

Darwin Initiative Annual Report

Darwin Project Information

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| Project Ref Number | 15/041 |
| Project Title | Waria Valley Community Conservation and Alternative Livelihoods Programme |
| Country(ies) | Papua New Guinea |
| UK Contract Holder Institution | Coral Cay Conservation |
| UK Partner Institution(s) | Jaquelin Fisher Associates Ltd |
| Host country Partner Institution(s) | Forestry Research Institute, University of Technology, Bris Kanda, Village Development Trust. |
| Darwin Grant Value | £130,000 |
| Start/End dates of Project | May 2006 – April 2009 |
| Reporting period (1 Apr 200x to 31 Mar 200y) and annual report number (1,2,3..) | May 2006 – April 2007 |
| Project Leader Name | James Sawyer |
| Project website | www.coralcay.org |
| Author(s), date | James Sawyer/ Dr Craig Turner/ Alexia Tamblyn 12/04/07 |

1. Project Background

The Darwin Initiative Programme is a collaborative project between Coral Cay Conservation (CCC) and Jaquelin Fisher Associates Ltd (JFA Ltd) working in partnership with the people of the Waria Valley (Papua New Guinea) through their development arm organisation, Bris Kanda (BK Inc) and additional partners, to initiate the development of alternative sustainable livelihood options within the locally owned forest areas of the Waria Valley. This is coupled with enhanced environmental education and training programmes, focused on contributing to the conservation and sustainable use of their forest resources.

The aims of the Darwin Project include biodiversity assessments of the forest resources of the Waria Valley (including inventories of two traditionally important timber species: *Campospermum brevipetiolata* and *Hernandia ovigera*); development of a GIS-based decision support system; implementation of community vegetation nurseries for restoration work; the initiation of alternative livelihood schemes (including small scale forestry and eco-tourism). This is coupled with environmental education, training and local capacity building programmes within the target communities. The aim is to achieve local sustainable development based on benefits derived for local landowners from local forest biodiversity.

The project is based in the Morobe province of Papua New Guinea in the Waria Valley. This project location is accessible by boat from the provincial capital of Lae (journey time approx seven hours) and is working with several communities within the valley.

The overriding objective of this project is to produce integrated community-driven management plans for the conservation, restoration and sustainable use of biodiversity in the Waria Valley watershed. This is a unique programme that aims to balance the environmental, social and economic needs of the Waria Valley.



2. Project Partnerships

CCC has continued to develop close ties with its existing project partners, both within the UK and in PNG. The Forestry Research Institute (FRI), with Cossey Yosi leading the in country project coordination and development. Cossey has continued to engender strong support from both the staff at FRI and within other partner organisations including the University of Technology (UniTech in Lae), Briskanda as well as the communities within the Waria Valley. As Cossey is from the Waria Valley he provides a valuable link to the community and insight to the social and cultural mores of the region.

The people from the Waria Valley are the core beneficiaries of this programme and as such are the main stakeholders. Their enthusiasm and drive has been key to the foundation of the programme. The scoping reports and in depth stakeholder consultations have provided the project with confirmation that support and practical help are still readily available and have also helped to focus and consolidate the programme. The communities have become organised developing working groups (clan groups, womens groups, education groups) to help with the specific aims of the project and to ensure long term success. Visa restrictions have resulted in less UK staff on site in the Valley, but happily this situation has now been remedied.

Bris Kanda Inc (formally Morobe Bris Kanda) have continued their support and have specifically defined their role within the programme. Lukis Romaso, Director Bris Kanda, wants Bris Kanda to work with the communities focusing on training and development of the alternative livelihoods programme. Marketing, management skills and accounting are also to be taught as part of the wider alternative livelihoods development process. Bris Kanda are still supporting the project and project staff through the provision of transport to and from the valley.

The Village Development Trust has undergone a downsizing operation due to lack of significant funding. They are, however, keen to use their expertise and knowledge of alternative livelihoods development, especially those of ecotourism, to support the project. Bris Kanda and VDT will work with the programme in these areas.

