INTERNATIONAL TROPICAL TIMBER ORGANIZATION

ITTO

PROJECT DOCUMENT

TITLE ACCELERATING THE RESTORATION OF CIBODAS BIOSPHERE

RESERVE (CBR) FUNCTIONS THROUGH PROPER MANAGEMENT OF LANDSCAPES INVOLVING LOCAL STAKEHOLDERS

SERIAL NUMBER PD 777/15 Rev.3 (F)

COMMITTEE REFORESTATION AND FOREST MANAGEMENT

SUBMITTED BY GOVERNMENT OF INDONESIA

ORIGINAL LANGUAGE ENGLISH

SUMMARY

Cibodas Biosphere Reserve (CBR) in West Java province of Indonesia, with a total area of approximately 114,779 hectares, is one of the most important biosphere reserves of Indonesia due mainly to its rich and unique biodiversity. It is also a well-known tourist destination due to its relatively good accessibility and a vital source of water for lives of about thirty million people residing in the Capital City of Jakarta and other smaller cities as well as municipalities located around the reserve.

The reserve, however, has not been adequately managed; it has not fully fulfilled its conservation and development functions due to various management problems. The proposed project aims "to contribute to restoring the conservation and development functions of CBR". Its specific objective, "to improve conservation and sustainable management of biodiversity and ecosystems in CBR through implementation of the Integrated Strategic Management Plan", is to be achieved through delivery of three outputs, namely: i) threat on biodiversity in the core area significantly reduced, ii) land use best practices in CBR buffer and transition zones demonstrated and promoted, and iii) institutional arrangements for CBR management enhanced. The basic notion underlying the project design is that CBR can never fulfill its conservation and development functions unless the landscapes in the core area and buffer and transition zones are properly managed and utilized and the institutional arrangements for the reserve management are significantly enhanced.

EXECUTING GUNUNG GEDE PANGRANGO NATIONAL PARK AUTHORITY (GGPNP), AGENCY DIRECTORATE GENERAL OF NATURAL RESOURCES AND

DIRECTORATE GENERAL OF NATURAL RESOURCES AND ECOSYSTEM CONSERVATION (KSDAE), MINISTRY OF ENVIRONMENT

AND FORESTRY (MOEF)

COLLABORATING AGENCY

DURATION 36 MONTHS

APPROXIMATE TO BE DETERMINED

STARTING DATE

BUDGET AND PROPOSED Contribution Local Currency SOURCES OF FINANCE Source in US\$ Equivalent

 ITTO
 515,590

 Gov't of Indonesia
 128,026

TOTAL 643,616

Project Brief

Cibodas Biosphere Reserve (CBR) is one of Indonesia's biosphere reserve system that was designated by UNESCO in 1977 based on the proposal made by the Government of Indonesia (GOI). The extent of CBR is approximately 114,779 hectares. It is a favored tourist destination due to its strategic location that encompasses the districts of Bogor, Cianjur and Sukabumi with relatively good accessibility. The reserve also is an important source of water supply affecting lives of around 30 million people residing in the districts and surrounding such areas as the state capital of Jakarta and cities of Depok, Bekasi and Tangerang.

The Gunung Gede Pangrango National Park (GGPNP) is the core area of CBR; accordingly, the GGPNP Authority has been the leading institution in the reserve management. Indeed, the Authority has been striving to conduct appropriate management operations amidst its limited capacity in terms of financial, institutional and technical factors. In order to improve CBR management in view of realizing the intended functions of the reserve, the International Tropical Timber Organization (ITTO) has provided assistance to GGPNP Authority in the form of an assisted project that has been implemented for 28 months starting September 2011.

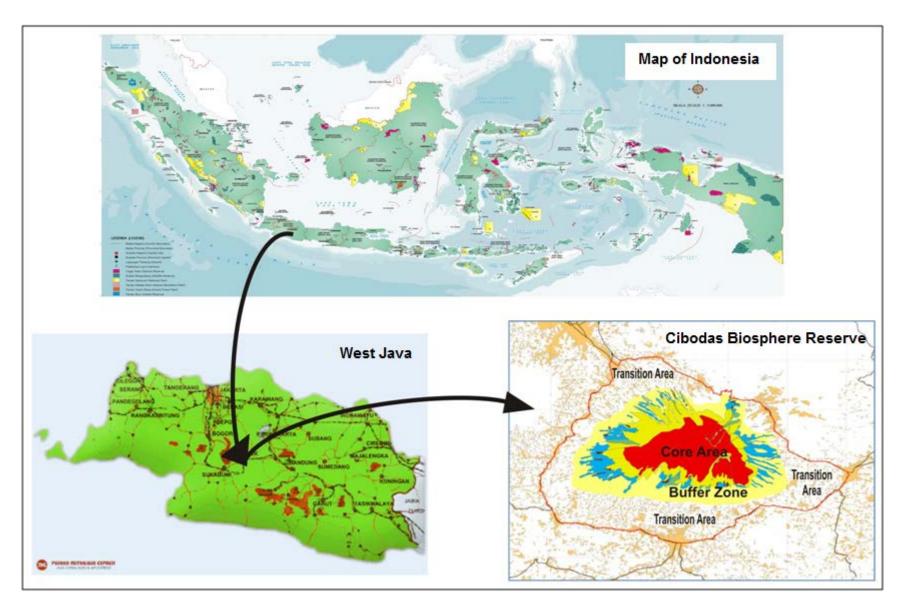
The specific objective of that project was "to strengthen forest law enforcement and governance for the conservation and sustainable use of biodiversity and environmental services of CBR" which has, to one extent, been achieved through delivery of three outputs, namely: i) commitment of stakeholders to an effective CBR management increased, ii) an integrated strategic management plan (ISMP) for CBR developed, and iii) community awareness on the conservation and sustainable use of biodiversity and environmental services as well as forest law enforcement and governance of CBR enhanced.

However, CBR has been inadequately managed as to date that its conservation and development functions are deteriorating over time. The ISMP developed under the previous project has not been implementable for political, institutional and financial reasons. This proposed project is, in fact, a partial implementation of the ISMP. Its overall objective is "to contribute to restoring the conservation and development functions of CBR" while its specific objective is "to improve conservation and sustainable management of biodiversity and ecosystems in CBR through implementation of the Integrated Strategic Management Plan" which is to be achieved through delivery of 3 outputs: i) threat on biodiversity in the core area significantly reduced, ii) land use best practices in CBR buffer and transition zones demonstrated and promoted, and iii) institutional arrangements for CBR management enhanced.

The proposed project will be implemented using a participatory approach wherein the Executing Agency (EA), the GGPNP Authority, will be working closely with the stakeholders including the three district governments, NGOs, national consultants, universities and National Academy of Sciences (NAS) in implementing the activities pertaining to the respective outputs. Each of the outputs will be delivered in an effective manner as the activities have been defined correspond to the causes of the main problems identified by the consultative meetings of stakeholders. Full execution of the relevant activities should deliver the outputs defined and, in turn, achieve the specific objective aspired.

The key assumptions made include: i) government authorities committed to CBR conservation and development, ii) cooperative farmers, iii) cooperative local communities and business firms, and iv) good coordination between MOEF and regional/district governments. The concomitant main risks are the weakening commitment of concerned authorities, uncooperative farmers as well as local communities and private firms. Accordingly, the envisaged mitigating measures are: i) project management to convince the government authorities on the advantages of operating a CC Forum at district level and to request for GGPNP Authority and district governments to allocate funds for sustaining project activities, ii) intensive dialogue with farmers by experienced professionals, iii) a win-win solution is to be defined based on local conditions, iv) intensive consultations with local communities, business firms and regional/local government authorities, and v) to convince local communities and business firms that current use of resources is not the best option.

The amount of project budget proposed is US\$ 643,616 in total comprising US\$ 515,590 of ITTO's contribution and US\$ 128,026 of GOI's contribution. The ITTO funds are allocated 28,65% (US\$ 147,700) as personnel component and 4.03 percent (US\$ 20,800) for `procurement of capital items.



Source: Periodic Review on Cibodas Biosphere Reserve (Man and the Biosphere Programme, 2010)

Table of Contents

	ct Brief	
	of Contents	
List of	f Abbreviations and Acronyms	V
PART	1. CONTEXT	1
1.1	Origin	
1.2	Relevance	
1.2.1		
1.2.2	Relevance to Indonesia's policies	
1.3	Target area	
	Geographic location	
	Socio-cultural, economic, and environmental aspects	
1.4	Expected outcomes at project completion	
PART	2. PROJECT RATIONALE AND OBJECTIVES	8
2.1	Rationale	
	Institutional setup and organizational issues	
	Stakeholder analysis	
	Problem analysis	
	Logical framework matrix	
2.2	Objectives	
	Development objective and impact indicators	
	Specific objective and outcome indicators	
	3. DESCRIPTION OF PROJECT INTERVENTIONS	
3.1	Outputs and Activities	
	Outputs	
	Activities	
3.2	Implementation approaches and method	
3.3	Workplan	
3.4	Budget	
3.4.1	Master budget schedule	
	Yearly consolidated budget	
	ITTO yearly budget	
	Executing agency yearly budget (GOI)	
3.5	Assumptions, risks and sustainability	
	Assumptions and risks	
3.5.2	Sustainability	31
	4. IMPLEMENTATION ARRANGEMENTS	33
4.1	Organization structure and stakeholder involvement mechanism	33
	Executing agency and partners	
	Project management team	
	Project steering committee (PSC)	
	Stakeholder involvement mechanism	
4.2	Reporting, review, monitoring and evaluation	
4.3	Dissemination and mainstreaming of project learning	
	Dissemination	
4.3.2	Mainstreaming	35
	ted References	
	EX 1: Profiles of the executing agency	
	EX 2: Project organizational structure	
	EX 3: Tasks and responsibilities of the key experts provided by the executing agency EX 4: Outlines of the terms of reference of key personnel, consultants/experts and	39
	ontracts to be paid with ITTO funds	40

List of Abbreviations and Acronyms

CBD : Convention on Biological Diversity
CBR : Cibodas Biosphere Reserve
CC : Coordination and Communication

CL : Community Leader DG : Directorate General

DGo : District Government Officials

EA : Executing Agency
GDP : Gross Domestic Product

GGPNP : Gunung Gede Pangrango National Park

HDI : Human Development Index

HT: Handy Talkie

ISMP : Integrated Strategic Management Plan
ITTA : International Tropical Timber Agreement
ITTO : International Tropical Timber Organization

IUCN : International Union for the Conservation of Nature

KSDAE : Direktorat Jenderal Konservasi Sumber Daya Alam dan Ekosistem

(Directorate General of Natural Resource and Ecosystem Conservation)

MAB : Man and the Biosphere

MOEF : Ministry of Environment and Forestry

MOI : Ministry of Interior

NAS : National Academy of Sciences

NC : National Consultant NE : National Expert

NGO : Non-governmental Organization NTFP : Non Timber Forest Product

PA : Park Authority
PC : Project Coordinator
PF : Project Finance

PHBM : Pengelolaan Hutan Bersama Masyarakat

(Community Participatory Forest Management)

PS : Project Secretary

PSC : Project Steering Community

PT : Project Technicians

TEK : Traditional Ecological Knowledge

TOR : Terms of Reference

UNESCO: United Nations Educational, Scientific and Cultural Organization

YPO : Yearly Plan of Operation

PART 1. CONTEXT

1.1 Origin

ITTO Project TFL-PD 019/10 Rev. 2 (M) entitled "developing collaborative management of Cibodas Biosphere Reserve in West Java, Indonesia" had been implemented by the Gunung Gede Pangrango National Park (GGPNP) Authority since September 2011 and completed in March 2014. The key problem addressed by that project was "poor implementation of good governance practices and ineffective law enforcement in the conservation and sustainable use of biodiversity and environmental services" which was caused mainly by: i) lack of stakeholders commitment to an effective Cibodas Biosphere Reserve (CBR) management and law enforcement, ii) absence of an integrated strategic management plan, and iii) limited community awareness on sustainable use of biodiversity and environmental services.

Consistent with the key problem addressed, the specific objective of that project was "to strengthen forest law enforcement and governance on the conservation and sustainable use of biodiversity and environmental services of CBR" which had, to some extent, been achieved through delivery of three outputs, namely:

- Commitment of stakeholders to an effective CBR management increased
- An integrated strategic management plan for CBR developed
- Community awareness on the conservation and sustainable use of biodiversity and environmental services as well as forest law enforcement and governance enhanced

Indeed, the project has been successfully completed and, to some degree, achieved its planned specific objective. However, achieving the specific objective does not by itself resolve all the problems facing CBR management nor restore and promote the intended functions of CBR which, according to Seville Strategy, are:

- i. Conservation function to preserve genetic resources, species, ecosystems and landscapes
- ii. Development function to foster sustainable economic and human development
- iii. Logistic support function to support demonstration projects, environmental education and training and research and monitoring related to local, national and global issues of conservation and sustainable development

While commitment of stakeholders to CBR management and awareness of communities on conservation and sustainable use of forest resources have been increased through the previous project, several problems remain unresolved which are well documented in the integrated strategic management plan (ISMP) developed under completed project. Indeed, problems facing CBR management are numerous; one cannot expect to resolve all these problems by just implementing one single 28-month project. However, it should be noted that the enhanced commitment and increased awareness of stakeholders are an invaluable asset for achieving the CBR management objective, i.e. to restore and conserve the intended functions of CBR as previously mentioned that they shall be properly utilized under the proposed project.

This project proposal is the initiative of GGPNP Authority and is a follow up action to the findings of the previous project. Please note that ISMP produced under the previous project had been developed involving a panel of experts and representatives of the primary stakeholders. Prior to submission to MOEF, the ISMP must first obtain endorsement from the provincial/district government. This endorsed ISMP is then to be used as the main inputs to the formulation of a final version of ISMP by GGPNP for approval by MOEF in order to be eligible for state funding. This approval process may take years to complete while delaying implementation of ISMP may further jeopardize sustainability of the reserve. In addition, the awareness and commitment of local stakeholders, especially the local communities and government authorities, on biodiversity conservation and law enforcement that had been raised and enhanced through the completed project need to be promoted and utilized in order not to lose the momentum for CBR conservation. In fact, this proposed project is a partial implementation of ISMP; out of seven programmes of ISMP, the project only focuses on enhancing strategies for conservation of CBR core area, appropriate use of buffer and transition zones and strengthening of institutional arrangements.

The main purposes of proposed project are:

- i. To preserve and strengthen achievements of the previous project by properly utilizing the outputs and promoting sustainable livelihood activities that have been initiated under the completed project which will serve as a strong incentive for the local communities to support CBR conservation.
- ii. To partially implement the ISMP developed under completed project without delay in order not to lose the momentum that may aggravate existing problems.
- iii. To put in place adequate strategies for conservation and sustainable management of the CBR in view of restoring the conservation and development functions of the reserve by delivering 3 outputs, namely: i) threat on biodiversity in the core area significantly reduced, ii) land use best practices in CBR buffer and transition zones demonstrated and promoted, and iii) institutional arrangements for CBR management enhanced.

1.2 Relevance

1.2.1 Conformity with ITTO's objectives and priorities

a. ITTA 2006

The proposed project concerned with sustainable and proper functioning of the CBR through improved management of the core area as well as the buffer and transition zones involving primary stakeholders and strengthened institution governing the reserve management. This concern is consistent with the International Tropical Timber Agreement 2006 in the following manner:

- Article 1 (c): contributing to sustainable development and to poverty alleviation
 The project will introduce sustainable livelihood models and train beneficiaries on best practices thus support sustainable development and create job opportunities. These activities will surely be useful for poverty alleviation and, in turn, for CBR conservation.
- Article 1 (n): strengthening the capacity of members to improve forest law enforcement and governance and address illegal logging and related trade in tropical timber The project will enhance monitoring capacity by involving local communities in three districts in order to effectively improve forest law enforcement and combat illegal activities including illegal loggings and harvesting of NTFPs.
- Article 1 (r): encouraging members to recognize the role of forest-dependent indigenous and local communities in achieving sustainable forest management and develop strategies to enhance the capacity of these communities to sustainably manage tropical timber producing forests
 - This proposed project will contribute to this ITTA objective by fairly resolving the land conflicts occurring in the reserve area and rehabilitating these lands with suitable species and by enhancing monitoring of forest operations with the involvement of local communities.

b. ITTO Strategic Action Plan 2013-2018

The proposed project deals with conservation of biodiversity and forest ecosystem of the CBR core area thus is in conformity to ITTO's Strategic Priority 3 "enhance the conservation and sustainable use of biodiversity in tropical timber organization producing forests" and Strategic Priority 4 "reduce tropical deforestation and forest degradation and enhance the provision of environmental services".

