### MEMORANDUM OF AGREEMENT

### CONVERGENCE PROJECT OF LGU BANGUI, DENR AND MITSUBISHI MOTORS PHILIPPINES CORPORATION

KNOW ALL MEN BY THESE PRESENTS:

This Memorandum of Agreement made and entered into by and between:

The DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES (DENR) Provincial Environment and Natural Resource Office (PENRO) of Ilocos Norte, with office address at Giron St., Brgy 7B, Laoag City, 2900 Ilocos Norte, herein represented by PENR Officer, VICTOR C. DABALOS, and herein referred to as DENR, as the "FIRST PARTY":

and

The MUNICIPALITY OF BANGUI, ILOCOS NORTE, with principal office address at Bangui, Ilocos Norte, duly represented herein by its Municipal Mayor FIDEL A. CIMATU, JR., herein referred to as the "SECOND PARTY"

### -WITNESSETH-

WHEREAS, pursuant to Section 16, Article II of the 1987 Philippine Constitution, it is the policy of the State to protect and advance the right of the people to a balanced and healthful ecology in accord with the rhythm and harmony of nature;

WHEREAS, Article XIII of the 1987 Constitution provides for the promotion of social justice and human rights including the commitment to create economic opportunities based on freedom of initiative and self-reliance;

WHEREAS, it is also the policy of the State to ensure sustainable use, development, management, protection and conservation of the country's environment and natural resources and cultural heritage for the enjoyment of the present and future generations;

WHEREAS, Sec.4 of Executive Order No. 192, series of 1987 designates DENR as the primary government agency responsible for the sustainable management of the country's environment and naturals resources;

WHEREAS, Sec. 17(b) (2) (ii), Chapter II, Title I, Book I of Republic Act No. 7160 otherwise known as the Local Government Code of 1991 provides that among the basic services and facilities to be rendered by LGUs is the implementation of community-based forestry projects which include integrated social forestry programs and similar projects; management and control of communal forests with an area not exceeding fifty (50) square kilometers; establishment of tree parks, greenbelts and similar forest development projects, pursuant to national policies and subject to supervision, control and review of the DENR;

WHEREAS, LGU BANGUI recognizes the importance of sharing the responsibility and accountability for the sustainable development and management of forestlands in the municipality of Bangui, Ilocos Norte and realizes the urgency of the protection, rehabilitation and comprehensive development of the Sentinella Hill and Sitio Paddagan, Brgy.Payae located within its territorial jurisdiction to improve forest cover and provide sustainable eco-cultural tourism designed to improve the quality of life of the host community, provide a high quality of experience for the visitors, and maintain the quality of the environment for the benefit of the present and future generations;

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WHEREAS, the parties recognize the importance of collaboration and partnership in order to achieve the objectives of the Enhanced National Greening Program (ENGP) and to develop and promote sustainable eco-cultural tourism for the benefit of the present and future generations, and have agreed to work together to implement this partnership agreement;

NOW THEREFORE, for and in consideration of the foregoing premises, the PARTIES have hereto agreed on the following:

### I. GENERAL PROVISIONS

### A. Scope and Limitation

As a component for the implementation of the Convergence Project of LGU Bangui, DENR & Mitsubishi Motors Philippines Corporation, this project shall cover the 2.2426 hectares at Sentinella Hills and 30 hectares at Brgy. Payac located in the Municipality of Bangui, Province of Ilocos Norte.

The development shall be in accordance with the approved Work and Financial Plan (WFP) for the Financial Year 2018 and the approved Eco-Cultural Development and Management Plan. A copy of the WFP is hereto attached as Annex "A".

The protection and maintenance of the development activities for 2019- 2022 will be proposed subject to the availability of funds.

### B. Project Management

The PARTIES shall create a body to be given oversight of the project. Its composition and the respective duties and functions of its members shall be determined after the execution of this MOA.

### C. Project Duration

The project shall be implemented for one (1) year, CY 2018.

### D. Funds and Mode of Payment Releases

In accordance with the activities to be implemented in this MOA, the FIRST PARTY shall allocate the amount intended for the activities of the project to the SECOND PARTY which shall be based on the approved WFP.