UniTech and FRI have been especially keen to develop the biodiversity training courses, or 'scholars' programme, that forms an integral part of the programme. This part of the programme aims to train 'biodiversity champions' with the knowledge of surveying, monitoring and understanding of biodiversity in PNG, empowering Papua New Guinean nationals to be able to make informed decisions regarding biodiversity and sustainable management. Manuals for both the field training and a lecture series for this programme have been developed and submitted to FRI and Unitech. The response to this has been extremely positive.

JFA Ltd have been a highly supportive partner to CCC in the first year of the project, providing technical expertise and personnel both in the UK and for field visits. JFA and CCC have developed training materials for the scholars programmes, developed education materials for schools within the Waria Valley and have established a biodiversity surveying programme.

CCC has built on its own capacity to be effective as a project partner with focus on maintaining information flows to partners, chairing project partner discussions and meetings where appropriate and offering guidance and decision making where necessary.

The project is in the process of developing links with other institutions with other organisations to assess the potential for expanding the scope of the project further. The project has also developed additional links with the University of PNG to support further GIS work.

3. Project progress

The progress of the project has been excellent during the first year and all first year objectives have been met or surpassed. The initial planning and promotion phase was completed in a shorter timescale with press releases issued not long after the start of the project in May.

Two international field staff were recruited via an advertising campaign and round of interviewing which was undertaken in conjunction with JFA Ltd. The two UK nationals were recruited and subsequently applied for work visas for PNG to enter and progress the project. Sadly due to issues relating to other NGO's in PNG agitating at government corruption in the logging industry, all conservation applications were put on hold. It was only through ministerial links created through planning visits that working visas were granted over six months after application. The staff are now in country but the lag in the arrival caused some problems for the flow of the project timelines. Largely this problem was solved by employing local specialists to undertake specific pieces of work to achieve the objectives stated.

In addition to international staff it was decided that the project should employ a PNG national as a science officer for the project to maximise benefit to the host country and to ensure that the community felt there was a national as well as international interest. This individual was interviewed by a member of JFA staff and the in country co-ordinator and the role was offered. The individual is now working on the project.

The securing of resources and expertise in country was widely achieved through the holding of two stakeholder forums and both were successful. The first was held in September and was represented by all project partners including JFA and CCC from the UK. This forum sought to develop a memorandum of understanding between partners and to get this sign and pledged to. The second forum occurred in February and was attended by all project partners bar CCC. Coral Cay were represented at the meeting by a Senior Ecologist from JFA Ltd (who was attending on behalf of JFA Ltd), this meeting was staged to assess the progress of the project after its first nine months and to help with the planning process for the second year of the project.

The promotion of the scholarship scheme for PNG nationals was agreed to be co-ordinated by the University of Technology (known locally as UniTech). They have been promoting this programme and developing the ability to provide the project with volunteer scholars. It is hoped that in year two and three that the project will attract many applications for the opportunity to work within the Waria Valley. Scholar training has been initiated and is ongoing.

Biodiversity and vegetation plans were created in late 2006 and these were developed with the input of overseas partners. At the same time JFA Ltd produced the projects educational materials including primary and secondary teaching materials and teacher packs.

The educational materials were disseminated in February for consultation with the educational system of the area and have since been further enhanced based on the feedback received and a development of a better understanding of the needs for such documents.

Field equipment was procured and transported to PNG in September of 2006 and currently stored at the project location and the responsibility of the project staff. The project partners managed to arrange the construction of a field house for the team in one of the villages and at the same time arrange a location of the Eco Tourism centre. Funds have been allocated for the development of this which will continue into year two of the project.

The project was officially launched in September 2006 with the official signing of the memorandum of understanding at the Forestry Research Institute in Lae, Papua New Guinea. All project partners were represented including JFA and CCC and the ceremony was presided over by the Honourable Sasa Zibe – Minister for Agriculture and Livestock (former Minister of the Environment). The launch included both international and local press releases and the project was covered in the national press and radio in Papua New Guinea.

An initial scoping survey visit was conducted in the first six months of the project and was undertaken by staff of FRI and local people. This opportunity allowed the creation of survey plans but also allowed for local stakeholder meetings to discuss alternative livelihood potential and community interest in these initiatives.