The proposed project is also concerned with improving livelihood of local stakeholders by implementing best land use practices in the buffer and transition zones of the reserve thus is consistent with ITTO's Strategic Priority 2 "increase the contribution of tropical forests to national and local economies". In addition, the project also concerns with institutional strengthening by revising and enhancing the existing Coordination and Communication (CC) Forum of CBR thus is consistent with ITTO's Strategic Priority 1 "promote good governance and enabling policy frameworks for strengthening SFM and related trade and enhancing SFM financing and investment".

c. Aichi Biodiversity Targets of CBD

The proposed project concerns with the promotion of conservation function of the reserve including introduction of a sound biodiversity enrichment model, application of biodiversity monitoring system which is consistent with Target 7 "By 2020, areas under agriculture, aquaculture and forestry are managed sustainably, ensuring conservation of biodiversity".

The proposed project will establish sustainable livelihood models that are ecologically friendly in the buffer and transition zones in close collaboration with stakeholders at all levels which is in conformity to Target 4 "By 2020, at the latest, Governments, business and stakeholders at all levels have taken steps to achieve or have implemented plans for sustainable production and consumption and have kept the impacts of use of natural resources well within safe ecological limits".

The proposed project also deals with the rehabilitation of degraded forest inside the core area of the reserve, the national park, which supports achievement of Target 5 "By 2020, the rate of loss of all natural habitats, including forests, is at least halved and where feasible brought close to zero, and degradation and fragmentation is significantly reduced".

The core area of the reserve contains important and unique biodiversity and ecosystem that need to be conserved. The proposed project deals with strengthening of institution and enhancing management capacity which correspond to Target 11 "By 2020, at least 17 per cent of terrestrial and inland water, and 10 per cent of coastal and marine areas, especially areas of particular importance for biodiversity and ecosystem services, are conserved through effectively and equitably managed, ecologically representative and well connected systems of protected areas and other effective area-based conservation measures, and integrated into the wider landscapes and seascapes".

In addition, the proposed project also concerns with improving resilience of ecosystems and restoring of degraded ecosystems in the biosphere reserve which are in line with Target 15 "By 2020, ecosystem resilience and the contribution of biodiversity to carbon stocks has been enhanced, through conservation and restoration, including restoration of at least 15 per cent of degraded ecosystems, thereby contributing to climate change mitigation and adaptation and to combating desertification".

d. Joint ITTO-CBD Collaborative Initiative for Tropical Forest Biodiversity

The project interventions are generally consistent with the objectives of the Joint ITTO-CBD Initiative with objectives no. 2, 3, and 4 in particular:

- The project concerns with conservation and sustainable management of CBR in general, the core area in particular (Objective 2).
- The project deals with safeguarding forest biodiversity in the core area through enrichment planting and intensified monitoring (Objective 3).
- The project aims to improve welfare of local communities and awareness on nature conservation and sustainable development (Objective 4).
- e. ITTO/IUCN Guidelines for the Conservation and Sustainable Use of Biodiversity in Tropical Timber Production Forests

The project concerns with the enhancement of strategies for conservation and sustainable management of biodiversity and ecosystems in CBR in view of restoring the conservation and development functions of the reserve. The ITTO/IUCN guidelines define the principles, guidelines and priority actions for the conservation and sustainable use of biodiversity in tropical timber production forests. Some of the principles, guidelines and priority actions defined in the guidelines may also be applicable to biodiversity conservation in protected areas which include, among others:

Principle 3: Political commitment, policies and laws

Strong commitment from decision-makers and adequate national policies, laws and regulations are needed to ensure that forest management addresses biodiversity issues at the scale of the forest management unit as well as at the landscape and national levels.

• Principle 6: Incentives

Society gets large benefits from biodiversity conservation, but the costs of conservation fall mainly on local forest owners and managers. Incentives will often be required to encourage forest owners and managers to take special measures for biodiversity conservation and sustainable use.

Principle 9: Biodiversity considerations at the forest management unit level

An effective forest management planning process, in which economic, social and environmental objectives are balanced in accordance with societal needs and priorities, is essential for setting and achieving biodiversity conservation and sustainable use goals.

1.2.2 Relevance to Indonesia's policies

The objectives, outputs and activities of proposed project are consistent with the national policies on sustainable forest conservation, especially with:

- Law No. 5/1990 concerning the Conservation of Biological Natural Resources and the Ecosystem mentioned that biosphere reserves should be protected and preserved for the purpose of research and education.
- ii. Government Regulation No. 68/1998 regarding KPA (Nature Protected Area) and KSA (Nature Reserve Area), mentioned that national park as a conservation area is managed by zoning system and there are 3 (three) principles of conservation, namely protection, preservation and sustainable use of natural resources.
- iii. Ministerial Regulation No. 174/Kpts-II/2003 regarding expanded area of GGPNP.
- iv. Government Regulation No. 6/2007 concerning Forest System and Forest Management Planning and Forest Utilization (the Republic of Indonesia's Government Official Gazette of 2007 No. 22, Annex to the Republic of Indonesia's Government Official Gazette Number 4696) as amended.
- v. Government Regulation No 26/2008 regarding National Spatial Planning.
- vi. Law No. 5/1994 regarding Ratification of Convention on Biological Diversity.

In addition, the proposed project has also been developed in close consultation with international policies on biosphere reserve development, such as:

- i. Declaration of UNESCO year 1977 regarding Cibodas Biosphere Reserve.
- ii. Seville Strategy on UNESCO Document 28C/Resolution 2.4 of the 28th UNESCO General Conference, November 1995.
- iii. Madrid Declaration on the Man and the Biosphere (MAB) Programme UNESCO 2008.

1.3 Target area

1.3.1 Geographic location

CBR area is located in West Java province and situated in three districts, namely Bogor, Cianjur and Sukabumi as depicted in the map. Extent of the area is approximately 114,779 hectares in total, comprising 22,851 hectares of core area, 12,700 hectares of buffer zone and 79,228 hectares of transition area (Purwanto, et al., 2013). The entire CBR core area, the national park, is located in the districts of Bogor (34.5%), Cianjur (20.2%) and Sukabumi (45.3%).

1.3.2 Socio-cultural, economic and environmental aspects

a. Socio-cultural aspects

The population size of Bogor, Cianjur, and Sukabumi districts in 2012 was 9.63 million in total, dominated by Sundanese, the indigenous people of West Java region. In the past, Sundanese people had utilized natural resources in a sustainable manner based on traditional ecological knowledge (TEK) obtained from ancestors and practiced in a trial error manner. Based on the TEK for instance, zoning system was practiced wherein particular zones could be utilized while other zones were banned from livelihood activities.

The main land use systems practiced by the Sundanese people include *huma*, a form of shifting cultivation with a long rotation period, *talun-kebun* system wherein a mix of fruit and tree species was planted for livelihood and *pekarangan* system or an integrated agriculture-aquaculture combining tree planting with fish ponds. In irrigated lands, paddy of different varieties were used in combination with fish raising and cash cropping. The traditional systems practiced was proved able to survive climate change, natural disasters, pest and disease outbreaks and market dynamics (Iskandar, 2011).

In recent years, the traditional agriculture systems have undergone changes, due mainly to population growth and occurring changes in values and beliefs brought about by modernized lifestyle. However, the present form of agro-forestry is, in fact, a modified form of talun-kebun and pekarangan systems that had been practiced in the past. It appears that nature conservation, for Sundanese people, can be done sustainably hand in hand with livelihood development activities, which is the essence of practicing agro-forestry system.

b. Economic aspects

Bogor district

- The Human Development Index (HDI) that reflects level of education, health and income
 is increasing from 72.15 in 2010 to 73.08 in 2012 indicating slight improvement in wellbeing.
- During the 2010-2012 period, the annual economic growth was 5-6 % per annum with the highest growth experienced by construction sector (9%) and trade, hotel & restaurants (8%) whilst agriculture sector experienced a negative growth due mainly to significant conversion of agriculture lands and other uses.
- The per capita income in 2012 was estimated at app. USD 1,650 (current price), up from USD 1,345 in 2010.
- The main sources of Districts GDP are manufacturing (60%), trade & hotel including restaurants (19%) and construction (4%).

Cianjur district

- The HDI grew up from 68.28 in 2007 to 70.02 in 2012 indicating a slight improvement in education, health and income of people residing in the district.
- During the 2010-2012 period, the district economy grew at about 5% per annum.
- The per capita income (at current price) in 2012 was about USD 900, up from about USD 750 in 2010 confirming the fact that the district is poorer than Bogor district.

Sukabumi district

- The HDI increased from 70.66 in 2010 to 71.50 in 2012 indicating a slight improvement of education, health and income of people, slightly better than Cianjur district but lower than that of Bogor district.
- The district economy grew at about 4.6% per annum during the 2010-2012 period.
- The per capita income (at current price) in 2012 was about USD 800 up from USD 750 in 2010 indicating the fact that people of Sukabumi are poorer than those of Bogor and Cianjur.
- The main sources of GDP in 2012 were agriculture (28%), trade, hotel & restaurant (26%) and manufacturing (17%) indicating the fact that the economy is less industrialized compared to Bogor's.

c. Environmental aspects

The CBR core area is rich in biodiversity both in terms of flora and fauna. Among the unique flora found in the area, include Edelweiss flower (*Anaphalis javanica*) that has been used as the symbol of successful wilderness adventuring and believed as the icon of eternity; Orchid (*Rafflesia rochussenii*) that exhibits interesting features; Nine-year flower (*Strobilanthus cernua*) that bears flower only once in nine years; Tropical pitcher plant (*Nephentes gymnamphora*) that is widely known as the cold blood killer because of its ability to kill insects using the pitcher located at the tip of its leaves; Balanophora (*Belanophora spp.*); *Kiaksara*/Petiole Macodes (*Macodes petola*); *Pinang Jawa*/Pinanga (*Pinanga javana*) and Tree fern (*Diksonia blumei*).

The forest ecosystems that occupy the CBR core area can be distinguished based on elevation as follows:

• 500-1,000 m : forest plantation of fast growing species

• 700-1,000 m : lowland rain forest dominated by Schima wallichii, Neesia altissima

and Luvunga sarmentosa

1,000-1,500 m : low mountain forest dominated by Schima wallichii, Castanopsis

javanica and Acronychia laurifolia

• 1,500-2,400 m : high mountain forest dominated by Schima wallichiia, Acronodia

punctata and Dacrycarpus imbricatus

• 2,400-3,019 m : sub-alpine vegetation, dominated by *Leptospermum flavescens*,

Myrsine affinis and Eurya obovata in association with Anapholis

javanica, Tripagon exiguus and Isactine pangerangensis

The richness of CBR core area in wildlife can be illustrated by findings of the National Academy of Sciences (NAS) as follows:

• Out of 450 bird species in Java Island, 260 species can be found in CBR.

- Out of 25 endemic species of Java, 21 species exist in CBR area.
- 110 mammal species are found in CBR area including those ones categorized as endangered species, i.e. Leopard (*Panther pardus*), Wild dog (*Cuon alpinus*), Muntjac (*Muntiacus muntjak*), Javan Gibbon (*Hylobates moloch*) and Javan Surili (*Presbytis comata*).
- 75 reptile species are known to live in the core area including Pseudocalotes (*Pseudocalotes spp.*), Common Sun Skink (*Mabuya multifasciata*), Phyton (*Phyton reticulatus*), and Oriental Whipsnake (*Ahaetulla prasina*).
- 20 amphibian species have been found in the core area.
- CBR area is also a host for about 300 insect species.

The CBR landscape is also a very important source of water for the surrounding areas including the capital city of Jakarta; the core area is estimated to produce 231 billion liters of water per year which flows into around 1,075 rivers and tributes (ITTO & GOI, 2010; Purwanto, et al., 2013). The CBR area comprises four water catchment areas, namely Ciliwung, Citarum, Cimandiri and Cisadane water catchment areas, which supply water for around twenty million people residing in Jakarta, Bogor, Depok, Tangerang and Bekasi areas.

In conclusion, CBR area is environmentally very important, not only because its richness in biodiversity but also due to its vital role in providing water for around twenty million people living inside and surrounding the biosphere. Therefore, protection and preservation of the biosphere, especially the core area, i.e. Gunung Gede Pangrango National Park (GGPNP) is, in fact, a matter of urgency.

1.4 Expected outcomes at project completion

At project completion, a number of outcomes and desired changes expected to materialize in the following manner:

i. Threat on biodiversity in the core area significantly reduced

The intended main functions of GGPNP as CBR core area are to preserve biodiversity and sustain ecosystem. To restore these functions, threat to biodiversity must be reduced by closely monitoring the existing biodiversity using a sound monitoring system, enriching biodiversity on poorly managed forest land areas including the lands under monoculture silviculture system and under conflicts with farmers as well as increasing capacity in forest monitoring involving local communities. Results or outcome of the pertinent activities will be used by the GGPNP Authority to improve conservation of biodiversity and ecosystems in the reserve in general, and in the core area in particular. Therefore, use of the biodiversity enrichment model, land conflict resolution model, enhanced squads of forest patrolling and sound monitoring system are expected to improve sustainability of biodiversity.

ii. Land use best practices in CBR buffer and transition zones demonstrated and promoted

To achieve this output, the zones must be properly developed in accordance with nature conservation and sustainable development principles. Therefore, suitable development

projects in the buffer and transition zones must be first identified: what sustainable livelihood activities are appropriate to be implemented at what sites. These suitable projects then need to be demonstrated and replicated with the assistance of GGPNP Authority and district governments.

The livelihood models developed under the projects are expected to be replicated by local communities and firms. To facilitate this replication process, training on needed skills will be carried out and technical manuals for each project will be produced and disseminated to be used by interested beneficiaries.

iii. Institutional arrangements for CBR management enhanced

The functioning of existing Coordination and Communication (CC) Forum will be enhanced through redefining the CC Forum's terms of reference and operational mechanisms. Formation of a CC Forum at the district level is envisaged. At the forum, stakeholders may need frequently to discuss on issues, challenges and opportunities as well as exchange information and experience relating to conservation and socioeconomic development.

By delivering the planned project outputs, it is expected that the conservation and sustainable management of biodiversity and ecosystems in CBR will be improving and such improvement shall contribute to restoring the conservation and development functions of CBR.

PART 2. PROJECT RATIONALE AND OBJECTIVES

2.1 Rationale

2.1.1 Institutional setup and organizational issues

Cibodas Biosphere Reserve (CBR) was designated by UNESCO in 1977 based on the proposal made by the Government of Indonesia (GOI) with the main purpose to promote an inter-disciplinary approach to research, training and communication in ecosystem conservation and rational use of natural resources. The CBR covers conservation area, natural landscape and cultivation area with a total area of about 114,779 hectares in total, comprising 22,851 hectares of core area, 12,700 hectares of buffer zone and 79,228 hectares of transition area.