### E. Eco-cultural Concepts and Principles

Eco-cultural management and development shall be in accordance with the following internationally accepted principles:

- 1. Promotion of learning experience and conservation awareness;
- Ownership by the local communities providing them business opportunities to sustain their well-being;
- Gender responsiveness and adherence to inclusive growth that considers women, children, indigenous peoples and informal sector activities;
- 4. Responsible action on the part of tourists and the tourism industry; and
- Delivery to appropriate number of participants and businesses that observe and follow ecocultural tourism and conservation concepts, ensuring appropriate development and visitor control.

### F. Implementation

NO

The implementation of the project shall be in accordance with the timelines, implementation arrangements and the proposed budget provided in the WFP and the Eco-Cultural Development and Management Plan.

### G. Monitoring and Evaluation

The PARTIES shall conduct a two-tiered mechanism for the monitoring and evaluation of project implementation. The first tier involves the monitoring of the progress of its implementation and the second-tier involves the monitoring of its impact to determine the effects of the eco-cultural tourism development and environmental protection in the area and its community benefits.

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### II. OBLIGATIONS OF THE PARTIES

### A. The "FIRST PARTY" shall:

- With the concerned LGU, conduct activities, including but not limited to Characterization and Vulnerability Assessment, Site Planning/Assessment of the potential plantation sites within the Sentinela Hill, Forest Protection and Maintenance;
- Provide technical assistance to the SECOND PARTY prior and during the implementation of the project;
- Require the SECOND PARTY to submit a detailed program of work in relation to the Eco-Cultural Enhancement of Sentinella Hill and Agroforestry Model Site Development consistent with the approved WFP, for review and approval of the FIRST PARTY;
- Provide technical assistance to the SECOND PARTY in the implementation of forest protection activities, which includes but not limited to trainings on the LAWIN System, fire and pest management and deputations;
- Provide technical support and assistance to the SECOND PARTY in the preparation of the Eco-Cultural Development and Management Plan;
- Conduct regular monitoring and evaluation of the project to ascertain its progress and accomplishments in accordance with the WFP, program of work and specifications of different activities; and

### B. The SECOND PARTY shall:

- 1. Acknowledge the receipt of the fund allocation from the FIRST PARTY;
- Prior to the commencement of the project, submit to the FIRST PARTY for review and approval, the project proposal, program of work or calendar of activities including an Eco-Cultural Development and Management Plan in support to the approved WFP;
- Create a Municipal Environment and Natural Resources Office (MENRO) to enhance coordination with the FIRST PARTY relating to the project and other environmental concerns;
- Provide counterpart fund, if the expense for the project exceeds the funds allocated by the FIRST PARTY;
- Implement the activities in accordance with the attached/approved WFP;
- Submit periodic accomplishment reports to the FIRST PARTY.

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- Administer, manage, disburse and utilize the funds allocated for its avowed purpose and in accordance with existing auditing and accounting rules and regulations;
- Submit to the FIRST PARTY a duly audited liquidation report and credit notice duly verified by the SECOND PARTY's resident auditor;
- Submit to the FIRST PARTY a terminal report within sixty (60) days after the completion of the project

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### SETTLEMENT OF DISPUTES III.

Any dispute among the parties arising out of the interpretation or execution of this MOA shall be settled by agreement of the PARTIES.

### IV. **AMENDMENTS**

This MOA shall not be revised, amended or modified in any respect except by the mutual consent and in writing of the PARTIES hereto.

### **EFFECTIVITY**

This MOA shall take effect up of one (1) year or until completion of t	on signing of both PARTIES and shall remain in force for a period he project, whichever comes first.
IN WITNESS WHEREOF, t	he parties have set their hands this day of,
Signed for and on behalf of:	Signed for and on behalf of:
Department of Environment and Natural Resources	Municipality of Bangui, Ilocos Norte
By C / /	By:
VICTOR C. DABALOS PENRO Officer, Ilocos Norte	FIDEL A. CIMATU, JR  Municipal Mayor
ATTY. JONYS R. LEON USEC for Policy, Planning and Interna DENR	
Republic of the Philippines Province of Ilocos Norte Laoag City	) ) S.S )
	ACKNOWLEDGEMENT
	Public for and in the City of Laoag, Ilocos Norte, this personally appeared the
following persons:	
VICTOR C. DABALOS ID No Issued on	FIDEL A. CIMATU, JR. ID No Issued on
Issued by	Issued by

Known to me and to me known to be the same persons who executed the foregoing Memorandum of Agreement (MOA), consisting of five (5) pages including this acknowledgement is written and they acknowledge to me that the same is their free and voluntary act and deed.