Consultation has occurred on the development of a marketing plan for the ecotourism initiative and this was wholly successful. This plan is still in development due to the change in responsibilities in the partnerships with Bris Kanda and VDT and the desire was to continue the process of consultation to allow for the development of the new partnerships and to include partners wishes and commitments. On completion of this process, CCC's marketing team will produce the plan for the initiative.

During the second visit by JFA staff guide training was initiated and the development of community vegetation nurseries were overseen. Land was identified for this purpose and the community groups were engaged in preparing for the development of these areas.

The work programme for year one, as completed to date, has been able to contribute to all proposed outputs of the project (Annex 1), as detailed in the original logical framework (Annex 2). A significant proportion of the year one measurable indicators have been achieved, and only their timing of achievement has had to be revised in a few instances.

3.1 Progress in carrying out project activities

Please report on the progress in implementing the projects activities for this year. **Please report activities under the outputs** that they contribute towards. Have the activities been carried out in the manner and time planned?

Forest biodiversity resource assessment programme.

- Survey plans have been established for the forthcoming year which will be implemented in May
- Community and clan owned local sites have also been selected for biodiversity research and for the surveying of high value timber species

Community nursery and associated restoration programme implemented with associated community conservation agreements

- Areas have been identified for reforestation programmes with full support of land owners involved
- Groups have organised themselves to create nurseries for the reforestation programme and land has been prepared for this purpose

Small scale forestry and milling co-operative operational.

- Areas have been identified for the development of the eco forestry component of the programme. Specialised FRI staff and trainers have been employed to ensure the agro-forestry projects and some alternative farming practise (such as mushroom farming, rattan plantations)
- Clans and community members have become organised and have already made significant inroads into developing and establishing the proposed alternative livelihoods programmes. The local communities are also mobilised and established in terms of identifying the requirements for the long-term success of these initiatives

Education/Training programme completed.

- The schools programme within the valley has been initiated with education material being provided to the schools

- The education materials provided were developed by CCC/JFA in consultation with the schools council and teachers during in depth consultations. The materials consist of a teachers workbook and education aid, supporting the current PNG national curriculum on biodiversity and ecology, and an accompanying student workbook. Posters have been developed to assist with the teaching of this module.
- After further consultation additional teachers aids and student workbooks will be developed to aid with additional science modules of the PNG curriculum.
- The 'scholars' programme has also been initiated. Biodiversity training manuals and an in depth lecture series to accompany this manual has been developed by CCC/JFA in consultation with FRI and Unitech. These have been successfully accepted. No such manuals or training materials currently exist in the Unitech or FRI syllabus and are a crux for educational development.

Eco-tourism centre established (using local materials).

- The community has constructed an ecolodge for the development of the ecotourism component of the programme

Local community conservation model disseminated.

- Media outputs have been completed in PNG, with a website developed in the UK and newsletter outputs produced by CCC and JFA.

3.2 Progress towards Project Outputs

Report on how overall progress has been made towards the project outputs and how likely the project is to achieve them by its close. Please comment on the measuring of output indicators and whether the output level assumptions still hold true. If there have been changes in assumptions in what ways is the project meeting or managing these?

As previously stated the overriding objective of this project is to produce integrated community-driven management plans for the conservation, restoration and sustainable use of biodiversity in the Waria Valley watershed area. The project activities of biodiversity research and surveying, the educational component and empowerment of PNG nationals and the development of alternative livelihoods programme, fed into the long term objective of this programme. Each of these aspects addresses environmental, social and economic needs of the community and in turn supports the objectives of the CBD. The development of each of these components in unison results in an inclusive project whole. As this programme is integrated it is expected that the impact will be cumulative. The combined and unique way this project works will ensure that the community has become educated, instructed and mentored, thereby acquiring new skills which when integrated within the programme will result in the long term sustainable management of the Waria Valley.