A number of institutions are involved in CBR management. The Ministry of Environment and Forestry (MOEF) through the Directorate General of Natural Resource and Ecosystem Conservation (KSDAE) is responsible for the management of the core area, i.e. the Gunung Gede Pangrango National Park (GGPNP); the District Governments of Bogor, Cianjur and Sukabumi are responsible for community development in the buffer zone and transition area; the West Java Provincial Government is responsible for supervision of regional development; the National Academy of Sciences (NAS) are responsible for R&D coordination at the national level; and Man and Biosphere Programme of the UNESCO is responsible for guiding and supervising the overall management of the reserve. The immediate problem that arises is that the MOEF does not have a line command relation with the provincial as well as district governments nor with NAS and MAB Programme due to the fact that the provincial and district governments are under the command of the Ministry of Interior (MOI) while NAS and MAB Programme are independent national bodies. Therefore, coordination and communication among the institutions involved in the CBR management are truly a big challenge.

To overcome the coordination and communication problem, the West Java Governor as the "host" of CBR has issued a decree No. 552.51/2010 on the formulation of Coordination and Communication (CC) Forum on Cibodas Biosphere Reserve with the main task to carry out coordination and communication amongst the government authorities and with other CBR stakeholders. The CC Forum is a huge organization as evidenced by the large number of institutions and officers included in the structure of the organization that it has not functioned as expected due mainly to the extremely high operational cost involved in organizing meetings. Therefore, the CC Forum will have to be revisited and its structure modified in order to be able to move effectively in handling coordination and communication issues.

2.1.2 Stakeholder analysis

A series of stakeholder meeting involving the main stakeholders of CBR has been organized by the project proponent, the GGPNP Authority, during August-September 2014 that culminated on 15 September 2014. The main purpose of these meetings were to exchange information and experience of the participants and to obtain inputs as well as insights from the stakeholders especially as regards the main problem to be addressed by the project, its cause-effect relationship as well as needed interventions and strategy for implementation. It was found during the last meeting that the main stakeholders were supportive of the proposed project in terms of its objectives and design by providing valuable information on CBR current conditions, expressing their interest in CBR development and indicating their potential for involvement in project implementation. Results of the stakeholder analysis are summarized in Table 2.1.

Table 2.1: Summary of stakeholder analysis through consultative meetings

Stakeholder	Characteristics	Problem/need/interest	Potential	Involvement in the project
Primary stakeholders				1 7
i. Local communities				
Landless farmers	Forest dependents reside in and around National Park	Need lands for livelihood; have traditional skills	Acquire local knowledge	Implementation of selected activities
Land owners	Do farming practices as they wish; moderate income	Unproductive farming; need improved farming skills	Acquire experience in agriculture	Trainees
Traders, workers, etc.	Uncertain income; live in buffer zone and transition area	Need source of income; have no specific skills	Workers; traders of agriculture products	Implementation of selected activities or trainees
ii. Local private firms	Run various business relating to tourism and agriculture	Large number of tourists; lack interest in conservation	Able to invest; as entrepreneurs	As partner in livelihood development activities; member of PSC
iii. GGPNP Authority	Mandated to manage National Park; has professionals and resources	Degradation of National Park; protect the Park	Leading institution in CBR management	Executing Agency; Secretary of PSC
iv. District governments	Mandated for land use planning; responsible for community development; own professionals	Lack of accurate information on land use practices; biased towards economic development	May alter land use plan; have resources to undertake livelihood projects	Implement activities on buffer zone and transition area; member of PSC
Secondary stakeholders i. Provincial government	Has the influence on district governments; direct the CBR CC Forum	Lack of funding for CC Forum	Provide support to district government	Member of PSC
ii. Ministry of Environment and Forestry	Has the power to direct GGPNP Authority	GGPNP is sustainable	Budget allocation	Chairman of PSC
iii. Ministry of Interior	Has the power to direct district governments	Increased income of local communities	Budget allocation	Member of PSC

Stakeholder	Characteristics	Problem/need/interest	Potential	Involvement in the project
iv. NGOs	Familiar with local conditions; acquire skills for community development	Has no resources	To assist in rural development	Executor of selected activities; member of PSC
Tertiary stakeholders i. National Academy of Sciences	Pool of knowledge	Weak coordination with external scientists	Committed to conservation and development	Member of PSC
ii. MAB Programme	Political influence on international communities	Weak communication with CBR	Provides funding supervision	Member of PSC
iii. Universities	Pool of knowledge	Lack of financial resources	Monitoring and evaluation	Member of PSC
iv. Forestry R&D institutions	Pool of knowledge; has professionals	Lack of financial resources	Assessment of progress	Member of PSC

2.1.3 Problem analysis

The underlying notion of a biosphere reserve development is to harmonize conservation with sustainable economic development. Application of this concept to Cibodas Biosphere Reserve (CBR) is, therefore, to harmonize conservation of biodiversity with sustainable development by realizing a balanced relation between human and the nature. The concept of biosphere reserve development defines three complementary functions of CBR namely: i) conservation function to preserve genetic resources, species, ecosystems and landscapes, ii) development function to foster sustainable economic and human development, and iii) logistic support function to support demonstration projects, environmental education and training and research and monitoring related to local, national and global issues of conservation and sustainable development.

In order to deliver above defined functions, CBR has been designed to comprise three distinct areas, namely: i) the core area, i.e. the Gunung Gede Pangrango National Park (GGPNP) to be securely protected for conserving biodiversity, monitoring minimally disturbed ecosystems and undertaking non-destructive activities, ii) the buffer zone to be used for cooperative activities compatible with sound ecological practices including environmental education, recreation, ecotourism and research, and iii) the transition area or area of cooperation which may contain a variety of agricultural activities, settlements and other uses in which stakeholders work together to manage and sustainably develop the area's resources.

The consultative meetings of stakeholders found that CBR has not been functioning as intended to be as evidenced by the facts that forest and land degradation are occurring in the core area while utilization of landscapes in the buffer and transition zones is proceeding without due consideration on nature conservation but biased towards immediate economic gains. The consultative meeting, therefore, has defined the key problem to be addressed as "Inadequate conservation and sustainable management of biodiversity and ecosystems in CBR". If this problem remains, the conservation and development functions of CBR core area will be deteriorating over time, which is inconsistent with the intended objectives of biosphere reserve development as defined in the Seville Strategy and Madrid Action Plan.

The direct and indirect causes of the key problem identified by the stakeholder meeting are highlighted below:

- i) Biodiversity in the core area is continuously under threat. This threat is attributable to four major forces:
 - Significant portion of the core area is inappropriately managed for biodiversity conservation
 - ✓ Indeed, significant portion of the core area is particularly poor in biodiversity; about 4,367 hectares or 18.96% of the core area are managed under a monoculture silviculture system, planted with either agathis, eucalypt, pine or coffee only.
 - ✓ The lands under monoculture system are obviously poor in biodiversity.
 - Land use conflicts continue
 - ✓ Approximately 1,222 hectares of land or 5.31% of the core area are occupied by local people and used for planting such cash crops as vegetables, carrot, tomato, etc.
 - ✓ These lands are part of the area previously managed by Perhutani State Company as the production forest under the so called "community participatory forest management (PHBM)" which had been formally included as part of the core area since 2003 thus must function as the conservation area.
 - Illegal forest activities prevail
 - ✓ Some illegal activities by local people like harvesting of NTFPs , e.g. orchids, ornamental species, resin, etc. and hunting of endangered fauna, e.g. wild boars and porcupines, are still taking place as to date which may jeopardize conservation of biodiversity due mainly to weak capacity in forest patrolling.
 - ✓ The fact is that the core area of GGPNP is still an attractive source of income for some local people living surrounding the areas, i.e. in the buffer and transition zones.

- Weak monitoring system of biodiversity and ecosystems
 - ✓ Currently, monitoring of status and conditions of biodiversity and ecosystems is somewhat weak as a sound monitoring system has not been put in place.
- ii) Land use best practices improperly adopted in the buffer and transition zones. This problem is the result of at least four drivers, namely:
 - Existing land use plan is loosely implemented
 - ✓ Agriculture practices on sloping lands without land terracing, establishment of settlements and houses on disaster prone areas are not uncommon.
 - ✓ The basic notion is that the buffer and transition zones are to be utilized, to the
 extent possible, to protect the core area by preventing people from entering it.
 Therefore, the buffer and transition zones have to be utilized to provide strong
 incentive for local stakeholders to disregard the core area as a source of income.
 - ✓ The project needs to pilot suitable land use best practices for sustainable livelihood.
 - Lack of sustainable livelihood models
 - Examples of livelihood activities that are suitable for ecological conditions of the buffer and transition zones are insufficiently developed to promote sustainable development through improved understanding of local stakeholders on the link between conservation and sustainable development.
 - Lack of awareness of local stakeholders on conservation and sustainable development
 - Extension program on conservation and sustainable development is generally weak.
 - Communication between the GGPNP Authority, district governments and local stakeholders seems to be lacking as to date due mainly to the weak functioning of CC Forum.
 - Local people and firms are not trained on sustainable livelihood skills
 - ✓ The scarcity or absence of sustainable livelihood models does not facilitate
 conduct of training on needed skills for sustainable livelihood.
- iii) Weak institutional arrangements to support CBR management. This weakness is closely related to three sub-problems:
 - Existing CC Forum on CBR ineffectively functioning
 - ✓ The Forum is very costly to operate as it involves too many authorities at different levels of government.
 - ✓ Decision-making process is sluggish to deal with the dynamics of community lives.
 - Weak coordination among authorities in management planning
 - The management plan of CBR has been inadequately accommodated in district government development plans.
 - ✓ CBR management planning follows the policy of the Ministry of Environment and Forestry while district government planning follows the policy of the Ministry of Interior.
 - Lack of updated information to support decision-making
 - ✓ Authorities are not well informed of actual issues and progress in management operations.
 - √ The absence of updated information does not facilitate objective and effective decision-making process.

The cause effect relationship of the main problem addressed is summarized in Figure 1. The relevant and effective intervention should be derived from the Problem Tree by inverting it to become a Solution Tree, as shown in Figure 2, is to be used as the basis for defining the relevant project interventions.

Figure 1. Problem Tree

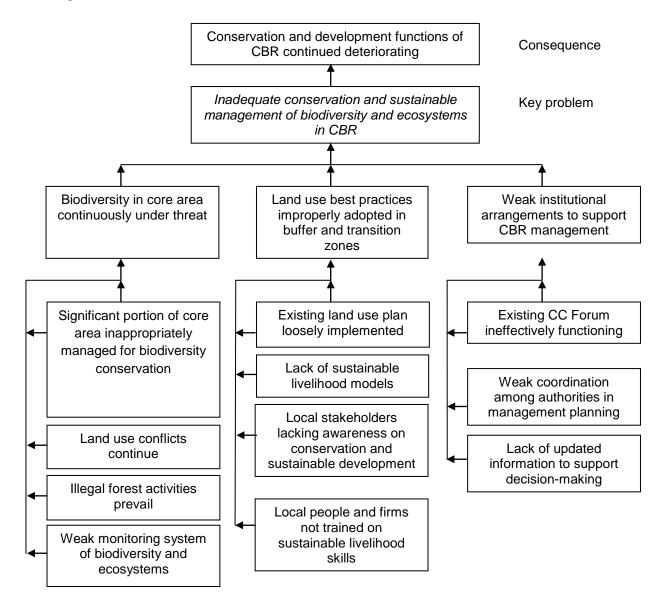
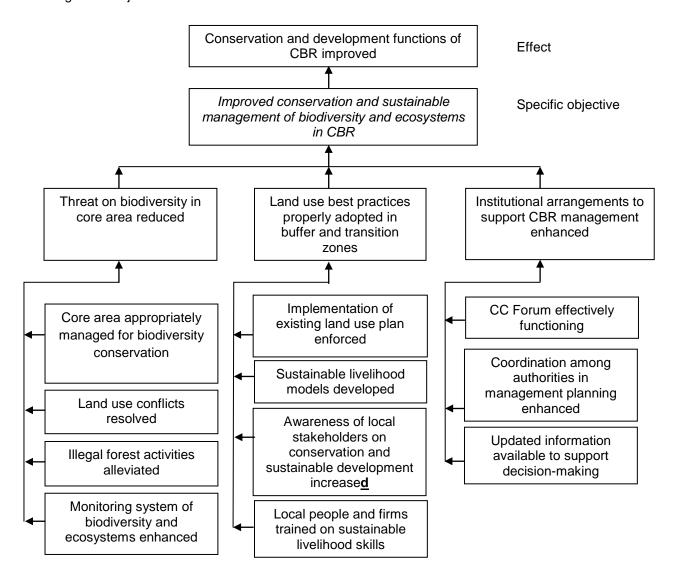


Figure 2. Objective Tree



2.1.4 Logical framework matrix

Table 2.2: The logical framework (LFM)

Strategy Intervention	Measurable indicators	Means of verification	Key assumptions
Development objective: To contribute to restoring the conservation and development functions of CBR	4 years after project completion 50% of poorly managed core area biologically enriched	GGPNP report	 GGPNP Authority and district governments remain committed to CBR conservation and development Good coordination between
	 Illegal forest activities in CBR core area abolished 50% of lands occupied by farmers rehabilitated Sustainable livelihood models replicated at at least 15 sites in 3 districts 	GGPNP report GGPNP report Field check/GGPNP report	MOEF and regional/district governments Cooperative farmers Cooperative local communities and firms
Specific objective: To improve conservation and sustainable management of	At project completion/end of year 3 - 2 biodiversity enrichment models established	Consultants report	Good coordination between MOEF and regional/district governments
biodiversity and ecosystems in CBR through implementation	1 land conflict resolution model agreed to by farmers and GGPNP Authority	Consultants report	Cooperative farmers
of the Integrated Strategic Management Plan	A sound monitoring system for biodiversity and ecosystems operational	Consultants report	-
	- 200 reps of beneficiaries trained on skills for 6 types of sustainable livelihood projects	Training reports	_
	- 3 CC Fora operational in 3 districts	Consultants report	Supportive district governments
Output 1 Threat on biodiversity in the core area significantly reduced	- 2 biodiversity enrichment models on 4 ha of land designed in Year 1 and established since Year 2	Consultants' report	_
	- A win-win land conflict resolution model identified in		

Strategy Intervention	Measurable indicators	Means of verification	Key assumptions
	Year 1 and applied since Year 2	Consultants' report	Cooperative farmers
	 60 community members trained on skills for monitoring of forest patrol operations A sound monitoring system for biodiversity and 	Training report	Cooperative farmers
	ecosystem developed in Year 1 and applied since Year 2	Consultants report	_
Output 2 Land use best practices in CBR buffer and transition zones	Actual land use practices in buffer and transition zones documented and evaluated in Year 1	Consultant's report	Good coordination between MOEF and regional/district governments
demonstrated and promoted	6 sustainable livelihood models identified in Year 1 and established in Years 2-3 in 3 districts	Field check; Consultant's report	Cooperative local communities and firms
	- 12 dialogues organized at sub-district level in Years 2-3 each involving 3-4 villages	Dialogue reports	Cooperative local communities
	- 200 reps of beneficiaries trained on sustainable livelihood skills in Years 2-3	Training reports	Cooperative local communities and firms
Output 3 Institutional arrangements for CBR management enhanced	CC Forum at 3 districts established in Year 1 and operational since Year 2	Minutes of CC Forum meetings	Supportive province and district governments
ermanced	- 3 district workshops on management planning organized in Years 1-3	Workshop reports	_
	- CBR information system installed in Year 1 and operational since Year 2	Consultant's report	_
	- Learning of lessons and experience from other reserves conducted in Years 1-3	Report on workshop and participation in biosphere reserve events	

2.2. Objectives

2.2.1 Development objective and impact indicators

The development objective of the project is to contribute to restoring the conservation and development functions of CBR. The impact indicators are:

4 years after project completion

- 50% of poorly managed core area biologically enriched
- Illegal forest activities in CBR core area abolished
- 50% of lands occupied by farmers rehabilitated
- Sustainable livelihood models replicated at at least 15 sites in 3 districts

2.2.2 Specific objective and outcome indicators

The specific objective of the project is to improve conservation and sustainable management of biodiversity and ecosystems in CBR through implementation of the Integrated Strategic Management Plan. The outcome indicators are:

At project completion/end of year 3

- 2 biodiversity enrichment models established
- 1 land conflict resolution model agreed to by farmers and GGPNP Authority
- A sound monitoring system for biodiversity and ecosystems operational
- 200 reps of beneficiaries trained on skills for 6 types of sustainable livelihood projects
- CC Fora operational in 3 districts

PART 3. DESCRIPTION OF PROJECT INTERVENTIONS

3.1. Outputs and Activities

3.1.1 Outputs

Three outputs have been defined correspond to the main causes of the problem addressed by the project as follows:

Output 1: Threat on biodiversity in the core area significantly reduced

Output 2: Land use best practices in CBR buffer and transition zones demonstrated and promoted

Output 3: Institutional arrangements for CBR management enhanced

3.1.2 Activities

Output 1

- Activity 1.1 : To enrich biodiversity on lands managed under monoculture silviculture system through planting of suitable diverse plant and tree species
- Activity 1.2: To resolve land conflicts with farmers by employing a win-win solution and replant the lands with diverse species of plants and trees
- Activity 1.3 : To enhance capacity in core area protection by involving local communities in forest patrol operations and providing essential facilities
- Activity 1.4 : To put in place a sound monitoring system of biodiversity and ecosystems

Output 2

- Activity 2.1 : To review implementation of existing land use plan and provide recommendations for repairing follow up actions
- Activity 2.2 : To establish sustainable livelihood models for demonstration and training in collaboration with local communities and private firms
- Activity 2.3: To increase awareness on conservation and sustainable development through intensive dialogues with local stakeholders and dissemination of attractive, easy to read printed materials
- Activity 2.4 : To train local people and stakeholders on skills needed to develop sustainable livelihood projects

Output 3

- Activity 3.1: To establish and operate CC Forum at district level
- Activity 3.2 : To organize three district workshops on management/development planning
- Activity 3.3 : To install and operate a publicly accessible CBR information system
- Activity 3.4: To learn lessons and experience from other biosphere reserves

3.2. Implementation approaches and methods

Experience shows that any unilaterally implemented project proved fail to achieve the planned objectives in an efficient manner. Therefore, the project will be implemented using participatory approach, i.e. planned activities shall be executed, as appropriate, in close consultation, cooperation and collaboration with stakeholders at different levels.