WITNESS MY HAND AND SEAL, on the date and at the place first written above.

Doc. No.	
Page No.	
Book	
Series of	2018

# BED FORM No. 1

# Department of Environment and Natural Resources FY 2018 PHYSICAL AND FINANCIAL PLAN (In Thopusand Pesos)

Project : CONVERGENCE PROJECT OF LGU BANGUI, DENR, AND MITSUBISHI CORPORATION

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VICTOR C. DABALOS
PENRO Bocos Norte

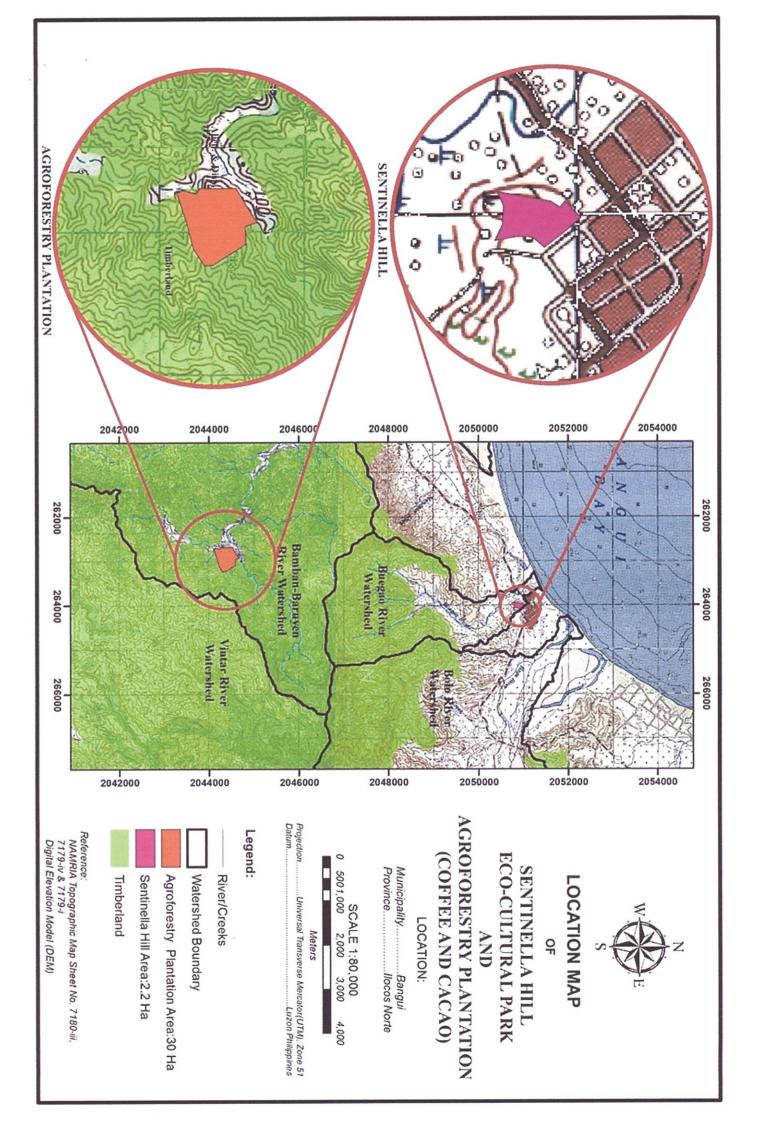
ROSALIA C. SORIANO Chief, Finance Division THE

Reviewed by:

Recommending Approval:

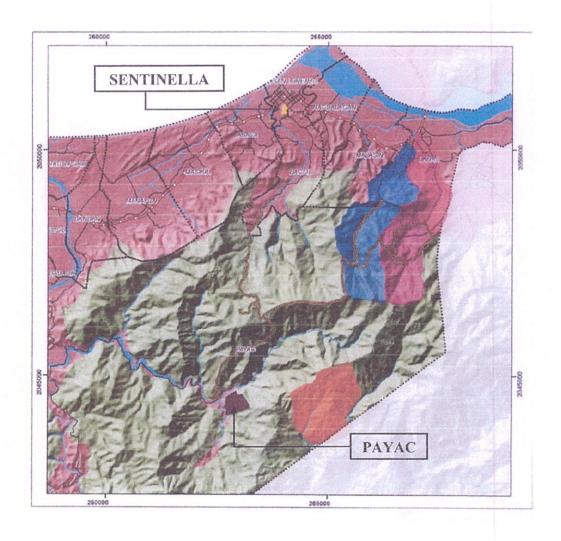
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III. PROJECT MANAGEMENT AND SUPERVISION
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Q2 Q3 Q4 BUDGET