3.3 Standard Output Measures

Table 1 Project Standard Output Measures

| Code No. | Description | Year 1 Total | Year 2 Total | Year 3 Total | Year 4 Total | TOTAL |
|-------------------|--|-----------------|-----------------|-----------------|-----------------|-------|
| Established codes | | | | | | |
| 17A | Email forum developed and maintained | 1 | | | | |
| 15a | Project launch National press releases within PNG | 1 | | | | |
| 15b | Project launch local press releases within PNG | 1 | | | | |
| 15c | Project launch press releases within UK | 1 | | | | |
| 14a | Stakeholder forums completed in 2006 and 2007 | 2 | | | | |
| 8 | Two international staff and four local staff recruited | 4 | | | | |
| 8 | Three international staff have visited PNG for training and other activities | 3 | | | | |
| 5 | Scholar programme and guide training has been initiated. | 4 | | | | |
| 7 | One survey manual and three education manuals have been developed | 4 | | | | |
| 9 | Marketing plan preparation with VDT abd BK | 1 | | | | |
| 19c | Radio coverage in Lae | 1 | | | | |
| 6a | School workshops and education days have been completed | 2 | | | | |
| 16a | Newsletters have been completed by CCC and JFA | 4 | | | | |
| 16b | Newsletters disseminated to PNG | 1 | | | | |
| 16c | Newsletters | 1 | | | | |

| | | | | | | |
|---------------------------------|--|---|--|--|--|--|
| | disseminated to PNG | | | | | |
| 21 | Marketing plan developed with VDT/BK. Nursery area identified. | 2 | | | | |
| 23 | In kind contributions completed for yr1 | 2 | | | | |
| New - Project specific measures | | | | | | |

In Table 2, provide full details of all publications and material produced over the last year that can be publicly accessed, eg title, name of publisher, contact details, cost. Mark (*) all publications and other material that you have included with this report.

Table 2 Publications

| Type * | Detail | Publishers | Available from | Cost £ |
|---------------------------------|--|--------------|-------------------------------|--------|
| (eg journals, manual, CDs) | (title, author, year) | (name, city) | (eg contact address, website) | |
| Manual | Training Manual for Conducting Biodiversity Surveying (35pp) CCC/JFA Tamblyn, A; Turner, C & Raines, P. (2007) | CCC/JFA | | YES! |
| Education Manual | Lecture Series for Scholars (139pp) CCC/JFA Tamblyn, A; Turner, C & Raines, P. (2007) | CCC/JFA | | YES |
| Education Manual | Teachers Aid: Ecology and the Environment (48pp) CCC/JFA Tamblyn, A; Turner, C & Raines, P. (2007) | CCC/JFA | | YES |
| Primary School Student Workbook | Primary School Student Workbook: Ecology and the Environment (13pp) | CCC/JFA | | YES |
| JFA Newsletter | JFA in PNG (summer 2006) Tamblyn, A; Turner, C (2006) | JFA | | |
| JFA Newsletter | Waria Valley project starts in PNG (spring 2007) | JFA | | |

| | | | | |
|--|------------------------------------|--|--|--|
| | Tamblyn, A; Turner, C (2007) | | | |
|--|------------------------------------|--|--|--|

3.3 Progress towards the project purpose and outcomes

Please briefly report on progress made towards the project purpose, ie its outcomes. Do the purpose level assumptions hold true and are the indicators adequate towards measuring outcomes.

The project is making good progress towards the achievement of the project purpose. The projected outputs for year one are being achieved as previously detailed. The assumptions as identified have held true and no other unforeseen assumptions have come to light.

The project has achieved all of the milestones identified for year one, however the timing of these achievements has had to be adjusted in light of the delay in deploying field staff (due to visa issues).

3.4 Progress towards impact on biodiversity, sustainable use or equitable sharing of biodiversity benefits

It is too early to identify the true impacts of the project, however, all elements of the project completed to date, contribute to all of the core results identified in the original proposal. Thus the activities completed thus far will contribute to the following:

Stakeholder Training

Trained Guides & Eco-tourism

Environmental Education Programme

Biodiversity Conservation & Research Training

Sustainable Livelihood Generation

Publications & Presentations

4. Monitoring, evaluation and lessons

Monitoring and evaluation has been largely undertaken by working closely via email with the in country coordinator. This has been backed up with two visits by UK staff to the project in the last twelve months and the monthly process of reporting and accounting insisted on.