The specific objective of the project is "to implement adequate strategies for conservation and sustainable management of biodiversity and ecosystems in CBR" which will be achieved by delivering three outputs. Under the defined individual outputs, sufficient and the relevant activities have been identified; these activities will be implemented in the following fashion:

Output 1

This output will be delivered through execution of four pertinent activities. Activity 1.1
concerns with enrichment of biodiversity on poorly managed lands, i.e. the lands currently
used under a monoculture silvicuture system. The project will initiate a restoring process
by introducing an appropriate model in collaboration with competent professionals. A

technical manual will be produced to guide GGPNP Authority in carrying out biological restoration on the poorly managed lands after project completion.

- Activity 1.2 deals with land use conflict resolution. Currently, about 1,222 hectares of land or 5.31% of the core area are used by local people involving 2,763 households for planting of cash crops, which is inconsistent with biodiversity conservation. The project will identify a win-win land conflict solution through intensive consultation with the farmers involved. It is believed that biodiversity restoration can be successfully undertaken only on conflict-free landscapes for which a conflict resolution model will be developed. This activity is best to be implemented with the assistance of an experienced local NGO in working with similar issues in West Java. The GGPNP Authority does not have experienced professional staff(s) on social issues thus, it may focus only on supervision of operations. It must be noted, that a large number of farmer households have to be intensively consulted with patience and suitable communication techniques which will consume considerable time and efforts.
- Activity 1.3 concerns with forest patrolling. As to date, illegal activities are still going on in
 the core area which include harvest of NTFPs and illegal logging. Therefore, there is a
 need to enhance capacity in forest patrolling by involving local communities in the activity
 for which recruitment and training on needed skills are required. This activity also includes
 provision of basic facilities such as handy talkies and motor cycles.
- Activity 1.4 deals with monitoring of biodiversity of flora and fauna focusing on endangered species and unique ecosystems in the core area. A user friendly and scientifically sound monitoring system as well as monitoring plan will be developed and made operational in collaboration with the National Academy of Sciences (NAS).

Output 2

- To realize this output, four pertinent activities have to be implemented. Activity 2.1 deals with documentation of existing land use practices. Results of this work will be used as the basis for taking the necessary actions to repair irregularities of land use practices.
- Under activity 2.2, the most promising livelihood projects will be identified and demonstrated. Three areas of livelihood will be demonstrated:
 - ✓ Ecotourism: village-based or firm-based
 - ✓ Garbage utilization for different handicraft products depending on local conditions
 - ✓ Ecofarming for production of fruits, vegetables, fertilizers or livestock.

Two project under each business area will be developed in each district; that is, 6 livelihood projects will be developed in collaboration with local communities or firms for purposes of demonstration and training. Operation of these projects will be closely monitored by the GGPNP Authority and host district government and results disseminated through the information system or website yet to be installed.

This activity is best to be implemented with the assistance of a eco-friendly business consulting firm (BCF) in the form of sub-contract for at least two reasons: i) to ensure sound profitability and sustainability aspects of the projects and ii) the EA has no competence to properly undertake such ventures thus better to focus on monitoring of implementation processes. *Involvement of women in this activity will be given priority*.

- Activity 2.3 deals with awareness raising on nature conservation which has been initiated under the previous project. Under this proposed project, dialogues with local communities will be continued in the three districts. There now exist 59 villages in the buffer zone and 78 villages in transition area. The project will not be able to directly reach all these villages therefore only 12 dialogues will be organized at sub-district level, each involving 3-4 villages. An experienced senior staff(s) of GGPNP will be assigned temporarily to implement the activity. Participation of women in the dialogues must be strongly encouraged by the project.
- Activity 2.4 concerns with training on skills for livelihood activities. The primary target is
 community leaders and women, especially wives, as well as private firms in the three
 districts. Experience from the previous project indicates that it is best to focus on those
 three groups of stakeholders for an effective technology transfer. This activity is best to

be implemented with the assistance of BCF having experience in conducting training on different livelihood projects. In addition, the Park Authority has insufficient experience in carrying out such activity.

Output 3

- Activity 3.1 is an attempt to make existing CBR CC Forum functions well. Experience from
 the previous project shows that existing CBR CC Forum is very difficult and costly to
 operate. It is thought timely to evaluate the functioning of the existing CBR CC Forum and
 introduce its modified format. To form an operational forum at the district level is one of
 the options strongly considered.
- Activity 3.2 deals with management planning problem. Coordination problem between some ministries is not uncommon. The GGPNP is a subordinate of MOEF responsible for managing the national parks and the CBR that, in many instances, may place less priority to livelihood. The district governments on the other hand are subordinates of MOI responsible for promoting community development that, in many instances, pay less attention to conservation. This coordination problem could be minimized through coordinated planning process and shared real time information.
- Activity 3.3 is meant to developed a supporting system for decision-making by providing real time accessible data to GGPNP Authority and district government authorities as well as other stakeholders. The website developed will also serve as a tool for documenting and disseminating all information on CBR including lessons learned and experiences. The activity is an effective strategy for developing a CBR conservation knowledge center.
- Activity 3.4 will take the forms of international workshop on CBR and participation of CBR decision-makers in world biosphere reserve events. Today, the World Biosphere Reserve System comprises 377 reserves in 120 countries and CBR is member of the System. Organization of an international workshop on CBR and participation of decision makers in world biosphere reserve events will facilitate effective exchanging of information and learning of experience as regards biosphere reserve sustainable management of biodiversity and ecosystems.

3.3. Workplan

Table 3.1: Workplan for the entire project duration

Out world a division	Responsible		Yea	ar 1			Yea	ar 2			Yea	ar 3	
Output/Activity	party	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Output 1 Activity 1.1: To enrich biodiversity on lands managed under monoculture silviculture system through planting of suitable diverse plant and tree species	PC, NC	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Activity 1.2: To resolve land conflicts with farmers by employing a win-win solution and replant the lands with diverse species of plants and trees	PC, NGO	Х	Х	Х	Х	Х	X	Х	Х	Х	X	Х	Х
Activity 1.3: To enhance capacity in core area protection by involving local communities in forest patrol operations and providing essential facilities	PC, PA			Х	Х			Х	Х				
Activity 1.4: To put in place a sound monitoring system of biodiversity and ecosystems	PC, NC, PA	Х	Х	Х	Х	Х	X	Х	Х	Х	Χ	Х	Х
Output 2 Activity 2.1: To review implementation of existing land use plan and provide recommendations for repairing follow up actions	PC, NC, DGo	х	Х	Х	Х								
Activity 2.2: To establish sustainable livelihood models for demonstration and training in collaboration with local communities and private firms	PC, BCF, CL, BF			Х	Х	Х	Х	Х	Х	Χ	Χ		
Activity 2.3: To increase awareness on conservation and sustainable development through intensive dialogues with local stakeholders and dissemination of attractive, easy to read printed materials	PC, NE, DGo,					Х	Х	Х	Х	Х	X		
Activity 2.4 : To train local people and stakeholders on skills needed to develop sustainable livelihood projects	PC, BCF, CL, BF					Х	Х	Х	Х	Х	Χ		
Output 3 Activity 3.1 : To establish and operate CC Forum at the district level	PC, NE, DGo	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ	Х	Х
Activity 3.2 : To organize three district workshops on management/development planning	PC, NE, DGo	Х	Х			Х	Х			Х	Χ		
Activity 3.3 : To install and operate a publicly accessible CBR information system	PC, NC			Х	Х	Х	X	Х	Х	Х	Χ	Х	Х
Activity 3.4: To learn lessons and experience from other biosphere reserves	PC, EA			Χ	Χ			Χ	Χ				

3.4 Budget3.4.1 Master budget schedule

Output/Activity	Timing	Budget Compo-		Inputs	Unit		1770		Quantit				Unit Cost		ITTO Con	tribution			Gol Cor	tribution		Grand Total
		nent				Year 1	ITTO Year 2	Vear 3	Year 1	GOI Year 2	Year 3	Total		Year 1	Year 2	Year 3	Total	Year 1	Year 2	Year 3	Total	
1	2	3	\vdash	Δ	5	6	7	8	9	10	11		12	13	14	15	16	17	18	19	20	21
-			\vdash									-							-	-	-	
Activity 1.1: To enrich biodiversity	Q1-Q4, Y1	15	а	National Expert	MM	_	_	_	2	2	2	6	600	_	_	_	_	1.200	1.200	1.200	3.600	3.600
on lands managed under	Q1-Q4, Y2	31.2	ь	DSA, NE	MD	30	15	15	-	_		60	80	2.400	1.200	1.200	4.800	-	_	_		4.800
monoculture silviculture system	Q1-Q4, Y3	33	c	Local transport	TD	_		_	15	15	15	45	60			_		900	900	900	2.700	2.700
through planting of suitable diverse	4- 4.7	65	d	2 Demoplots	На	4			2			6	1.500	6.000	_		6.000	3.000		-	3.000	9.000
plant and tree species		64.1	e	Technical Meeting	Meeting		_		1	1	1	3	500	-	_			500	500	500	1.500	1.500
		63.2	f	Publication, manual	Сору		_	100				100	15		_	1.500	1.500			-		1.500
			Ė		2077							-			_	-			_	_	_	-
Sub total			Н											8.400	1.200	2.700	12.300	5.600	2.600	2,600	10.800	23,100
			Н									-			_			-	-	-		-
Activity 1.2 : To resolve land	Q1-Q4, Y1	21	а	Sub-contract 1:	contract	0,7			0,3	-	-	1	12.000	8.400	_	_	8.400	3.600	_	_	3.600	12.000
conflicts with farmers by employing	Q1-Q4, Y2	64.1	ь	Technical meetings	Meeting	1	1	1	1	1	1	6	500	500	500	500	1.500	500	500	500	1.500	3.000
a win-win solution and replant the	Q1-Q4, Y3		С	2 Demoplots land	Ha		3			2		5	1.500	-	4.500	_	4.500	_	3.000	_	3.000	7.500
lands with diverse species of plants	4- 4.7	65		rehabilitation			_					_						1				
and trees		63.3	d	Publication, manual	сору			200				200	15	-	-	3.000	3.000	-	-	-	-	3.000
												-		-	-	-	-	-	-	-	-	-
Sub total														8.900	5.000	3,500	17.400	4.100	3,500	500	8.100	25,500
Activity 1.3: To enhance capacity in	Q3-Q4, Y1	66	а	2 Trainings, @ 20	MD	60	120	-	-	-	-	180	30	1.800	3.600	-	5.400	-	-	-	-	5.400
core area protection by involving	Q1 - Q4, Y2	16	ь	Trainers	MD	10	10	-	-	-	-	20	125	1.250	1.250	-	2.500	-	-	-	-	2.500
local communities in forest patrol		64.1	c	Technical Meetings	Meeting	1	1	-	1	1	-	4	500	500	500	-	1.000	500	500	-	1.000	2.000
operations and providing essential		44	d	Purchase 6 motor cycles	Unit	2	2	-	1	1	-	6	2.000	4.000	4.000	-	8.000	2.000	2.000	-	4.000	12.000
facilities												-		-	-	-	-	-	-	-	-	-
Sub total			$oxed{oxed}$											7.550	9.350	-	16.900	2.500	2.500	-	5.000	21.900
Activity 1.4: To put in place a sound	Q1-Q4, Y1	14	а	National Consultant	MM	3	1	1	-	-	-	5	2.500	7.500	2.500	2.500	12.500	-	-	-	-	12.500
monitoring system of biodiversity	Q1 - Q4, Y2	31.2	ь	DSA, NC	MD	10	10	10	-	-	-	30	80	800	800	800	2.400	-	-	-	-	2.400
and ecosystems	Q1-Q4, Y3	67	С	Monitorng equipment	Package	1	-	-		-	_	1	15.001	15.001	_	-	15.001	-	-	-	-	15.001
		33	d	local transport	TD		_	_	10	10	10	30	60	_	_	_		600	600	600	1.800	1.800
		64.1	_	Technical meetings	Meeting	1	1	1	1	1	1	6	500	500	500	500	1.500	500	500	500	1.500	3.000
		63.3.	- -	Publication, manual	_	100						100	20	2.000	300	300	2.000	300	300	300	1.500	2.000
5.5		63.3.	T	rublication, manual	сору	100	-	-	_	-	-	100	20		2 000	2.000		1 100	1 100	1 100	2 200	
Sub total		-	\vdash											25.801	3.800	3.800	33.401	1.100	1.100	1.100	3.300	36.701
Total Output1														50.651	19.350	10.000	80.001	13.300	9.700	4.200	27.200	107.201

