.12.5 Projects Rejected by Other GHG Programs

This project has not been rejected by any other GHG program. It is registered CDM project and the emission reductions are being claimed for the period 21-January-2011 to 31-May-2013

## 1.13 Additional Information Relevant to the Project

### Eligibility Criteria

This is not a grouped project hence the criteria is not applicable.

### Leakage Management

No leakage emissions are considered for this Project activity since no energy generating equipment is transferred from another activity and/or the existing equipment is transferred to another activity. Please refer section B.6.1. of the registered PDD. The PDD can be found at web link mentioned below:

<http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1339417262.04/view>

### Commercially Sensitive Information

There is no such information which is deemed as commercially sensitive.

## Further Information

Not Applicable

## 2 APPLICATION OF METHODOLOGY

### 2.1 Title and Reference of Methodology

*Provide the title, reference and version number of the methodology or methodologies applied to the project. Include also the title and version number of any tools applied by the project.*

### 2.2 Applicability of Methodology

*Demonstrate and justify how the project activity(s) meets each of the applicability conditions of the methodology(s), and tools (where applicable) applied by the project. Address each applicability condition separately.*

### 2.3 Project Boundary

*Define the project boundary and identify the relevant GHG sources, sinks and reservoirs for the project and baseline scenarios (including leakage if applicable).*

| Source   |          | Gas              | Included? | Justification/Explanation |
|----------|----------|------------------|-----------|---------------------------|
| Baseline | Source 1 | CO <sub>2</sub>  |           |                           |
|          |          | CH <sub>4</sub>  |           |                           |
|          |          | N <sub>2</sub> O |           |                           |
|          |          | Other            |           |                           |
|          | Source 2 | CO <sub>2</sub>  |           |                           |
|          |          | CH <sub>4</sub>  |           |                           |
|          |          | N <sub>2</sub> O |           |                           |
|          |          | Other            |           |                           |
| Project  | Source 1 | CO <sub>2</sub>  |           |                           |
|          |          | CH <sub>4</sub>  |           |                           |
|          |          | N <sub>2</sub> O |           |                           |
|          |          | Other            |           |                           |
|          | Source 2 | CO <sub>2</sub>  |           |                           |
|          |          | CH <sub>4</sub>  |           |                           |
|          |          | N <sub>2</sub> O |           |                           |
|          |          | Other            |           |                           |

*In addition to the table, provide a diagram or map of the project boundary, showing clearly the physical locations of the various installations or management activities taking place as part of the project activity based on the description provided in Section 1.8 (Description of the Project Activity) above.*

*For non-AFOLU projects, include in the diagram the equipment, systems and flows of mass and energy. Include the GHG emission sources identified in the project boundary.*

*For AFOLU projects, include in the diagram or map the locations of where the various measures are taking place, any reference areas and leakage belts.*

## 2.4 Baseline Scenario

*Identify and justify the baseline scenario, in accordance with the procedure set out in the applied methodology and any relevant tools. Where the procedure in the applied methodology involves several steps, describe how each step is applied and clearly document the outcome of each step.*

*Explain and justify key assumptions, rationale and methodological choices. Provide all relevant references.*

## 2.5 Additionality

*Demonstrate and assess the additionality of the project, in accordance with the applied methodology and any relevant tools, taking into account of the following:*

- *Where a project method is applied to demonstrate additionality and the procedure in the applied methodology or tool involves several steps, describe how each step is applied and clearly document the outcome of each step. Indicate clearly the method selected to demonstrate additionality (eg, investment analysis or barrier analysis in the case of the CDM Tool for the demonstration and assessment of additionality). Where barrier analysis, or equivalent, is used to demonstrate additionality, only include the most relevant barriers. Justify the credibility of the barriers with key facts and/or assumptions and the rationale. Provide all relevant references.*
- *Where a performance method is applied to demonstrate additionality, demonstrate that performance can be achieved to a level at least equivalent to the performance benchmark metric.*
- *Where the methodology applies an activity method for the demonstration of additionality, use this section to demonstrate regulatory surplus (only) and include a statement that notes that conformance with the positive list is demonstrated in the Applicability of Methodology section above.*

*Provide sufficient information (including all relevant data and parameters, with sources) so that a reader can reproduce the additionality analysis and obtain the same results.*

## 2.6 Methodology Deviations

*Describe and justify any methodology deviations. Include evidence to demonstrate the following:*

- The deviation will not negatively impact the conservativeness of the quantification of GHG emission reductions or removals.
- The deviation relates only to the criteria and procedures for monitoring or measurement, and does not relate to any other part of the methodology.

### 3 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

#### 3.1 Baseline Emissions

*Describe the procedure for quantification of baseline emissions and/or removals in accordance with the applied methodology. Include all relevant equations, and explain and justify all relevant methodological choices (eg, with respect to selection of emission factors and default values).*

#### 3.2 Project Emissions

*Describe the procedure for quantification of project emissions and/or removals in accordance with the applied methodology. Include all relevant equations, and explain and justify all relevant methodological choices (eg, with respect to selection of emission factors and default values).*

#### 3.3 Leakage

*Describe the procedure for quantification of leakage emissions in accordance with the applied methodology. Include all relevant equations, and explain and justify all relevant methodological choices (eg, with respect to selection of emission factors and default values).*

#### 3.4 Net GHG Emission Reductions and Removals

*Describe the procedure for quantification of net GHG emission reductions and removals. Include all relevant equations. For AFOLU projects, include equations for the quantification of net change in carbon stocks.*

*Provide the ex-ante calculation (estimate) of baseline emissions/removals, project emissions/removals, leakage emissions and net GHG emission reductions and removals in the table below.*