As stated before the largest problem faced was due to bureaucracy caused by the delay in receiving working visas for staff. While it is difficult to draw lessons from this experience it has given us a better understanding of the channels of influence we are able to utilise for project means.

The project will continue to be monitored throughout the three year Darwin programme with UK and national teams present on location either permanently or temporarily, ensuring that support and advice and monitoring forms part of the community work and consultation. Reporting will be undertaken monthly (internally).

Two UK personnel will be permanently located in the Waria Valley providing constant support for the integrated programme. These individuals will be supported by our project partners including Bris Kanda Inc who can provide technical experts in management and community economic development; FRI who can provide technical support on certain agricultural practises and CCC and JFA who can provide environmental expertise and stakeholder management experience.

Evaluation of this project will form part of the stakeholder forums which are currently active and are held every six months. Reports and feedback from consultations and workshops and forums will be sent to all project partners (UK and PNG) so that all partners can monitor and constructively feedback into the programme. Other feedback is ensured via the active email forum.

5. Actions taken in response to previous reviews (if applicable)

Not applicable.

6. Other comments on progress not covered elsewhere

The project has increased in its potential as we have got involved hence why we are seeking additional support outside of the initial support from other agencies to allow for a growth of the project. We are hoping that some of this support may make the project viable in a longer term context.

The biggest difficulty has been in not being able to deploy the field staff due to visa issues. This has led to a delay in some of the work schedules.

At this stage it is not perceived the project faces any risks that are not covered in the existing Log Frame.

7. Sustainability

Discuss the profile of the project within the country and what efforts have been made during the year to promote the work. What evidence is there for increasing interest and capacity for

biodiversity resulting from the project? Is there a satisfactory exit strategy for the project in place and are project outputs, outcomes and impacts likely to be sustained?

The programme provides for an integrated approach to community conservation and sustainable development. The project ensures that the community becomes educated through the schools programme and through project workshops; the community becomes mentored and supported when trained with new skills, such as alternative livelihood programmes; the community is supported financially and technically ensuring that risks are minimalised. This approach allows the community to develop their skills and knowledge in a supportive network and thus forming an intrinsic part of day to day activity.

The presence of UK staff and PNG national staff in the valley on a permanent basis and the provision of experts from BrisKanda, FRI and VDT will allow the programmes to be continually monitored.

8. Dissemination

Provide details of dissemination activities in the host country during the year, including information on target audiences. Will dissemination activities be continued by the host country when the project finishes, and how will this be funded and implemented?

Education materials developed for the people of the Waria Valley can be disseminated throughout the NGO communities/networks to help with knowledge exchange. Reports on the project will be made public through Coral Cay's website.

Project Expenditure

Please expand and complete Table 3.

Table 3 Project expenditure during the reporting period (Defra Financial Year 01 April to 31 March)

| Item | Budget (please indicate which document you refer to if other than your project schedule) | Expenditure | Balance |
|--|--|-------------|---------|
| Rent, rates, heating, overheads etc | | | |
| Office costs (eg postage, telephone, stationery) | | | |
| Travel and subsistence | | | |
| Printing | | | |
| Conferences, seminars, etc | | | |
| Capital items/equipment | | | |
| Others | | | |
| Salaries (specify) | | | |
| Team leader | | | |
| Research Leader | | | |
| Education | | | |
| Field Scientist | | | |
| Field Scientist | | | |
| Field Manager | | | |
| FRI Staff | | | |
| Eco Tourism Staff | | | |
| Guides | | | |
| TOTAL | | | |

Highlight any agreed changes to the budget and explain any variation in expenditure where this is +/- 10% of the budget.