## CONVERGENCE PROJECT OF LGU BANGUI, DENR, AND MITSUBISHI CORPORATION

Brgys. Payac and Poblacion (San Lorenzo) Bangui, Ilocos Norte



LOT 554 Cad 734-D, Bangui Cadastre 2.2426 hectares

Payac, Bangui, Ilocos Norte Timberzone of 30 hectares

### I. BACKGROUND

The municipality of Bangui, Ilocos Norte located in the northeastern part of the province of Ilocos Norte is famous for its Windmills. At the heart of the Poblacion lies the Sentinella Hill which is known for its historical significance during the early years when the locals used this as their watch tower, to keep watch of the enemies invading the town. Recently, the hill has been used by the residents of Bangui as a park and the LGU constructed an ecostairs with 125 steps to reach the top of the hill.

The hill is located within the Alienable and Disposable land consisting of about 2.2 hectares. It is endowed with rich flora and fauna which are native (endemic or indigenous) in the province of Ilocos Norte. These species are worth developing to serve as demonstration area cum learning laboratory to promote the biodiversity of the area. As such, the LGU will be declaring this area as Municipal Ecological Park.

Given its proximity to the province of Cagayan, while it has type 1 climatic condition, its micro climate is different from the other municipalities of Ilocos Norte. The rainy months will start from June up to February. Hence, suitable for agroforestry development particularly using high value crop species, coffee and cacao.

This proposed convergence project is intended to support the development of Sintenala Hill as an eco-natural park and support agroforestry development of 30 hectares that will be located in SitioPaddagan, Brgy. Payac, Bangui, Ilocos Norte.

### II. OBJECTIVES

The proposed project has the following objectives:

- 1. To inventory the native (endemic and indigenous) species found within Sentinella Hill;
- 2. To promote the development of the native species through Assisted Natural Regeneration or enrichment planting
- 3. To develop the biodiversity of Sentinella Hill and promote the area as an Eco-cultural tourism destination;
- To develop a 30 hectare agroforestry plantation of coffee and cacao in Brgy. Payac, Bangui, Ilocos Norte;
- To establish convergence among partners; LGU Bangui, DENR, Mitsubishi Corporation, and other partners in eco-cultural tourism development and agroforestry development; and
- To provide livelihood opportunities to the community residents through eco-cultural and agroforestry development.

### III. COMPONENTS

### A. Eco-Cultural Development

### 1. Bio-diversity Assessment

The project will undertake inventory of flora and fauna found within Sentinella Hill. The native species will be enriched through Assisted Natural Regeneration and/or Enrichment planting but the exotic ones will be gradually eliminated

### 2. Assisted Natural Regeneration

Native species will be identified and regenerants will be assisted naturally to develop. In cases, when the plant population is not sufficient, enrichment planting will be done

### 3. Conduct of Hydrogeological Survey

In collaboration with the Mines and GeoSciences Bureau of Region 1, the survey is intended to identify the aquifers that will provide the source/s of water to the community residents of Bangui and tourists visiting the place

### 4. Repair and Maintenance of Small Water Impounding Structure

The present reservoir will be repaired and maintained to provide continuous water supply to the community residents

### 5. Eco-cultural Tourism development

This will involve the construction of look-out tower and refurbishment of the ecotrail. The look-out tower will facilitate the forest protection activities of the LGU and DENR for the adjacent NGP plantation of Bangui. This will also provide tourists the opportunity to observe the panoramic view of the mountain ridges and the municipality especially the windmills.

### B. Agroforestry Development

### 1. Survey, Mapping, and Planning

A portion of the timberland covering 34 has in Brgy. Payac, Bangui, Ilocos Norte has been initially surveyed and mapped. The team has identified 30 hectares available and suitable for coffee and cacao development. This area will be validated by DENR team with support from the Department of Agriculture and the LGU of Bangui, Ilocos Norte;

### 2. Agroforestry Plantation establishment

a. Seedling production of 15,000 High quality seedlings of coffee and cacao will be produced/ procured. To provide at least 15 percent (15%) mortality, 563 seedlings of coffee and 563 seedlings of cacao will be produced/procured by the LGU.