												I								П	Т	
Activity 2.1 : To review	Q1 - Q4, Y1	14	а	National Consultant	MM	4	-	-	-	-	-	4	2.500	10.000	-	-	10.000	-	-	-	-	10.000
implementation of existing land use		31.2	ь	DSA National Consultant	MD	30	-	-	-	-	-	30	80	2.400	-	-	2.400	-	-	-	-	2.400
plan and provide recommendations		64.1	c	Technical Meetings	Meeting	2			1			3	756	1.512	_		1.512	756	_	_	756	2.268
for repairing follow up actions		33	d	Local transport	Trip	10	_	_	-	_	_	10	60	600	_	_	600	-	_	_		600
												-		-	-	-	-	-	-	-	-	
Sub total			Г			\Box								14.512	-	-	14.512	756	-	-	756	15.268
												-		-	-	-	-	-	-	-	-	-
Activity 2.2 : To establish	Q3 - Q4, Y1	23	а	Sub-contract 2: to	Model	1	2	3	-	-	-	6	8.000	8.000	16.000	24.000	48.000	-	-	-	-	48.000
sustainable livelihood models for	Q1 - Q4, Y2	64.1	ь	Technial meetings	Meeting	1	1	1	2	2	2	9	750	750	750	750	2.250	1.500	1.500	1.500	4.500	6.750
demonstration and training in collaboration with local	Q1 - Q2, Y3											-		-	-	-	_	-	-	-		-
communities and private firms														_	_	_	_	_	_	_		_
Sub total			├		\vdash	$\vdash \vdash \vdash$								8,750	16.750	24,750	50.250	1.500	1.500	1.500	4,500	54.750
Subtotal		\vdash	┌		\vdash	$\vdash \vdash$								0.750	10.750	24.730	30.230	1.500	1.500	1.500	4.300	34.730
Activity 2.3: To increase awareness		15	а	National experts, salary	MM	-	-	_	2	2	2	6	600	-	-	_	_	1.200	1.200	1.200	3.600	3.600
on conservation and sustainable	Q1 - Q4, Y2		ь	12 Dialogues with local	session	3	6	3	_	_		12	900	2.700	5.400	2.700	10.800	_	_	_		10.800
development through intensive	~- ~-,	64.4.	'	community at 36 villages				-														
dialogues with local stakeholders	Q1 - Q2, Y3	31.3	c	DSA, NE	MD	9	18	9	-	-	-	36	80	720	1.440	720	2.880	-	-	-	-	2.880
and dissemination of attractive, easy		64.1	d	Technical meetings	Meeting	1	1	1	1	1	1	6	750	750	750	750	2.250	750	750	750	2.250	4.500
to read printed materials		33	e	local transport	TD	-	-	-	9	18	9	36	60	-	-	-	-	540	1.080	540	2.160	2.160
		63.4	f	Publications	Сору	-	500	500	-	500	500	2.000	5	-	2.500	2.500	5.000	-	2.500	2.500	5.000	10.000
		└	<u> </u>		——	└						-		-	-	-	-	-	-	-	-	-
Sub total			⊢			igspace								4.170	10.090	6.670	20.930	2.490	5.530	4.990	13.010	33.940
Activity 2.4 : To train local people	Q1 - Q4, Y2	24	3	Sub contract 3: To	Session		3	3		_		6	8.000		24.000	24.000	48.000	_	_			48.000
and stakeholders on skills needed to	Q1 - Q2, Y3	64.1	ь	Technical meetings	Meeting		1	1	_	2	2	6	750	_	750	750	1.500	_	1.500	1.500	3.000	4.500
develop sustainable livelihood	, /-	07.1		-																		
projects												-		-	-	_	-	•	•	-		•
Sub total			├		$\vdash \vdash \vdash$	$\vdash \vdash \vdash$								-	24.750	24.750	49.500	-	1.500	1.500	3.000	52,500

			l															ı				
Activity 3.1: To establish and	Q1 - Q4, Y1	15	а	National Experts	MM	-	-	-	2	2	2	6	600	-	-	-	-	1.200	1.200	1.200	3.600	3.600
operate CC Forum at the district	Q1 - Q4, Y2	64.2	ь	Coordination meetings	Meeting	2	-	-	-	1	1	4	1.000	2.000	-	-	2.000	-	1.000	1.000	2.000	4.000
level	Q1 - Q4, Y3	31.3	С	DSA, National Experts	MD	10	10	10	-	-	-	30	80	800	800	800	2.400	-	-	-	-	2.400
		63.4	d	Publication	Сору	150						150	15	2.250	-	-	2.250	-	-	-	-	2.250
		33	е	Local trasnport	TD	-	-	-	10	10	10	30	60	-	-	-	-	600	600	600	1.800	1.800
												-		-	-	-	-	-	-	-	-	
Sub total														5.050	800	800	6.650	1.800	2.800	2.800	7.400	14.050
												-		-	-	-	-	-	-	-	-	-
Activity 3.2: To organize three	Q1-Q2, Y1	15	а	National Expert, salary	MM	-	-	-	2	2	2	6	600	-	-	-	-	1.200	1.200	1.200	3.600	3.600
district workshops on	Q1 - Q2, Y2	31.2	b	DSA, National Expert	MD	10	10	10	-	-	-	30	80	800	800	800	2.400	-	-	-	-	2.400
management/development	Q1 - Q2, Y3	33	С	Local transport	TD				10	10	10	30	60	-	-	-	-	600	600	600	1.800	1.800
planning		64.1	d	Technical meetings	Meeting	1	1	1	-	-	-	3	500	500	500	500	1.500	-	-	-	-	1.500
		64.3	e	Workshop 3 training @ 15	Meeting	1	1	1	-	-	-	3	1.500	1.500	1.500	1.500	4.500	-	-	-	-	4.500
				persons																		
		63.4	f	Publication, Manuals	Сору	-	-	100	-	-	-	100	15	-	-	1.500	1.500	-	-	-	-	1.500
												-		-	-	-	-		-	-	-	-
Sub total														2.800	2.800	4.300	9.900	1.800	1.800	1.800	5.400	15.300
Activity 3.3: To install and operate a	Q3 - Q4, Y1	14	а	National Consultant	MM	1	1	1	-	-	-	3	2.500	2.500	2.500	2.500	7.500	-	-	-	-	7.500
publicly accessible CBR information	Q1 - Q4, Y2	31.2	ь	DSA, NC	MD	5	5	5	-	-	-	15	80	400	400	400	1.200	-	-	-	-	1.200
system	Q1 - Q4, Y3	33	С	Local transport	TD	-	-	-	5	5	5	15	60	-	-	-	-	300	300	300	900	900
		45	d	Equipment	unit	1	1	-	-	-	-	2	6.000	6.000	6.000	-	12.000	-	-	-	-	12.000
		64.1	е	Technical meetings	Meeting	-	-	-	1	1	1	3	300	-	-	-	-	300	300	300	900	900
		63.4	f	Publication	Сору	150	-	-	-	-	-	150	17	2.475	-	-	2.475	-	-	-	-	2.475
												-		-	-	-	-		-	-	-	
Sub total														11.375	8.900	2.900	23.175	600	600	600	1.800	24.975
Activity 3.4: To learn lessons and	Q3 - Q4, Y1	68	а	International Workshop	Package	-	-	0,7	-	-	0,3	1	30.000	-	-	21.000	21.000	-	-	9.000	9.000	30.000
experience from other biosphere	02.04.22			on CBR	T								F 000	5.000	5.000		40.000					40.000
reserves	Q3 - Q4, Y2	69	ь	International Event	Trip	1	1	-	-	-	-	2	5.000	5.000	5.000	-	10.000		-	-	-	10.000
	Q3 - Q4, Y3					-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	
Sub total			_			-	-	-	-	-	-	-	-	5,000	5,000	21.000	31.000	-	_	9,000	9,000	40,000
Total Output 3														24.225	17.500	29.000	70.725	4.200	5.200	14.200	23.600	94.325
Total Project						-							_	102.308	88.440	95.170	285.918	22.246	23,430	26.390	72.066	357.984
Total Project										_				102.500	00.440	55.170	205.510	22.240	25.450	20.550	72.000	337.364

Non Based Activities																				
		Key Personal																		
	11	Project Coordinator	MM	12	12	12				36	2.200	26.400	26.400	26.400	79.200	-	-	-	-	79.20
	12	Project Treasurer	MM	12	12	12				36	500	6.000	6.000	6.000	18.000	-	-	-	-	18.00
	13	Project Secretary	MM	12	12	12	12	12	12	72	500	6.000	6.000	6.000	18.000	6.000	6.000	6.000	18.000	36.00
		Office																		
	51	Space 40 M2	Month	-	-	-	12	12	12	36	500	-	-	-	-	6.000	6.000	6.000	18.000	18.00
	52	Facilities	Set	-	-	-	1			1	5.000	-	-	-	-	5.000	-	-	5.000	5.00
	53	Consumable	Month	-	-	-	12	12	12	36	250	-	-	-	-	3.000	3.000	3.000	9.000	9.00
		Office Equipment																		
	41	Personal Computer	Set	1	-	-	1			2	800	800	-	-	800	800	-	-	800	1.60
		Duty Travel																		
	32	Airtickets	Trip	3	3	3				9	200	600	600	600	1.800	-	-	-	-	1.80
	31.1	DSA, 12 trip @ 2 days	MD	12	12	12				36	80	960	960	960	2.880	-	-	-	-	2.88
	33	local transport	TD	-	-	-	12	12	12	36	60	-	-	-	-	720	720	720	2.160	2.16
		Miscellaneous																		
	61	PSC Meeting	Meeting	1	1	-			2	4	1.500	1.500	1.500	-	3.000	-	-	3.000	3.000	6.000
	62	Financial Auditing	Year	1	1	1				3	1.750	1.750	1.750	1.750	5.250	-	-	-	-	5.25
	63.1	Publication, 4 reports @ 100 copies	Сору	-	200	200				400	20	-	4.000	4.000	8.000	-	-	-	-	8.00
	54	sundries	Year	1	1	1				3	1.500	1.500	1.500	1.500	4.500	-	-	-	-	4.50
Total Non-activity based												45.510	48.710	47.210	141.430	21.520	15.720	18.720	55.960	197.39
Grand Total Project Costs												147.818	137.150	142.380	427.348	43.766	39.150	45.110	128.026	555.37
ITTO Monitoring and Review															18.000					18.00
ITTO Monitoring and Keview															15.000					15.00
ITTO Programme Support															55.242					55.24
National Management Cost															33.242					33.24
vational Management Cost															E1E E00				120.026	CA2 C1
															515.590				128.026	643.616

Notes:

Y1 = Year 1; Y2 = Year 2; Y3 = Year 3.

3.4.2 Yearly consolidated budget

Category	Description	Total	Year 1	Year 2	Year 3
10	Personnel				
11	Project Coordinator	79.200,00	26.400,00	26.400,00	26.400,00
12	Project Treasurer	18.000,00	6.000,00	6.000,00	6.000,00
13	Project Secretary	36.000,00	12.000,00	12.000,00	12.000,00
14	National Consultants	30.000,00	20.000,00	5.000,00	5.000,00
15	National Experts	14.400,00	4.800,00	4.800,00	4.800,00
16	Trainer	2.500,00	1.250,00	1.250,00	-
19	Sub total	180.100,00	70.450,00	55.450,00	54.200,00
20	Sub contracts				
21	Sub contract No. 1 NGO (Land use conflict	12.000,00	12.000,00	-	-
22	Sub contract No. 2: Bussiness Consulting Firm a	48.000,00	8.000,00	16.000,00	24.000,00
24	Sub contract No. 3: Bussiness Consulting Firm b	48.000,00	-	24.000,00	24.000,00
29	Sub total	108.000,00	20.000,00	40.000,00	48.000,00
30	Duty Travel				
31	Daily Subsistance Allowance				
	31.1. DSA Project Management Unit	2.880,00	960,00	960,00	960,00
	31.2. DSA National Consultant	10.800,00	6.000,00	2.400,00	2.400,00
	31.3. DSA National expert	7.680,00	2.320,00	3.040,00	2.320,00
32	Air ticket				
	32.1. Air Ticket	1.800,00	600,00	600,00	600,00
33	Local Transport	13.920,00	4.860,00	4.800,00	4.260,00
39	Sub total	37.080,00	14.740,00	11.800,00	10.540,00
40	Capital Items				
41	Personal Computer	1.600,00	1.600,00	-	-
42	Handy Talkies	-	-	-	-
43	Repeater	-	-	-	-
44	Motor cycles (6 units)	12.000,00	6.000,00	6.000,00	-
45	Equipment	12.000,00	6.000,00	6.000,00	-
49	Sub total	25.600,00	13.600,00	12.000,00	-
50	Consumables items				
51	Space 40 M2	18.000,00	6.000,00	6.000,00	6.000,00
52	Facilities	5.000,00	5.000,00	-	-
53	Consumables	9.000,00	3.000,00	3.000,00	3.000,00
54	Sundries	4.500,00	1.500,00	1.500,00	1.500,00
59	Sub total	36.500,00	15.500,00	10.500,00	10.500,00

60	Miscellaneous				
61	PSC meetings	6.000,00	1.500,00	1.500,00	3.000,00
62	Financial Audit	5.250,00	1.750,00	1.750,00	1.750,00
63	Publication				
	63.1. 5 Report @100 copies	8.000,00	-	4.000,00	4.000,00
	63.2. Technical Manual	3.000,00	-	-	3.000,00
	63.3. SOP	3.000,00	-	-	3.000,00
	63.4. Publicaton	18.225,00	6.725,00	5.000,00	6.500,00
64	Meeting				
	64.1. Technical Meeting	28.418,00	10.318,00	10.300,00	7.800,00
	64.2. Coordinating Meeting	4.000,00	2.000,00	1.000,00	1.000,00
	64.3. Workshop	4.500,00	1.500,00	1.500,00	1.500,00
	64.4. Dialogue with local community	10.800,00	2.700,00	5.400,00	2.700,00
65	Demoplot	16.500,00	9.000,00	7.500,00	-
66	Training	5.400,00	1.800,00	3.600,00	-
67	Monitoring and Tool	15.001,00	15.001,00	-	-
68	International Workshop on CBR	30.000,00	-	-	30.000,00
69	International Event	10.000,00	5.000,00	5.000,00	-
69	Sub total	168.094,00	57.294,00	46.550,00	64.250,00
70	Total Project	555.374,00	191.584,00	176.300,00	187.490,00
80	National management cost	-	(See exe	cuting agenc	y budget)
90	Project monitoring and administration				
91	ITTO monitoring & review	18.000,00			
92	ITTO ex-post evaluation	15.000,00			
95	ITTO Programme support (70 + 91 +92) x 12%	55.241,76			
100	Total Project Monitoring and Administration	88.241,76			
	GRAND TOTAL (70 + 100)	643.615,76			

3.4.3 ITTO yearly budget

Category	Description	Total	Year 1	Year 2	Year 3
10	Personnel				
11	Project Coordinator	79.200,00	26.400,00	26.400,00	26.400,00
12	Project Treasurer	18.000,00	6.000,00	6.000,00	6.000,00
13	Project Secretary	18.000,00	6.000,00	6.000,00	6.000,00
14	National Consultants	30.000,00	20.000,00	5.000,00	5.000,00
15	National Experts	-	-	-	-
16	Trainer	2.500,00	1.250,00	1.250,00	-
19	Sub total	147.700,00	59.650,00	44.650,00	43.400,00
20	Sub contracts				
21	Sub contract No. 1 NGO (Land use conflict	8.400,00	8.400,00	-	-
22	Sub contract No. 2: Bussiness Consultant	48.000,00	8.000,00	16.000,00	24.000,00
24	Sub contract No. 3: Bussiness Consultant	48.000,00	-	24.000,00	24.000,00
29	Sub total	104.400,00	16.400,00	40.000,00	48.000,00
30	Duty Travel				
31	Daily Subsistance Allowance				
	31.1. DSA Project Management Unit	2.880,00	960,00	960,00	960,00
	31.2. DSA National Consultant	6.000,00	3.600,00	1.200,00	1.200,00
	31.3. DSA National expert	12.480,00	4.720,00	4.240,00	3.520,00
32	Air ticket				
	32.1. Air Ticket	1.800,00	600,00	600,00	600,00
33	Local Transport	600,00	600,00	-	-
39	Sub total	23.760,00	10.480,00	7.000,00	6.280,00
40	Capital Items				
41	Personal Computer	800,00	800,00	-	-
42	Handy Talkies	-	-	-	-
43	Repeater	-	-	-	-
44	Motor cycles (6 units)	8.000,00	4.000,00	4.000,00	-
45	Equipment	12.000,00	6.000,00	6.000,00	-
49	Sub total	20.800,00	10.800,00	10.000,00	-
50	Consumables items				
54	Sundries	4.500,00	1.500,00	1.500,00	1.500,00
59	Sub total	4.500,00	1.500,00	1.500,00	1.500,00