Reconciliation of Salary Expenses:

Name Position Amount Notes

| | | | |
|----------------------------|----------------------|--|--|
| Richard Surma/James Sawyer | Logistics | | Richard Surma left at 30th May and James Sawyer replaced him |
| Craig Turner | Researcher Leader | | JFA invoices |
| Alexia Tamblyn | Education & Training | | JFA invoices |

| | | | |
|--------------------------|-------------------|--|--------------------------|
| Andrew Farmer | Field Manager | | Incountry UK field staff |
| Jeff Dawson | Field Scientist 1 | | Incountry UK field staff |
| Oscar | Field Scientist 2 | | Local staff |
| Cossey Yosi | FRI Staff | | Local staff |
| Eco Tourism centre staff | | | Local staff |
| Guides, Cooks, Security | | | Local staff |
| | | | |
| TOTAL | | | |

9. OPTIONAL: Outstanding achievements of your project during the reporting period (300-400 words maximum). This section may be used for publicity purposes

I agree for ECTF and the Darwin Secretariat to publish the content of this section

In this section you have the chance to let us know about outstanding achievements of your project over the year that you consider worth highlighting to ECTF and the Darwin Secretariat. This could relate to achievements already mentioned in this report, on which you would like to expand further, or achievements that were in addition to the ones planned and deserve particular attention eg in terms of best practice. We may use material from this section for various promotion and dissemination purposes, including e.g. publication in the Defra Annual Report, Darwin promotion material, or on the Darwin website. As we will not always be able to ask projects on an individual basis for their consent to publish the content of this section, please note the above agreement clause.

Annex 1 Report of progress and achievements against Logical Framework for Financial Year: 2006/07

| Project summary | Measurable Indicators | Progress and Achievements April 2006 - March 2007 | Actions required/planned for next period |
|---|---|---|---|
| <p>Goal: <i>To draw on expertise relevant to biodiversity from within the United Kingdom to work with local partners in countries rich in biodiversity but constrained in resources to achieve</i></p> <p><i>The conservation of biological diversity,</i></p> <p><i>The sustainable use of its components, and</i></p> <p><i>The fair and equitable sharing of the benefits arising out of the utilisation of genetic resources</i></p> | | <p><i>The project has made a positive contribute in establishing a firm foundation for future conservation, training and sustainable use elements of the project.</i></p> | <p><i>(do not fill not applicable)</i></p> |
| <p>Purpose</p> <p>Threatened forest resources of the Waria Valley are effectively conserved and sustainably used through enhancing the capacity of local researchers and stakeholders, whilst effecting alternative livelihoods for local land managers/owners.</p> | <p>New knowledge of local forest biodiversity.</p> <p>Biodiversity monitoring and community management system by Yr3.</p> <p>Evidence of regeneration by Yr 3.</p> <p>Self-sustaining forestry and eco-tourism enterprises by Yr 3.</p> | <p>The project ahs developed and consolidated capacity to enable ongoing conservation activities. Research and restoration areas have been identified. Training materials have been developed and livelihood programmes are in the process of being initiated. An eco-tourism centre is in the progress of being developed.</p> | <p>Activities are planned according to the outcomes of year1 and proposed outputs and milestones for year 2</p> |
| <p>Output 1.</p> <p>Forest biodiversity resource assessment programme.</p> | <p>GIS-mapped forest data for Waria Valley, with 10 local counterparts trained in Yr2 & Yr3.</p> | <p>Work begun, promotion and recruitment of scholars underway.</p> | |
| <p>Activity 1.1 insert activities relevant to this out put</p> | | <p>Field surveys begun, monitoring protocol defined. Surveys will continue in</p> | |

| | | |
|---|---|---|
| <p>Field Surveys</p> <p>Yr 1: complete initial surveys and define monitoring protocol. Yr 2: continued surveys and GIS development. Yr 3: GIS completion and ongoing monitoring led by locally trained personnel.</p> | <p>the identified areas during the next period of the project.</p> | |
| <p>Activity 1.2</p> <p>Education/Training</p> <p>Yr 1 & Yr 2: training programme for scholar students.</p> <p>Yrs 1-3: Education programmes implemented in schools and teachers trained by Yr 2</p> | <p>Scholar scheme being promoted and scholars for Yr2 are currently being considered.</p> <p>School materials complete and education programmes begun, and will continue in yr2..</p> | |
| <p>Activity 1.3</p> <p>Stakeholder workshops</p> <p>Yr1: Project planning workshops. Yr 1&2: Biodiversity training courses. Annual reviews (Yr 1-3)</p> | <p>All complete for year 1.</p> | |
| <p>Output 2.</p> <p>Community nursery and associated restoration programme implemented with associated community conservation agreements.</p> | <p>Strategy development facilitated by village council representatives in consultation with MBK/VDT by Yr1, enacted & monitored by Yr2 & Yr3.</p> | <p>Areas identified, community agreement achieved, nursery and restoration is underway in terms of keys areas identified, and will continue to be developed in yr2. Restoration activities will commence in year 2.</p> |
| <p>Activity 2.1.</p> <p>Restoration</p> <p>Agreed community restoration plan (Yr 1). Nurseries developed &</p> | <p>Completed year 1 aims and will continue as planned for year 2.</p> | |