### b. Plantation establishment

### c. Maintenance and Protection

- Establishment of look-out tower this shall also serve an information center and ranger station. It shall be constructed at the highest elevation of the hill. This station will serve as monitoring station for the forest rangers and forest protection officers and as information center for local and national tourists/visitors
- 2) Slope stabilization this shall address uncontrolled soil erosion

### C. Project Management and Supervision

### Capability-Building

Establishment of institutional framework for the promotion of agroforestry and ecocultural tourism activities in the community shall be carried out. This could be done through combined efforts from the Department of Tourism, Department of Agriculture and the Local Government Unit of Bangui. In this way, it increases or promotes agricultural goods, cultural legacy and services for tourism.

Selected staff of the local government units, community residents and DENR will be trained on plantation techniques of coffee and cacao to ensure higher survival and growth of seedlings. Development and execution of a training programme for key stakeholders focusing on the technical and managerial aspects of agroforestry and eco-cultural-tourism with good standards will be conducted.

### 1. THE DEPARTMENT OF ENVIRONMENT AND NATURAL OFFICE

The DENR shall be the lead agency in all stages of the proposed project. The DENR shall decide of what reforestation scheme is to be applied in the area, what endemic tree species are suitable to be planted, the density, the forest protection strategy to be applied and other related activities.

The DENR shall allocate funds through a private entity convergence effort for the propose project and be responsible in the monitoring and evaluation of the status, extent and accomplishment of the project. DENR shall provide technical assistance on nursery operation, plantation establishment, maintenance and protection of the area.

### 2. THE MUNICIPAL GOVERNMENT OF BANGUI

The LGU Bangui shall coordinate closely with DENR in facilitating and organizing the project. The LGU shall assist in the provision of technical support which includes stages of planning, organizing, trainings, introductory implementation and management, and assistance in marketing.

### The Municipal Engineering Office.

The Engineering Office of the LGU shall lead in determining feasible location for the construction of Look-out tower and designing erosion control measures/structures.

### o The Municipal Agriculture Office

The Agriculture Office headed by the Municipal Agriculturist shall assist in assessing the area especially the patches of open access for introduction of High Value or endemic prevalent species. The MAO shall determine as to the existing vegetation/species indicator, soil type, slope and altitude of the area if the area is suitable for agro-forestry establishment.

The MAO will conduct trainings and shall assist the community in all technical activities and programs applicable within their areas of concern. Transfer of agricultural technology programs shall be their responsibility to enhance

agricultural crops suitable in the area. It could be an intercropping or hedgerows, whatever applicable.