60	Miscellaneous				
61	PSC meetings	3.000,00	1.500,00	1.500,00	-
62	Financial Audit	5.250,00	1.750,00	1.750,00	1.750,00
63	Publication				
	63.1. 5 Report @100 copies	8.000,00	-	4.000,00	4.000,00
	63.2. Technical Manual	1.500,00	-	-	1.500,00
	63.3. SOP	3.000,00	-	-	3.000,00
	63.4. Publicaton	13.225,00	6.725,00	2.500,00	4.000,00
64	Meeting				
	64.1. Technical Meeting	13.012,00	5.012,00	4.250,00	3.750,00
	64.2. Coordinating Meeting	2.000,00	2.000,00	-	-
	64.3. Workshop	4.500,00	1.500,00	1.500,00	1.500,00
	64.4. Dialogue with local community	10.800,00	2.700,00	5.400,00	2.700,00
65	Demoplot	10.500,00	6.000,00	4.500,00	-
66	Training	5.400,00	1.800,00	3.600,00	-
67	Monitoring and Tool	15.001,00	15.001,00	-	-
68	International Workshop on CBR	21.000,00	-	-	21.000,00
69	International Event	10.000,00	5.000,00	5.000,00	-
69	Sub total	126.188,00	48.988,00	34.000,00	43.200,00
70	Total Project	427.348,00	147.818,00	137.150,00	142.380,00
80	National management cost	-	(See executing agency budget)		
90	Project monitoring and administration				
91	ITTO monitoring & review	18.000,00			
92	ITTO ex-post evaluation	15.000,00			
95	ITTO Programme support (70 + 91 +92) x 12%	55.241,76			
100	Total Project Monitoring and Administration	88.241,76			
	GRAND TOTAL (70 + 100)	515.589,76			

3.4.4 Executing agency yearly budget (GOI)

Category	Description	Total	Year 1	Year 2	Year 3
10	Personnel				
12	Project Treasurer	18.000,00	6.000,00	6.000,00	6.000,00
14	National Consultants	-	-	-	-
15	National Experts	14.400,00	4.800,00	4.800,00	4.800,00
19	Sub total	32,400,00	10.800,00	10.800,00	10.800,00
20	Sub contracts				
21	Sub contract No. 1 NGO (Land use conflict	3.600,00	3.600,00	-	-
29	Sub total	3.600,00	3.600,00	-	-
30	Duty Travel				
33	Local Transport	13.320,00	4.260,00	4.800,00	4.260,00
39	Sub total	13.320,00	4.260,00	4.800,00	4.260,00
40	Capital Items				
41	Personal Computer	800,00	800,00	-	-
44	Motor cycles (6 units)	4.000,00	2.000,00	2.000,00	-
49	Sub total	4.800,00	2.800,00	2.000,00	-
50	Consumables items				
51	Space 40 M2	18.000,00	6.000,00	6.000,00	6.000,00
52	Facilities	5.000,00	5.000,00	-	-
53	Consumables	9.000,00	3.000,00	3.000,00	3.000,00
54	Sundries	-	-	-	-
59	Sub total	32.000,00	14.000,00	9.000,00	9.000,00
60	Miscellaneous				
61	PSC meetings	3.000,00	-	-	3.000,00
63	Publication				
	63.4. Publicaton	5.000,00	-	2.500,00	2.500,00
64	Meeting				
	64.1. Technical Meeting	16.906,00	5.306,00	6.050,00	5.550,00
	64.2. Coordinating Meeting	2.000,00	-	1.000,00	1.000,00
65	Demoplot	6.000,00	3.000,00	3.000,00	-
68	International workshop	9.000,00	-	-	9.000,00
69	Sub total	41.906,00	8.306,00	12.550,00	21.050,00
70	Total Project	128.026,00	43.766,00	39.150,00	45.110,00
80	National management cost	-	(See executing agency budget)		(budget)
	GRAND TOTAL (70 + 100)	128.026,00			

3.5 Assumptions, risks and sustainability

3.5.1 Assumptions and risks

The key assumptions made as regards achievements of the outputs and objectives of the project are closely related to commitment/support of government authorities to CBR conservation and development, cooperativeness of farmers, local communities as well as the private sector, which are all beyond the control of the project. If these assumptions do not hold, potential risks may materialized thus jeopardized achievement of planned outputs and objectives. The key assumptions, potential risks and mitigating measures are presented in Table 3.2.

Table 3.2: Key assumptions, potential risks and mitigating measures

Key assumptions	Potential risks	Mitigating measures
Government authorities committed to CBR conservation and development	 Existing CC Forum will continue ineffectively functioning; output 3 not fully delivered Development objective not achieved 	 Project management to convince the government authorities on the advantages of operating a CC Forum at district level Project management to request for GGPNP Authority and district governments to allocate sufficient funds for sustaining project activities
Cooperative farmers	Land conflicts in the core area will prevail and delayed rehabilitation of farmers' occupied lands	 Intensive dialogue with farmers by experienced professionals A win-win solution is to be defined based on local conditions
Cooperative local communities and business firms	Sustainable livelihood models cannot be developed efficiently	 Intensive consultations with local communities and firms by experienced business professionals To convince local communities and business firms that current use of resources is not the best option
Good coordination between MOEF and regional/district governments	Inefficient implementation operations	Intensive consultation and communication amongst the parties

It should be noted that land conflict is recognized as a national issue as it takes place in nearly all over the country. Effective resolution to any land conflict, however, is to be site specifically designed based on local socio-cultural, economic and environmental conditions. Otherwise, the land conflicts resolution arrived at would not be successful in achieving its intended purpose.

3.5.2 Sustainability

Sustainability of the project rests very much with its primary beneficiaries, namely GGPNP Authority, local communities, private sector and district governments. Full execution of Activities 1.1 through 1.4 should improve the well functioning and sustainability of the core area thus improves performance of the authority mandated to conserve the national park. Therefore, there is a strong incentive for the GGPNP Authority to sustain the project.

The local communities and private firms in the buffer and transition zones will be benefited from the development activities demonstrated under the project and replicated at later stage; the benefits accruable to these beneficiaries will serve as a strong incentive to sustain the project.

The district governments are responsible for community development in the buffer and transition zones. The development activities implemented in the areas will surely generate job opportunities and additional income to local communities and firms which in turn generate larger tax revenues for the governments. Therefore, there is the very reason for the district governments to support sustainability of the project.

Most importantly, an effective and realistic exit strategy will be defined prior to the project completion to ensure its sustainability. Such a strategy should establish what project activities should be continued or expanded, identify the institutions responsible for implementing these activities and indicate sources of inputs to implementing the activities.

The institutional arrangements for continuing implementation of the activities initiated under the project are highlighted below:

- Implementation of the activities relating to conservation of biodiversity and ecosystems in the core area will be the full responsibility of the GGPNP Authority.
- Implementation of the activities relating to land use and livelihood in the buffer and transition zones will be the full responsibility of the district governments with the supervision and assistance of the GGPNP Authority. This must be so to ensure coordinated planning of CBR management as well as synergized monitoring of management operations.
- Operation of the district CC Forum will be led by the respective district governments with GGPNP Authority providing technical and financial assistance.
- The CBR database system will be operated by GGPNP and to be made accessible by the district government authorities and other interested parties.

PART 4. IMPLEMENTATION ARRANGEMENTS

4.1. Organization structure and stakeholder involvement mechanism

4.1.1 Executing agency and partners

The executing agency (EA) of the project is the GGPNP Authority of DG KSDAE of the MOEF. This authority has acquired experience in implementing ITTO-assisted project. The primary tasks of the EA include planning of project operations, selection and appointment of key project personnel and other professionals, provision of office space and facilities, and allocation of state counter budget. The profile of GGPNP Authority appears in Annex 1.

Partners of the EA in implementing the project include: national consultants, university, NGOs, and NAS. A full timer Project Coordinator will be appointed by the EA to manage operations of the project on a day-to-day basis with the prior approval of ITTO. The organizational chart of the project is depicted in Annex 2.

4.1.2 Project management team

A project management team (PMT) will be established by the EA and will consist of a Project Coordinator (PC), Project Secretary (PS), Project Finance (PF), and Project Technicians (PT). As appropriate, planned project activities will be executed with the assistance of partners, mainly Consultants, NGOs, University, NAS, and District government authorities.

The curricula vitae of the professionals to be appointed by the EA along with their terms of reference appear in Annex 3. The TOR of PC, PS, PF, and PT are presented in Annex 4.

4.1.3 Project steering committee (PSC)

A PSC shall be established prior to commencement of project operations, with the main tasks to oversee progress in project implementation in light of the logical framework, review and approve work plans and associated budgets as well as progress reports and review any changes to the project design, endorse or otherwise such proposed changes. Membership of the PSC will be:

- A chairperson appointed by DG KSDAE
- Rep. of Directorate of Conservation Areas KSDAE
- Rep. of NAS/MAB Programme
- Rep. of Provincial Government of West Java
- Reps. of District Government of Cianjur, Sukabumi and Bogor
- Reps. of Local Universities
- Community representatives
- ITTO representative
- Donor representatives

The PSC shall meet at least once a year; a special meeting may be called forth by the EA at any time as need arises. The official language of the PSC is English.

4.1.4 Stakeholder involvement mechanism

A stakeholder forum is built in to the organizational structure as shown in Annex 2. The forum takes the forms as the PSC and CBR CC Forum to be established at the district level. The CC Forum, to be established under Activity 3.1, will serve as a mechanism to effectively involve stakeholders in CBR management process. At this forum, stakeholders including government officials, *community representatives*, business executives, *NGOs*, scientists and conservationists may frequently meet to exchange information and experience as well as discuss on CBR management issues, constraints and challenges. Therefore, it will not be necessary to install and operate a separate stakeholder involvement mechanism other than a PSC which normally convene only once in a year.

A PSC shall be established pursuant to project agreement and with the terms of reference and membership as presented in Section 4.1.3 above.

4.2 Reporting, review, monitoring and evaluation

A project monitoring system will be developed prior to commencing with project operations. Prerequisite to delivering planned outputs on time in accordance with the LFM is proper execution of individual activities pertaining to each of the outputs. Therefore, progress in implementation of individual activities should be closely monitored. The monitoring system to be developed defines pre-project situation, indicators of progress to be employed, measuring techniques, frequency of monitoring and the party responsible for conducting the monitoring. Results of the monitoring should be reviewed, first internally by the project management team and then by the PSC.

The monitoring system will be used by the project management as the guide to conduct activities on monitoring of the progress in implementation of activities. Monitoring activities may be conducted by the Project Coordinator or by any other authorized parties including NGOs, universities and R&D institutions on his/her behalf. Monitoring results will be documented as a progress report to be reviewed and assessed by the PSC wherein main stakeholders are adequately represented.

A number of reports will be produced in accordance with the ITTO Manual on Standard Operating Procedures as follows:

Inception report

- To be submitted after the signing of agreement between ITTO, Executing Agency and GOI.
- Contains such matters as confirmation of the availability of office space and facilities, opening of a separate bank account in internationally recognized bank, proposed key project personnel and any changes that might have occurred since the project formulation stage.
- Yearly Plan of Operation (YPO)
 - To be submitted yearly prior to commencing with operations for endorsement by PSC, as appropriate, and by ITTO.
 - The first year YPO shall be attached to the inception report; the subsequent ones shall be submitted, at the latest ten weeks before the beginning of the planned year.
 - ITTO approves the YPO upon recommendation of the PSC.

Progress report

- Present information on executed activities during the period covered by the report, achieved output(s) as appropriate, and inputs applied.
- The report is to be submitted bi-annually or as requested by ITTO.

Technical report

- Contains technical and scientific data, analysis of data and the project results.
- A technical report may pertain to one single activity, two or more activities or one output depending on the weighted importance of the activities; the report must present procedure and methodologies adopted, the data generated, the results achieved and the conclusions reached.
- The project plans to produce at least three technical reports.

Financial report

- Annual report is to be submitted to ITTO within three months after the end of the current financial year.
- A final report is to be submitted within four months after the completion of planned activities.
- The project's financial statement will be audited by registered independent public accountant to be appointed by the Executing Agency with the prior endorsement of ITTO.

• Completion report

- To be submitted within three months of project completion.
- The report summarizes the activities, inputs and expenditures, achieved outputs and objectives during the entire implementation phase.

- The report highlights the most critical differences between planned and realized project elements using the original project document as reference, and lessons learned from implementation of the project.

4.3 Dissemination and mainstreaming of project learning

4.3.1 Dissemination

Project learning and results will be disseminated through the various means and channels during the implementation phase and after project completion.

- Technical reports
 - Will be published and widely distributed in stages depending on the completion of such reports.
- Brochures/technical documents
 - Are to be published quarterly and distributed nationwide. The brochures present findings, results of individual activities in a popular fashion that they are attractive in appearance and easy to digest even by common people.
- TV broadcasting
 - Delivery of speeches by the Minister of Forestry and other high-rank officials will be arranged through television channels with nation-wide coverage. While such speeches focus on campaigning CBR development, they also will include project learning and results.
- Completion report
 Will be published and distributed nationwide; interested ITTO member countries may also
 obtain the report from the Executing Agency upon request or through ITTO.

4.3.2 Mainstreaming

All information on management operations, land use best practices, lessons learned as well as experiences will be documented in the database system or website to be installed under Activity 3.3. The website will be accessible by decision makers and other stakeholders. In this manner, the information can be widely disseminated and used for policy making, business development and livelihood promotion. Therefore, operating a website is a vital mainstreaming process and it is a tool for developing a center for CBR conservation knowledge. Mainstreaming of lessons and experiences learned can rely not only on the website but also on direct dialogues at different fora and distribution of project technical reports and documents. More importantly, the information documented in the website and other project documents could be utilized by concerned authorities in policy making and by managers of protected areas in developing their operational management plans as well as needed technical guidelines. In addition, the information documented in the website can be shared with the biosphere reserve system situated not only in Indonesia but also in other countries, especially those ones in the tropics in view of exchanging lessons learned and experience between biosphere reserves.

SELECTED REFERENCES

- Iskandar, Johan. 2011. Upaya Pelestarian Ekologi Tatar Sunda. Paper presented to International Conference of Sundanese Culture II, Bandung 19-22 Desember 2011.
- ITTO & GOI, 2010. Developing Collaborative Management of Cibodas Biosphere Reserve in West Java, Indonesia. Project Proposal submitted to ITTO.
- Purwanto, Y., Ade B. Hidayat and Herry Subagiadi, 2013. Aspek Biofisik dan Potensi Kawasan Cagar Biosfer Cibodas. In Manajemen Hulu: Pengelolaan Kawasan Cagar Biosfer Cibodas. Purwanto, Y., Eds. Lembaga Ilmu Pengetahuan Indonesia.
- Man and the Biosphere Programme, 2010. Periodic Review on Cibodas Biosphere Reserve (Year 2010). United Nations Educational, Scientific and Cultural Organization Division of Ecological and Earth Sciences.

ANNEX 1. PROFILES OF THE EXECUTING AGENCY

The Directorate General of Natural Resources and Ecosystem Conservation (KSDAE) and the Gunung Gede Pangrango National Park (GGPNP), the Ministry of Environment and Forestry of the Republic of Indonesia.

The Project will be implemented by the Gunung Gede Pangrango National Park (GGPNP), one of the Agencies under the Directorate General of Natural Resources and Ecosystem Conservation (KSDAE) within the Ministry of Environment and Forestry (MOEF).

The main task of GGPNP is to provide rules and regulations, policy, planning, standard operation and technical assistance for management and development of conservation forest.

Vision of GGPNP

Conserving Indonesia's biodiversity for the well-being of the present and future generations.

Mission:

Conserving biodiversity and reducing human impact through:

- 1. Strengthening the management of conservation areas in Indonesia
- 2. Promoting strong conservation ethics, awareness and actions in Indonesia society.
- 3. Increasing participation of multi-stakeholders efforts to preserve biodiversity and ecological processes on eco-regional scale.
- 4. Formulating policies, law and strengthening law enforcement that support conservation.
- 5. Promoting conservation for the people's well-being through sustainable use of natural resources.

Infrastructure

In terms of the infrastructure, the GGPNP is prepared to carry the project. The office is already connected to a 5 Mbps bandwidth of Internet connection and all of the staff have personal computers on its own.