*For data and parameters monitored, use estimates. Document how each equation is applied, in a manner that enables the reader to reproduce the calculation. Provide example calculations for all key equations, to allow the reader to reproduce the calculation of estimated net GHG emission reductions or removals.*

| Year   | Estimated baseline emissions or removals (tCO <sub>2</sub> e) | Estimated project emissions or removals (tCO <sub>2</sub> e) | Estimated leakage emissions (tCO <sub>2</sub> e) | Estimated net GHG emission reductions or removals (tCO <sub>2</sub> e) |
|--------|---------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------|
| Year A |                                                               |                                                              |                                                  |                                                                        |

|              |  |  |  |  |
|--------------|--|--|--|--|
| Year B       |  |  |  |  |
| Year C       |  |  |  |  |
| Year...      |  |  |  |  |
| <b>Total</b> |  |  |  |  |

## 4 MONITORING

### 4.1 Data and Parameters Available at Validation

Complete the table below for all data and parameters that are determined or available at validation, and remain fixed throughout the project crediting period (copy the table as necessary for each data/parameter). Data and parameters monitored during the operation of the project are included in Section 4.2 (Data and Parameters Monitored) below.

|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data / Parameter                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Data unit                                                                                    | Indicate the unit of measure                                                                                                                                                                                                                                                                                                                                                                                                             |
| Description                                                                                  | Provide a brief description of the data/parameter                                                                                                                                                                                                                                                                                                                                                                                        |
| Source of data                                                                               | Indicate the source(s) of data                                                                                                                                                                                                                                                                                                                                                                                                           |
| Value applied:                                                                               | Provide the value applied                                                                                                                                                                                                                                                                                                                                                                                                                |
| Justification of choice of data or description of measurement methods and procedures applied | Justify the choice of data source, providing references where applicable. Where values are based on measurement, include a description of the measurement methods and procedures applied (eg, what standards or protocols have been followed), indicate the responsible person/entity that undertook the measurement, the date of the measurement and the measurement results. More detailed information may be provided in an appendix. |
| Purpose of Data                                                                              | Indicate one of the following: <ul style="list-style-type: none"> <li>Determination of baseline scenario (AFOLU projects only)</li> <li>Calculation of baseline emissions</li> <li>Calculation of project emissions</li> <li>Calculation of leakage</li> </ul>                                                                                                                                                                           |
| Comments                                                                                     | Provide any additional comments                                                                                                                                                                                                                                                                                                                                                                                                          |

### 4.2 Data and Parameters Monitored

Complete the table below for all data and parameters that will be monitored during the project crediting period (copy the table as necessary for each data/parameter). Data and parameters determined or available at validation are included in Section 4.1 (Data and Parameters Available at Validation) above.

|                  |                              |
|------------------|------------------------------|
| Data / Parameter |                              |
| Data unit        | Indicate the unit of measure |

|                                                                 |                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                                                     | <i>Provide a brief description of the data/parameter</i>                                                                                                                                                                                                                                                 |
| Source of data                                                  | <i>Indicate the source(s) of data</i>                                                                                                                                                                                                                                                                    |
| Description of measurement methods and procedures to be applied | <i>Specify the measurement methods and procedures, any standards or protocols to be followed, and the person/entity responsible for the measurement. Include any relevant information regarding the accuracy of the measurements (eg, accuracy associated with meter equipment or laboratory tests).</i> |
| Frequency of monitoring/recording                               | <i>Specify measurement and recording frequency</i>                                                                                                                                                                                                                                                       |
| Value applied:                                                  | <i>Provide an estimated value for the data/parameter</i>                                                                                                                                                                                                                                                 |
| Monitoring equipment                                            | <i>Identify equipment used to monitor the data/parameter including type, accuracy class, and serial number of equipment, as appropriate.</i>                                                                                                                                                             |
| QA/QC procedures to be applied                                  | <i>Describe the quality assurance and quality control (QA/QC) procedures to be applied, including the calibration procedures where applicable.</i>                                                                                                                                                       |
| Purpose of data                                                 | <i>Indicate one of the following:</i> <ul style="list-style-type: none"> <li><i>Calculation of baseline emissions</i></li> <li><i>Calculation of project emissions</i></li> <li><i>Calculation of leakage</i></li> </ul>                                                                                 |
| Calculation method                                              | <i>Where relevant, provide the calculation method, including any equations, used to establish the data/parameter.</i>                                                                                                                                                                                    |
| Comments                                                        | <i>Provide any additional comments</i>                                                                                                                                                                                                                                                                   |

## 4.3 Monitoring Plan

*Describe the process and schedule for obtaining, recording, compiling and analyzing the monitored data and parameters set out in Section 4.2 (Data and Parameters Monitored) above. Include details on the following:*

- The methods for measuring, recording, storing, aggregating, collating and reporting data and parameters. Where relevant, include the procedures for calibrating monitoring equipment.*
- The organizational structure, responsibilities and competencies of the personnel that will be carrying out monitoring activities.*
- The policies for oversight and accountability of monitoring activities.*
- The procedures for internal auditing and QA/QC.*
- The procedures for handling non-conformances with the validated monitoring plan.*
- Any sampling approaches used, including target precision levels, sample sizes, sample site locations, stratification, frequency of measurement and QA/QC procedures.*

*Where appropriate, include line diagrams to display the GHG data collection and management system.*

### **5 ENVIRONMENTAL IMPACT**

*Summarize any environmental impact assessments carried out with respect to the project, where applicable.*

### **6 STAKEHOLDER COMMENTS**

*Summarize relevant outcomes from any stakeholder consultations and mechanisms for on-going communication.*

### **APPENDIX X: <TITLE OF APPENDIX>**

*Use appendices for supporting information. Delete this appendix (title and instructions) where no appendix is required.*