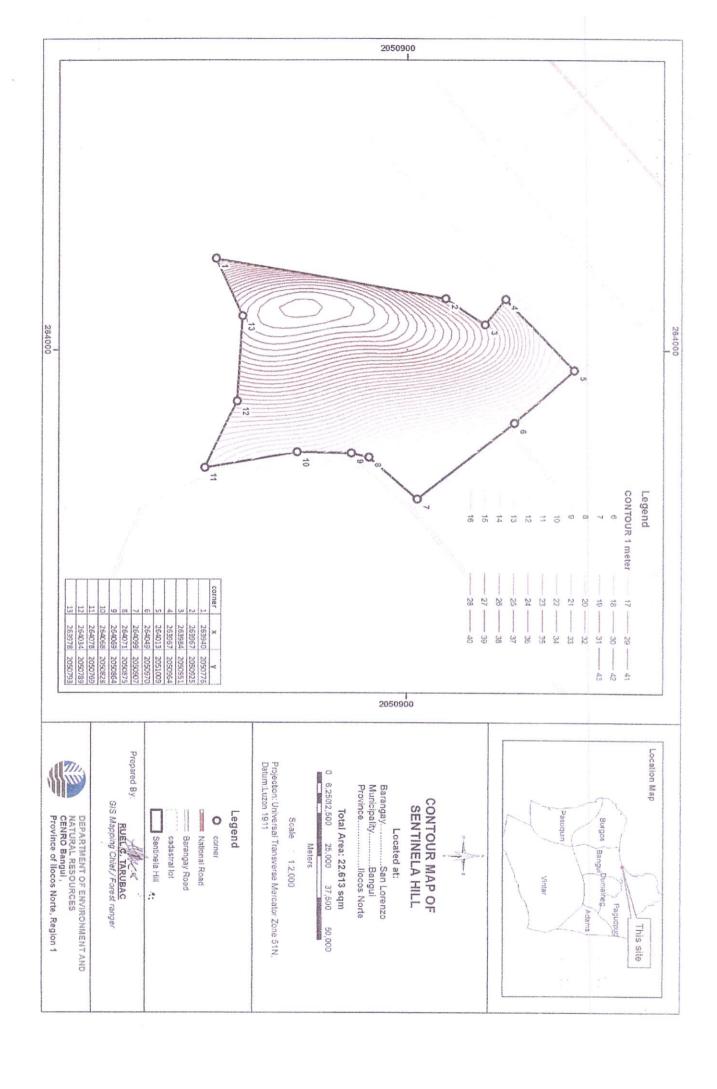
### D. Financial Requirements

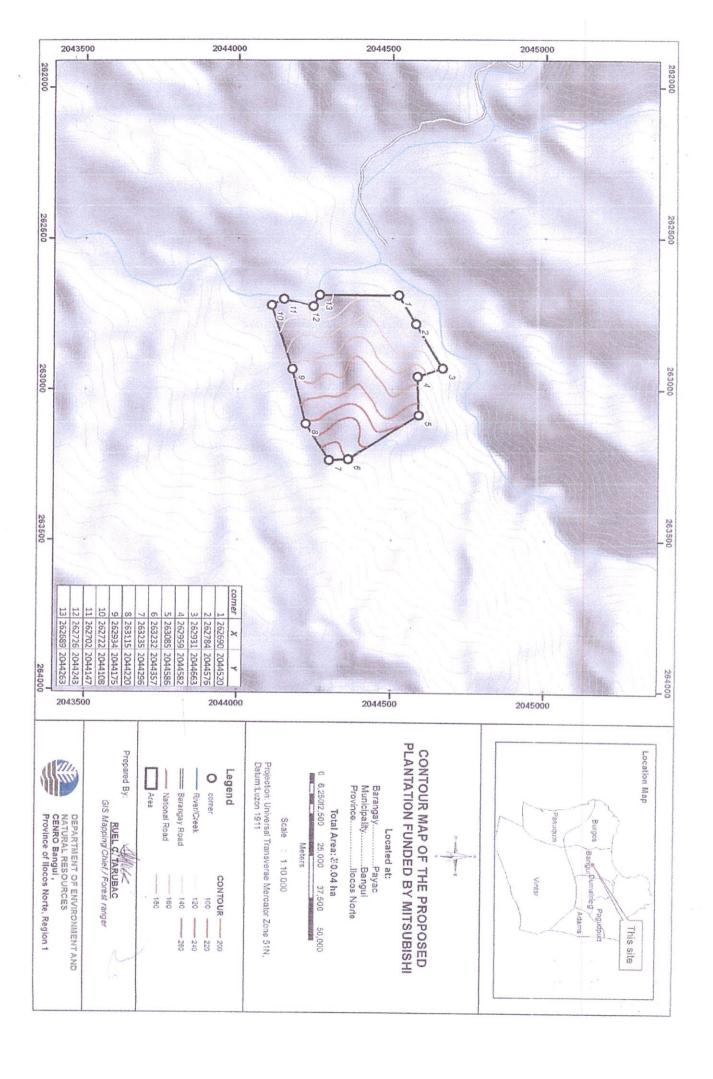
The DENR shall allocate funds for the project through convergence effort of different concerned agencies. The capital will be based on the projected activities to be implemented, the infrastructure planned to be constructed and manpower to be hired. Initial computation for the project is estimated as Php 2,680.500.00 for the first year. Protection and maintenance activities will be proposed for the succeeding years, subject to the availability of finds.

The DENR and LGU Bangui will enter into a Memorandum of Agreement for the implementation of the project. Payment scheme and mode of payment shall be scheduled based on the accomplishment of the LGU and as per approved work and financial plan.