Budget

Within the last three years, the budget that has been allocated to support conservation activities in the GGPNP is as follows:

Activities	2012 (USD)	2013 (USD)	2014 (USD)
Personnel	546,662.31	565,122,00	595,317.08
Duty Travel	187,270.77	114,281.54	141,147.69
Capital assets	342,525.77	477,376.92	151,068.46
Consumable items	418,771.77	586,108.00	258,956.92
Miscellaneous	95,076.15	142,011.54	126,804.62
Total	1,590,306.77	1,891,823.08	1,273,294.77

Personnel

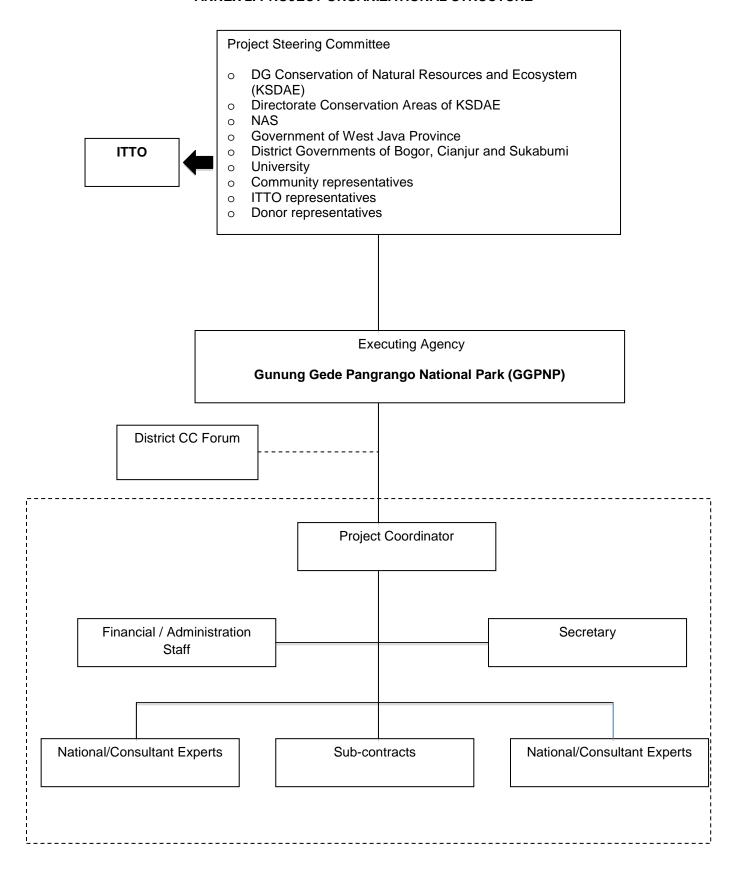
The personnel of GGPNP are described below:

Description	Number
PhD Degree	0
Master Degree	12
University Graduate degree (S1, D4)	37
Middle level technicians and administrative staffs	95
TOTAL	144

Experience in implementing ITTO Project

Project TFL-PD 019/10 Rev. 2 (M) "developing collaborative management of Cibodas Biosphere Reserve in West Java, Indonesia"

ANNEX 2. PROJECT ORGANIZATIONAL STRUCTURE



ANNEX 3. TASKS AND RESPONSIBILITIES OF KEY EXPERTS PROVIDED BY THE EXECUTING AGENCY

No	Name	Professional education	Position in present organization	Experience relevant to the project	Involvement in the project
1.	Ir. Herry Subagiadi, M.Sc	Master degree	Head of GGPNP	International experience in forest conservation	Member of PSC
2.	Sondang R Situmorang, S,Hut, M.Appl.Sc	Master degree	Head of divison for Conservation management and Protection	Involved in international/natio nal projects on forest conservation programme in Indonesia	Counterpart
3.	Aden Mahyar, SH, M.Hum	Master degree	Head of Section For Forest Protection and Mapping	Facilititation of various activities related to conservation programme and community forestry; forest conservation management	Counterpart
4	Heri Suheri, S.Hut, M.Sc	Master degree	Head of Section for Planning and Technical Cooperation	Facilitation of various activities related to stakeholders cooperation, human relation activities	Counterpart
5.	Ade Bagja Hidayat, S.Hut	University Graduate Degree	Staf of Service Utilization	Facilitation iof various activities in conservation management, community development and Environmental Education Program	Counterpart

ANNEX 4. OUTLINES OF THE TERMS OF REFERENCE OF KEY PERSONNEL, CONSULTANTS/EXPERTS AND SUB-CONTRACTS TO BE PAID WITH ITTO FUNDS

Position	Main tasks		
A. Project Key Personnel			
Project Coordinator	To manage project operations on a day-to-day basis		
	To prepare plans of operation, monitoring and evaluation		
	To prepare and submit documents and reports to EA and ITTO in accordance with the project agreement		
	To select consultants and other professionals to assist in project implementation		
	 To organize meetings of PSC and PTC on progress in implementation 		
Project Secretary	To assist PC in managing project operations		
	To manage project office, maintain office facilities		
	To organize meetings and travels		
	To do other tasks as requested by PC		
Project Finance	To assist PC in financial management		
	To undertake book keeping and banking works		
	To assist in the selection of auditor and in conduct of financial auditing		
Project Technicians	To input data on information system		
	To provide data and information for PC and Consultants as requested		
	To assist in preparing various project documents		
B. National Consultants/Ex	perts, Trainers and Sub-contracts		
National Consultant for Activity 1.1	To develop a biodiversity enrichment model for the area currently managed under mono-culture system		
	To develop monitoring plan for progress in application of the model		
	To assess applicability of the model by end of the project		
	 To develop technical manual for application of the model by GGPNP staffs after project completion 		
NGO for Activity 1.2	To hold intensive dialogue with farmers and Park Authority		
(Sub-contract 1)	To develop alternative solutions for the land conflict		
	To discuss on the alternative solutions with farmers and Park Authority		
	To select the best alternative and develop a win-win solution		
	 To prepare agreements on the win-win solution to be signed by conflicting parties 		
	To implement the agreements		
	To rehabilitate degraded lands in collaboration with farmers		
Professional Trainer for Activity 1.3	 To recruit community members to assist forest rangers in monitoring of forest operations 		
	To train the community members on needed technical skills for forest monitoring		
	To develop SOP for monitoring of forest operations		

Activity 1.4 and ecosystems To pilot test application of the system To develop SOP for using the system by GGPNP staffs To develop monitoring plan National Consultant Activity 2.1 Second Sop Industry 2.2 (Sub-contract 2) For identify prospective livelihood projects in 3 (three) districts comprising 2 (two) projects in each district. To assess profitability and sustainability of the livelihood projects favored by local communities and/or business firms on development of identified livelihood projects favored by local communities/firms To assess profitability and sustainability of the livelihood projects favored by local communities/firms To assess profitability and sustainability of the livelihood projects favored by local communities/firms To assist in monitoring of the projects To assist in monitoring of the projects To organize dialogues in 3 districts involving 149 village reps., private firms, NGOs and government officials To report on findings of the dialogues BCF(s) for Activity 2.4 (Sub-contract 3) BCF(s) for Activity 2.4 (Sub-contract 3) To report on implementation of the training National Expert for Activity To organize training materials To report on implementation of the training To report on implementation of the training acc Forum and recommend an effective format of CC Forum To assess advantages of operating a CC Forum at district level To develop an operational plan for the district CC Forum To report on implementation of the workshops on management planning issues To roganize 3 (three) district workshops on management planning issues		
National Consultant for Activity 2.1 Secretary Secretar		is acrosspecial meaning eyerem to bloan end,
National Consultant for Activity 2.1 National Consultant for Activity 2.1 National Consultant for Activity 2.2 (Sub-contract 2) Provided by projects in a consultant for assess on accurring irregularities on land use practices in a develop needed follow up actions to repair the irregularities on land use practices in a develop needed follow up actions to repair the irregularities on development of identified divelihood projects in a (three) district. To identify prospective livelihood projects in a (three) district acomprising 2 (two) projects in each district. To hold intensive consultation with local communities and/or business firms on development of identified livelihood projects favored by local communities/firms To develop project designs in collaboration with local communities/firms owning resources To assess profitability and sustainability of the livelihood projects To assist in monitoring of the projects To organize dialogues in 3 districts involving 149 village reps., private firms, NGOs and government officials To report on findings of the dialogues To organize training materials To identify training participants in collaboration with GGPNP and district government authorities To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government officials To report on implementation of the training National Expert for Activity To assess advantages of operating a CC Forum and recommend an effective format of CC Forum To assess advantages of operating a CC Forum at district level to organize 3 (three) district workshops on management planning issues To organize 3 (three) district workshops on management planning is ormitical propers on implementation of the workshops To report on implementation of the workshops To prepare design of the website and discuss with main users on its co		To pilot test application of the system
National Consultant for Activity 2.1 Section 1		To develop SOP for using the system by GGPNP staffs
Activity 2.1 To conduct field check on the ongoing land use practices To assess on occurring irregularities on land use practices To develop needed follow up actions to repair the irregularities BCF(s) for Activity 2.2 (Sub-contract 2) To identify prospective livelihood projects in 3 (three) districts comprising 2 (two) projects in each district. To hold intensive consultation with local communities and/or business firms on development of identified livelihood projects favored by local communities/firms To develop project designs in collaboration with local communities/firms owning resources To pilot selected livelihood projects To assist in monitoring of the projects To assist in monitoring of the projects To organize dialogues in 3 districts involving 149 village reps., private firms, NGOs and government officials To report on findings of the dialogues BCF(s) for Activity 2.4 (Sub-contract 3) To prepare training materials To identify training participants in collaboration with GGPNP and district government authorities To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government Officials To report on implementation of the training National Expert for Activity To review current functioning of CBR-CC Forum and recommend an effective format of CC Forum To assess advantages of operating a CC Forum at district level To install a CC Forum at each district To develop an operational plan for the district CF orum National Expert for Activity To hold consultations on management planning issues To organize 3 (three) district workshops on management planning To report on implementation of the website and district government authorities on the need for installment of a website To prepare design of the website and test on its operation To validate operation of the website		To develop monitoring plan
BCF(s) for Activity 2.2 (Sub-contract 2) BCF(s) for Activity 2.2 (Sub-contract 2) To identify prospective livelihood projects in 3 (three) districts comprising 2 (two) projects in each district. To hold intensive consultation with local communities and/or business firms on development of identified livelihood projects favored by local communities/firms To assess profitability and sustainability of the livelihood projects favored by local communities/firms owning resources To pilot selected livelihood projects To assist in monitoring of the projects To assist in monitoring of the projects To identify participants of dialogues on nature conservations and sustainable development To organize dialogues in 3 districts involving 149 village reps., private firms, NGOs and government officials To report on findings of the dialogues To identify training participants in collaboration with GGPNP and district government authorities To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government officials To report on implementation of the training National Expert for Activity To report on implementation of the training To assess advantages of operating a CC Forum and recommend an effective format of CC Forum To assess advantages of operating a CC Forum and instrict level To develop an operational plan for the district CC Forum To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for Activity 3.3 To hold consultation with GGPNP and district government authorities on the need for installment of a website To identify and procure needed IT equipment and facilities To identify and procure needed IT equipment and facilities To identify and procure needed IT equipment and solutions on the sebsite and test on its operation To validate operation of the website		·
BCF(s) for Activity 2.2 (Sub-contract 2) **To identify prospective livelihood projects in 3 (three) districts comprising 2 (two) projects in each district. **To hold intensive consultation with local communities and/or business firms on development of identified livelihood projects avored by local communities/firms of development of identified livelihood projects avored by local communities/firms owning resources **To develop project designs in collaboration with local communities/firms owning resources **To pilot selected livelihood projects **To assist in monitoring of the projects **To identify participants of dialogues on nature conservations and sustainable development **To organize dialogues in 3 districts involving 149 village reps., private firms, NGOs and government officials **To report on findings of the dialogues **BCF(s) for Activity 2.4* (Sub-contract 3) **To identify training participants in collaboration with GGPNP and district government authorities **To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government officials **To report on implementation of the training **National Expert for Activity 3.1* **National Expert for Activity 3.2* **National Expert for Activity 3.2* **National Expert for Activity 3.3* **To review current functioning of CBR-CC Forum and recommend an effective format of CC Forum **To assess advantages of operating a CC Forum at district level To install a CC Forum at each district **To hold consultations on management planning issues **To report on implementation of the workshops on management planning To report on implementation of the workshops on management planning **To report on implementation of the workshops on the need for installment of a website **To prepare design of the website and discuss with main users on its completeness **To identify and procure needed IT equipment and facilities **To identify and procure needed IT equipment and facilities **		
(Sub-contract 2) Comprising 2 (two) projects in each district. To hold intensive consultation with local communities and/or business firms on development of identified livelihood projects. To assess profitability and sustainability of the livelihood projects favored by local communities/firms on intensive project designs in collaboration with local communities/firms owning resources. To develop project designs in collaboration with local communities/firms owning resources. To pilot selected livelihood projects. To assist in monitoring of the projects. **To identify participants of dialogues on nature conservations and sustainable development. **To organize dialogues in 3 districts involving 149 village reps., private firms, NGOs and government officials. **To report on findings of the dialogues. **To prepare training materials. To identify training participants in collaboration with GGPNP and district government authorities. **To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government officials. **To report on implementation of the training. National Expert for Activity and procure needed in the district CC Forum and effective format of CC Forum at each district. **To develop an operational plan for the district CC Forum and effective format of CC Forum at each district. **To hold consultations on management planning issues.** To report on implementation of the workshops on management planning. **To report on implementation of the workshops on management planning.** **To hold consultation with GGPNP and district government authorities on the need for installment of a website.** **To identify and procure needed IT equipment and facilities.** **To identify training participants in collaboration with graphs.** **To identify training participants in collaboration with graphs.** **To identify training participants in collaboration with graphs.** **To report on implementation of the workshops.** **To		
business firms on development of identified livelihood projects To assess profitability and sustainability of the livelihood projects favored by local communities/firms To develop project designs in collaboration with local communities/firms owning resources To pilot selected livelihood projects To assist in monitoring of the projects To identify participants of dialogues on nature conservations and sustainable development To organize dialogues in 3 districts involving 149 village reps., private firms, NGOs and government officials To report on findings of the dialogues BCF(s) for Activity 2.4 (Sub-contract 3) **To prepare training materials* To identify training participants in collaboration with GGPNP and district government authorities To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government officials To report on implementation of the training National Expert for Activity 3.1 National Expert for Activity 3.2 National Expert for Activity 3.3 National Consultant for Activity 3.3 National Consultant for Activity 3.4 To hold consultations on management planning issues To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for Activity 3.7 To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To install the website and test on its operation To validate operation of the website	, ,	
favored by local communities/firms To develop project designs in collaboration with local communities/firms owning resources To pilot selected livelihood projects To assist in monitoring of the projects National Experts for Activity To identify participants of dialogues on nature conservations and sustainable development To organize dialogues in 3 districts involving 149 village reps., private firms, NGOs and government officials To report on findings of the dialogues BCF(s) for Activity 2.4 (Sub-contract 3) To prepare training materials To identify training participants in collaboration with GGPNP and district government authorities To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government officials To report on implementation of the training National Expert for Activity To assess advantages of operating a CC Forum and recommend an effective format of CC Forum To assess advantages of operating a CC Forum at district level To install a CC Forum at each district To develop an operational plan for the district CC Forum National Expert for Activity To hold consultations on management planning issues To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for Activity and procure needed IT equipment and facilities To install the website and test on its operation To validate operation of the website		business firms on development of identified livelihood projects
Communities/firms owning resources To pilot selected livelihood projects To assist in monitoring of the projects To assist in monitoring of the projects To assist in monitoring of the projects To assist in monitoring of the projects To dentify participants of dialogues on nature conservations and sustainable development To organize dialogues in 3 districts involving 149 village reps., private firms, NGOs and government officials To report on findings of the dialogues BCF(s) for Activity 2.4 (Sub-contract 3) To prepare training materials To identify training participants in collaboration with GGPNP and district government authorities To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government officials To report on implementation of the training National Expert for Activity 3.1 National Expert for Activity 3.2 To review current functioning of CBR-CC Forum and recommend an effective format of CC Forum To assess advantages of operating a CC Forum at district level To install a CC Forum at each district To develop an operational plan for the district CC Forum National Expert for Activity 3.2 To report on implementation of the workshops on management planning issues To organize 3 (three) district workshops on management planning To report on implementation of the workshops To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To validate operation of the website		favored by local communities/firms
National Experts for Activity 2.4 (Sub-contract 3) National Expert for Activity 2.4 (Sub-contract 3) National Expert for Activity 3.1 National Expert for Activity 3.1 National Expert for Activity 3.2 National Expert for Activity 3.2 National Expert for Activity 3.2 National Consultant for Activity 3.3 National Consultant for Activity 3.1 National Consultant for Activity 3.3 National Consultant for Activity 3.3 National Consultant for Activity 3.3 National Consultant for Activity 3.4 National Consultant for Activity 3.5 National Consultant for Activity 3.6 National Consultant for Activity 3.7 National Consultant for Activity 3.8 National Consultant for Activity 3.9 National Consultant for		communities/firms owning resources
National Experts for Activity 2.3 BCF(s) for Activity 2.4 (Sub-contract 3) BCF(s) for Activity 3.1 BCF(s) for Activity 4 BCF(s) for Activity 5 BCF(s) for Activity 6 BCF(s) for Activity 7 BCF(s) for Activity 7 BCF(s) for Activity 8 BCF(s) for Activity 9 BCF(s)		
sustainable development To organize dialogues in 3 districts involving 149 village reps., private firms, NGOs and government officials To report on findings of the dialogues To prepare training materials To identify training participants in collaboration with GGPNP and district government authorities To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government officials To report on implementation of the training National Expert for Activity To review current functioning of CBR-CC Forum and recommend an effective format of CC Forum To assess advantages of operating a CC Forum at district level To install a CC Forum at each district To develop an operational plan for the district CC Forum National Expert for Activity To hold consultations on management planning issues To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To install the website and test on its operation To validate operation of the website		To assist in monitoring of the projects
private firms, NGOs and government officials To report on findings of the dialogues To prepare training materials To identify training participants in collaboration with GGPNP and district government authorities To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government officials To report on implementation of the training National Expert for Activity To assess advantages of operating a CC Forum and recommend an effective format of CC Forum To assess advantages of operating a CC Forum at district level To install a CC Forum at each district To develop an operational plan for the district CC Forum National Expert for Activity To hold consultations on management planning issues To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for Activity 3.3 To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To install the website and test on its operation To validate operation of the website		
BCF(s) for Activity 2.4 (Sub-contract 3) • To prepare training materials • To identify training participants in collaboration with GGPNP and district government authorities • To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government officials • To report on implementation of the training National Expert for Activity 3.1 National Expert for Activity • To assess advantages of operating a CC Forum at district level • To install a CC Forum at each district • To develop an operational plan for the district CC Forum National Expert for Activity 3.2 National Consultant for Activity 3.3 To hold consultations on management planning issues • To organize 3 (three) district workshops on management planning • To report on implementation of the workshops National Consultant for To hold consultation with GGPNP and district government authorities on the need for installment of a website • To prepare design of the website and discuss with main users on its completeness • To identify and procure needed IT equipment and facilities • To validate operation of the website		
(Sub-contract 3) • To identify training participants in collaboration with GGPNP and district government authorities • To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government officials • To report on implementation of the training National Expert for Activity 3.1 National Expert for Activity 3.2 National Expert for Activity 3.2 National Consultant for Activity 3.3		To report on findings of the dialogues
district government authorities To organize training on livelihood skills involving 300 reps of 149 villages focusing on community leaders and women, private firms, NGOs and government officials To report on implementation of the training National Expert for Activity To assess advantages of operating a CC Forum and recommend an effective format of CC Forum To assess advantages of operating a CC Forum at district level To install a CC Forum at each district To develop an operational plan for the district CC Forum National Expert for Activity To hold consultations on management planning issues To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for Activity 3.3 To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To validate operation of the website	BCF(s) for Activity 2.4	To prepare training materials
villages focusing on community leaders and women, private firms, NGOs and government officials To report on implementation of the training National Expert for Activity 3.1 National Expert for Activity To assess advantages of operating a CC Forum at district level To install a CC Forum at each district To develop an operational plan for the district CC Forum National Expert for Activity To hold consultations on management planning issues To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for Activity 3.3 To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To install the website and test on its operation To validate operation of the website	(Sub-contract 3)	
National Expert for Activity 3.1 • To review current functioning of CBR-CC Forum and recommend an effective format of CC Forum • To assess advantages of operating a CC Forum at district level • To install a CC Forum at each district • To develop an operational plan for the district CC Forum National Expert for Activity 3.2 • To hold consultations on management planning issues • To organize 3 (three) district workshops on management planning • To report on implementation of the workshops National Consultant for Activity 3.3 • To hold consultation with GGPNP and district government authorities on the need for installment of a website • To prepare design of the website and discuss with main users on its completeness • To identify and procure needed IT equipment and facilities • To install the website and test on its operation • To validate operation of the website		villages focusing on community leaders and women, private firms,
an effective format of CC Forum To assess advantages of operating a CC Forum at district level To install a CC Forum at each district To develop an operational plan for the district CC Forum National Expert for Activity To hold consultations on management planning issues To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for Activity 3.3 To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To install the website and test on its operation To validate operation of the website		To report on implementation of the training
To install a CC Forum at each district To develop an operational plan for the district CC Forum National Expert for Activity To hold consultations on management planning issues To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for Activity 3.3 To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To validate operation of the website		
 To develop an operational plan for the district CC Forum National Expert for Activity 3.2 To hold consultations on management planning issues To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for Activity 3.3 To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To install the website and test on its operation To validate operation of the website 		To assess advantages of operating a CC Forum at district level
National Expert for Activity 3.2 To hold consultations on management planning issues To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for Activity 3.3 To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To install the website and test on its operation To validate operation of the website		To install a CC Forum at each district
To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for Activity 3.3 To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To install the website and test on its operation To validate operation of the website		To develop an operational plan for the district CC Forum
To organize 3 (three) district workshops on management planning To report on implementation of the workshops National Consultant for Activity 3.3 To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To install the website and test on its operation To validate operation of the website	National Expert for Activity	To hold consultations on management planning issues
National Consultant Activity 3.3 To hold consultation with GGPNP and district government authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To install the website and test on its operation To validate operation of the website	3.2	To organize 3 (three) district workshops on management planning
Activity 3.3 authorities on the need for installment of a website To prepare design of the website and discuss with main users on its completeness To identify and procure needed IT equipment and facilities To install the website and test on its operation To validate operation of the website		To report on implementation of the workshops
 its completeness To identify and procure needed IT equipment and facilities To install the website and test on its operation To validate operation of the website 		To their contrations that Contration government
 To install the website and test on its operation To validate operation of the website 		
To validate operation of the website		To identify and procure needed IT equipment and facilities
· · · · · · · · · · · · · · · · · · ·		To install the website and test on its operation
To prepare SOP for the system		To validate operation of the website
<u> </u>		To prepare SOP for the system