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| regeneration started Yr 2, continued Yr3 | | |
| <p>Activity 2.2 Stakeholder workshops</p> <p>Yr1: Project planning workshops. Yr 1&2: Biodiversity training courses. Annual reviews (Yr 1-3)</p> | | Completed for year 1 and will be continued in year 2 |
| <p>Output 3. etc, Small scale forestry and milling co-operative operational.</p> | <p>Co-operative mill with plan established Yr1. Operational Yr2 & Yr3.</p> | Co-operative group and plan established. A milling operation is planned to be initiated in yr2. |
| <p>Activity 3.1 Forestry Initiative</p> <p>Yr 1: small-scale forestry plan developed, agreed and implemented. Yr 2-3: Alternative incomes generated.</p> | | Plan developed and complete for year 1. |
| <p>Activity 3.2 Stakeholder workshops</p> <p>Yr1: Project planning workshops. Yr 1&2: Biodiversity training courses. Annual reviews (Yr 1-3)</p> | | Completed for year 1. |
| <p>Output 4. Education/Training programme completed</p> | <p>10 students/yr trained (UniTech). Local schools adopt education programme.</p> | Training complete for year 1. |

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| | | |
| Activity 4.1 Education/Training Yr 1 & Yr 2: training programme for scholar students. Yrs 1-3: Education programmes implemented in schools and teachers trained by Yr 2. | | Complete for year 1 |
| Activity 4.2 Stakeholder workshops Yr1: Project planning workshops. Yr 1&2: Biodiversity training courses. Annual reviews (Yr 1-3) | | Complete for year 1 |
| Output 5. Eco-tourism centre established (using local materials). | Conversion of centre completed by Yr 2. | The basic centre has been located and built, and will be further developed in year 2 to operate as a functioning eco-tourism centre, as planned. |
| Activity 5.1 Stakeholder workshops Yr1: Project planning workshops. Yr 1&2: Biodiversity training courses. Annual reviews (Yr 1-3) | | Complete for year 1 |
| Activity 5.2 Eco-tourism Local construction of centre and staff training (Yr 1). Yr 2-3: start operating and income generation | | Centre constructed, development continues. |
| Output 6. | Bi-annual radio broadcasts, | Project launch undertaken, newspaper and radio articles. Newsletters |

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| Local community conservation model disseminated. | newspaper features & newsletters. | produced. Webpage complete. |
| <p>Activity 6.1</p> <p>Media Outputs</p> <p>Yrs 1-3: Bi-annual radio broadcasts, newsletters and newspaper out. NGO newsletters (various dates).</p> | | Complete for year 1 and will continue in year 2 |
| <p>Activity 6.2</p> <p>Stakeholder Workshops</p> <p>Yr1: Project planning workshops. Yr 1&2: Biodiversity training courses. Annual reviews (Yr 1-3)</p> | | Complete for year 1 and will continue in year 2 |