The flow of payment will be:

- Request for Inspection from the LGU attached with Statement of Work Accomplishment duly signed by the assigned DENR Site Coordinator, who conducted pre-validation of the accomplished activity, and the representative of the LGU;
- Composite Team from the DENR-PENRO and CENRO will conduct inspection and validation of the reported accomplishment and recommends the payment of the accomplished activity as validated to the PENR Officer;
- 3. The DENR pays the corresponding payment to the accomplished activity.





BED FORM No. 1

# Department of Environment and Natural Resources FY 2018 PHYSICAL AND FINANCIAL PLAN (In Thopusand Pesos)

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VICTOR C. DABALOS PENRO flocos Norte

S CLAR A. CABANSON
Chef. Planning Management Poisson ROSALIA C. SORIANO Chief, Finance Division

HI, PROJECT MANAGEMENT AND SUPERVISION
Monitoring and Evaluation

50,000.00

P/A/P Code

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Performance Indicator

Province/Municipality O1 O2 O3 O4 TARGET CLASS O1

PY 2018 Financial Performance
Q2 Q3 Q4 BUDGET

200

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Reviewed by:

RETURNAL JUAN
Regional Director

Recommending Approval:

ATT ARCESTO D. ADOBO

Andersecretary

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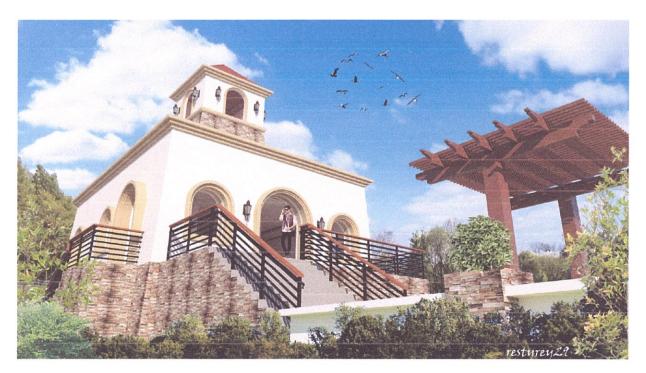
Indersecretary

# STATUS OF IMPLEMENTATION: CONVERGENCE PROJECT OF THE LGU BANGUI, DENR AND MMPC

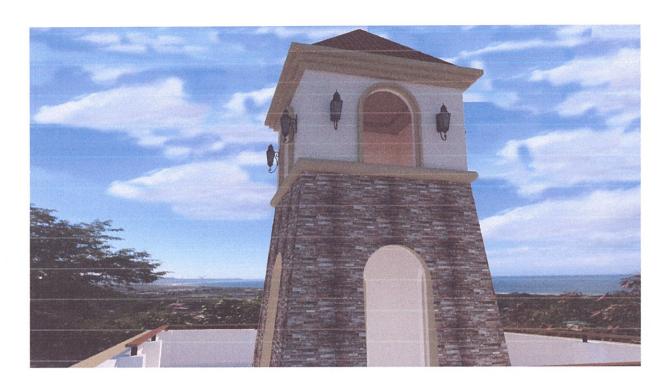
PPA	TARGET	ACCOM	REMARKS	BUDGET
A. Sentinella Hill				P1,822,000
1. Seedling/Sapling Production/ Procurement (no)	455	COMPLETED		P402,000
2. Construction of Nursery House/ Seedling Depot	1	ON-GOING		P250,000
3. Plantation Establishment (ha)	2	COMPLETED		P150,000
4. Maintenance and Protection	_	ON-GOING		P920,000
- Construction of Look-out Tower (no)	<u> </u>	ONGOING		P400,000
- Slope stabilization and improvement of access trail	-	COMPLETED		P170,000
<ul> <li>Procurement of Organic Fertilizer and</li> <li>10% of Planting Stock for Replanting (1 lot)</li> </ul>				
5. Biodiversity Assessment - Inventory of Flora and Fauna - Topo Map (1:100)	2	COMPLETED COMPLETED		P50,000
6. Hydrogeological Survey and Hydroresistivity	2	COMPLETED		P50,000
B. Brgy. Payac				P658,500
Agroforestry Development     (30 hectares Coffee/Cacao Plantation)     - SMP (ha)	30 15,000 30	COMPLETED COMPLETED 2		P658,500 P13,500 P375,000
<ul> <li>Seedling Production (no)</li> <li>Plantation Establishment (ha)</li> <li>Maintenance and Protection (ha)</li> </ul>	30			P195,000 P75,000
C. PMS / Capability Building				P200,000
TOTAL				P2,680,500