To train system operators

Notes:

Detailed TORs will be provided in the respective YPOs as appropriate prior to implementation.

ANNEX 5. RECOMMENDATIONS OF THE 49^{TH} EXPERT PANEL AND THE RESPECTIVE MODIFICATIONS MADE

No.	Recommendations	Modifications made
1.	Provide a better map showing the location of the project site and Indonesia. Refine the presentation of the Table of Contents (page iii) by arranging all contents in the left side. Include the Ministry of Environment and Forestry in the list of abbreviations and acronyms;	 Map has been improved and now clearly shows Indonesia, West Java, and CBR; see page iii Presentation of Table of Contents has been revised; see page iv
	abbreviatione and abrenyme,	MOEF is now included in the list of abbreviations; see page v
2.	Refine the main purposes of the project in Section 1.1 (Origin) by describing the intended outputs while eliminating the descriptions of implementing activities;	The main purposes of the project have been revised on pp 1-2
3.	Improve Section 1.2.1 (Conformity with ITTO's objectives and priorities) by elaborating the	Conformity of the project has been elaborated with respect to:
	expected contributions of the project to the specified paragraphs of Article 1 of ITTA, 2006. Elaboration should include the project's relevance	ITTA 2006, Article 1 (c), 1 (n), and 1 (r); see page 2
	to the ITTO/IUCN guidelines for the conservation and sustainable use of biodiversity in tropical timber production forests and the ITTO/CBD Collaborative Initiative for Tropical Forest	ITTO/IUCN Guidelines for the conservation and sustainable use of biodiversity in tropical timber production forests; page 3-4
	Biodiversity;	ITTO-CBD Collaborative Initiative for Tropical Forest Biodiversity; page 3
4.	Refine Section 1.3.1 (Geographic location) by removing descriptions relating to the attention to GGPNP to another place as they are not related to geographic location information;	Section 1.3.1 has been revised by removing the less relevant information; see page 4
5.	Refine Section 1.4 (Expected outcomes at project completion) by describing intended outcomes including envisaged use of the output by beneficiaries, after the completion of the project.	Section 1.4 has been improved by elaborating the expected favorable changes and usage of the Outputs; pp 6-7
6.	Improve the identification of the key problem to be addressed by the project. It should be related to the problems of implementing the integrated management plan of Cibodas Biosphere Reserve which has been developed by TFL-PD 019/10	The key problem has been redefined as "inadequate strategies for conservation and sustainable management of biodiversity and ecosystem in CBR" The key problem is relating closely to
	Rev. 2 (M). Refine the effects of the key problem by focusing the immediate effects of the key problem in the problem tree.	problematic implementation of the ISMP developed under the previous project; pp 1,11
7.	Based on the refined problem analysis, the statements of the development and specific objectives should be improved in a logical way. The development objective should be a higher level aim describing the effects of the achievement of the specific objective. The Panel	 The cause-effect relationship of the key problem has been re-visited; see problem tree and Section 2.1.3 (pp 11-14) Consequent to this redefined key problem and applying these bases have been problem.
	questioned the inclusion of CBR core conservation area alone in the development	problem and analysis, there have been changes in the project elements (objectives, outputs, and activities

	objective and pointed out that it should be related to the conservation and sustainable management		including numbering and titles); pp 15, 18-19
	of CBR as a whole management unit;		10-13
		•	The project now concerns with the entire CBR
8.	Improve the logical framework matrix by refining the indicators. Specify precisely the targeted 300 community leaders and women who will receive training on livelihood development which is one of the indicators for the Specific Objective and Output 2. Remove the third indicator (15HTs and 4 motorcycles made available for forest rangers in Year 2-3) for Output 1;	•	The LFM has been improved consistent with the newly defined project interventions/
		•	The 300 trainees are reps of 139 villages focusing on leaders and women, private firms, NGOs and government officials
		•	The HTs and motorcycles have been removed
		•	See pp 16-17
9.	In the budget table (3.4.1. Master budget schedule), check the budget component number in accordance with the standard presentation of ITTO Manual for Project Formulation;	•	The numbering of budget components and items has been done in adherence with the ITTO Manual for Project Formulation, especially the examples in Table 7 on page 47 of the manual.
10.	Justify the engagement of the three sub-contracts for the implementation of Activity 1.2, Activity 2.2, and Activity 2.4 and improve their terms of reference in Annex 4. Provide more information	•	Implementation of Activities 1.2, 2.2, and 2.4 are best under sub-contract for reasons elaborated in Section 3.2; p. 20-21
	the proposed establishment of a website;	•	TORs of these activities have been improved in Annex 4.
11.	Further improve Section 3.5.1 (Assumptions and risk) by fully describing the specific risks beyond the control of project management together with the improvement of the assumptions of the logical	•	Section 3.5.1 has been improved by referring to the key assumptions defined in the LFM and potential risks if the assumptions do not hold; p. 34
	framework matrix. Review the inclusion of expected risks relating to the problem of coordination between relevant Ministries and application of a mechanism for land acquisition in the core area which would be a national issue. The risk mitigation measures should be further detailed to ensure the achievement of objectives and outputs;	•	The issues on land use conflicts are clarified on p. 34
12.	Specify institutional arrangements to ensure the further development of the activities initiated by the project in Section 3.5.2 (Sustainability);	•	Section 3.5.2 has been elaborated on page 34-35
13.	Improve Section 4.1.4 (Stakeholder involvement mechanism) by specifying collaborating partners and mechanism for stakeholder participation;	•	Section 4.1.4 has been improved on pages 36-37
14.	Improve Section 4.3.2 (Mainstreaming) by elaborating activities to synthesize the lessons and experiences learned from the implementation of the project and widely disseminate such lessons as a Cibodas Biosphere Reserve	•	Section 4.3.2 has been elaborated on page 38

	biodiversity conservation knowledge management strategy;		
15.	Provide updated information on the budget of the executing agency in Annex 1;	•	Annex 1, budget of the EA has been updated
16.	Further elaborate TORs for each of the national consultants/experts in Annex 4;	•	At this stage, TORs of the National Consultants have been, to some extent, improved noting that the TORs are to be fully detailed when applying for NOLs to the employment of the respective consultants.

Annex 6. Recommendations of the 50th expert panel and the respective modifications made

No.	Recommendations of the 50th expert pan	Modifications made
1.	Further improve the problem analysis by refining the key problem to fully reflect the three causes specified in the problem tree. The Panel observed that there is no clear linkage between the current key problem and the specific objective, the outputs and activities as the current key problem statement is merely related to "Inadequate strategies". In this connection, the Panel pointed out that the key problem can be refined with "Inadequate conservation and sustainable management of biodiversity and ecosystems in CBR" in the context of implementing the integrated management plan of Cibodas Biosphere Reserve;	The problem analysis has been improved by redefining the key problem as "inadequate conservation and sustainable management of biodiversity and ecosystems in CBR". In accordance with the wording proposed by the Expert Panel. (see pages 11 and 14)
2.	Based on the refined key problem, the specific objective and logical framework matrix should be amended accordingly;	The logical framework matrix and other relevant parts of the proposal have been amended by defining the specific objective as "to improve conservation and sustainable management of biodiversity and ecosystems in CBR through implementation of the Integrated Strategic Management Plan". (see pages: i, ii, 15, 16 and 18)
3.	Review the budget provisions allocated for "International Workshop on CBR" and "International Event" in the ITTO Budget (Items 68 and 69), reconsider its relevance and adjust accordingly, if needed;	Today, the World Biosphere Reserve System consists of 377 units of reserve situated in 120 countries and CBR is part of the system. Inclusion of "International Workshop on CBR" and "International Event" is among the effects to facilitate effective exchanging of information and learning of experience with the other reserves. Adjustment to budget provision is not necessary at this stage. The Executing Agency will be seeking for additional funding from other donor(s) suring the course of project implementation in order to alow for organizing an international workshop of an appropriate size. (see page 21)
4.	Further improve Section 4.1.4 (Stakeholder involvement mechanisms) to ensure the full and effective participation of key stakeholders during the implementation of the project. Engagement of a representative(s) from the concerned local communities in the PSC meeting is encouraged. More involvement of local stakeholders in the CC Forum to be established at the district level is essential. These include local academic society and local community organizations for enhancing the participation of women in CBR ecosystems planning and management; so the amendments made are in italics and underlined in	Section 4.1.4 has been improved: Reps of local communities are engaged in the PSC meeting; main local stakeholders are involved in the District CC Fora including local universities and NGOs; and women participation is enhanced through involvement in execution of particular activities, e.g., Activities 2.2, 2,3 and 2.4. (see pages: 20, 21, and 36 (Sections 4.1.3 and 4.1.4)

Notes: the amendments made are in italics and underlined in order to distinguish them from the amendments of the 49th EP Meeting.