Annex 2 Project's full current logframe

| Project summary | Measurable Indicators | Means of verification | Important Assumptions |
|--|--|---|--|
| Goal: To draw on expertise relevant to biodiversity from within the United Kingdom to work with local partners in countries rich in biodiversity but poor in resources to achieve <ul style="list-style-type: none"> • the conservation of biological diversity, • the sustainable use of its components, and • the fair and equitable sharing of benefits arising out of the utilisation of genetic resources | | | |
| Purpose Threatened forest resources of the Waria Valley are effectively conserved and sustainably used through enhancing the capacity of local researchers and stakeholders, whilst effecting alternative livelihoods for local land managers/owners. | New knowledge of local forest biodiversity. Biodiversity monitoring and community management system by Yr3. Evidence of regeneration by Yr 3. Self-sustaining forestry and eco-tourism enterprises by Yr 3. | Progress reporting by CCC/MBK/VDT. Field survey reports and associated papers published. Livelihood generation reports submitted with photographic record to Darwin. | Partner NGOs, community leaders and stakeholders continue to co-operate and remain committed to the project. Experienced counterpart staff and trained stakeholders continue their participation for duration of the project. |
| Outputs Forest biodiversity resource assessment programme. Community nursery and associated restoration programme implemented with associated community conservation agreements. Small scale forestry and milling co-operative operational. | GIS-mapped forest data for Waria Valley, with 10 local counterparts trained in Yr2 & Yr3. Strategy development facilitated by village council representatives in consultation with MBK/VDT by Yr1, enacted & monitored by Yr2 & Yr3. Co-operative mill with plan established Yr1. Operational Yr2 & Yr3. | GIS output submitted to partners (FRI), technical reports/papers & management plan published. Conservation agreements endorsed and signed. Physical presence of nursery areas, with photo documentation of these and regenerated areas. Co-op agreement signed. Financial & product reports. Photo | Trained counterparts remain committed to the project. Plans/reports are used locally. Active and continued local participation by stakeholders. Sustainable management principles adopted, and sufficient |

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|---|---|---|--|
| Education/Training programme completed. | | documentation. One teacher/school trained. Education & training outputs published. Copies of certificates of students. | market for products. Trained teachers remain at schools, education materials still used. Students remain committed. |
| Eco-tourism centre established (using local materials). | 10 students/yr trained (UniTech). Local schools adopt education programme. | Report on facilities and programmes at centre, with feedback from customers by Yr 3. | Effective business plan & marketing of eco-tourism facilities to sustain custom and income. |
| Local community conservation model disseminated. | Conversion of centre completed by Yr 2. | Copies of media outputs sent to Darwin. | Media outputs reach and influence intended audience. |
| | Bi-annual radio broadcasts, newspaper features & newsletters. | | |
| Activities | Activity Milestones | Assumptions | |
| Stakeholder workshops | Yr1: Project planning workshops. Yr 1&2: Biodiversity training courses. Annual reviews (Yr 1-3) | Stakeholders remain committed. | |
| Field Surveys | Yr 1: complete initial surveys and define monitoring protocol. Yr 2: continued surveys and GIS development. Yr 3: GIS completion and ongoing monitoring led by locally trained personnel. | Logistics, weather and stakeholder support permits surveys as planned. | |
| Restoration | Agreed community restoration plan (Yr 1). Nurseries developed & regeneration started Yr 2, continued Yr3. | Stakeholder agreement. | |
| Education/Training | Yr 1 & Yr 2: training programme for scholar students. Yrs 1-3: Education programmes implemented in schools and teachers trained by Yr 2. | Local teachers remain committed to programme and students are receptive | |
| Forestry Initiative | Yr 1: small-scale forestry plan developed, agreed and implemented. Yr 2-3: Alternative incomes generated. | Stakeholder agreement, and marketing support from VDT & MBK. As above. | |
| Eco-tourism | Local construction of centre and staff training (Yr 1). Yr 2-3: start operating and income generation. | Target audience reached and influenced. | |
| Media Outputs | Yrs 1-3: Bi-annual radio broadcasts, newsletters and newspaper out. NGO newsletters (various dates). | | |

Annex 3 onwards – supplementary material (optional)

Checklist for submission

| | Check |
|--|-------|
| Is the report less than 5MB? If so, please email to Darwin-Projects@ectf-ed.org.uk putting the project number in the Subject line. | |
| Is your report more than 5MB? If so, please advise Darwin-Projects@ectf-ed.org.uk that the report will be send by post on CD, putting the project number in the Subject line. | |
| Do you have hard copies of material you want to submit with the report? If so, please make this clear in the covering email and ensure all material is marked with the project number. | |
| Have you completed the Project Expenditure table? | |
| Do not include claim forms or communications for Defra with this report. | |