### **Expected Output in the Sentinella**

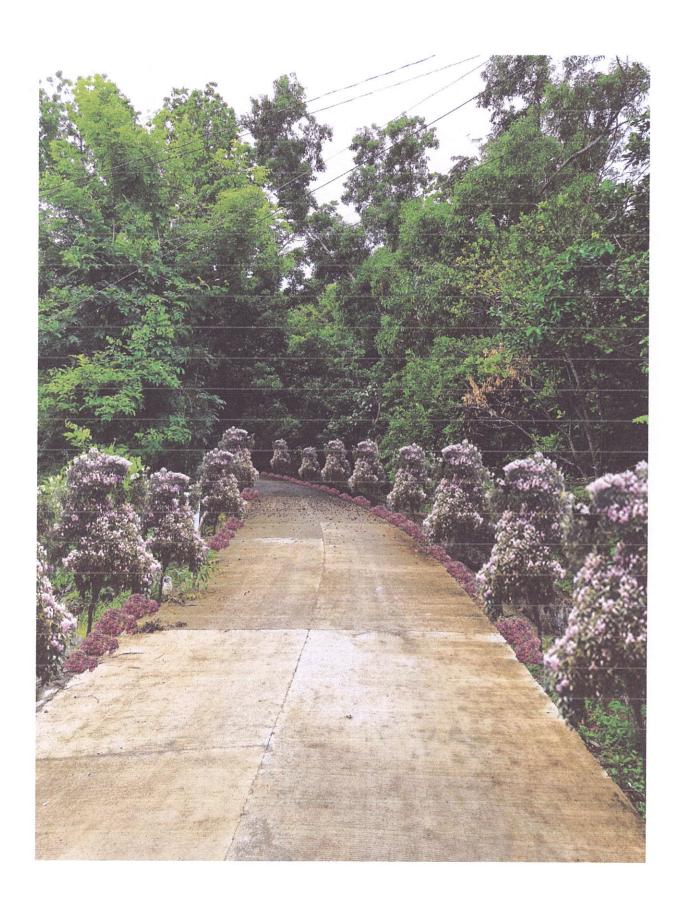


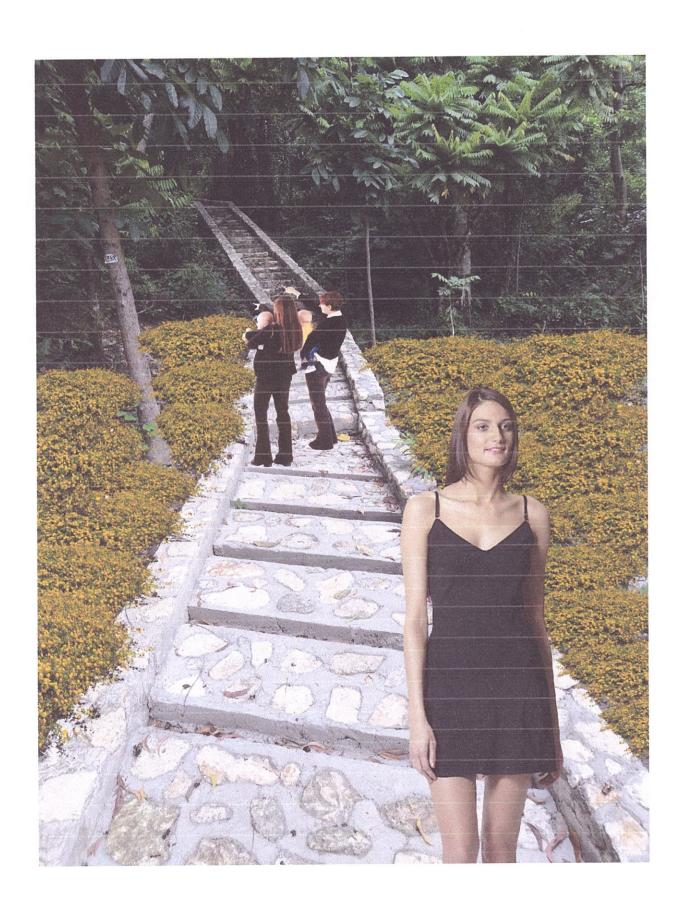


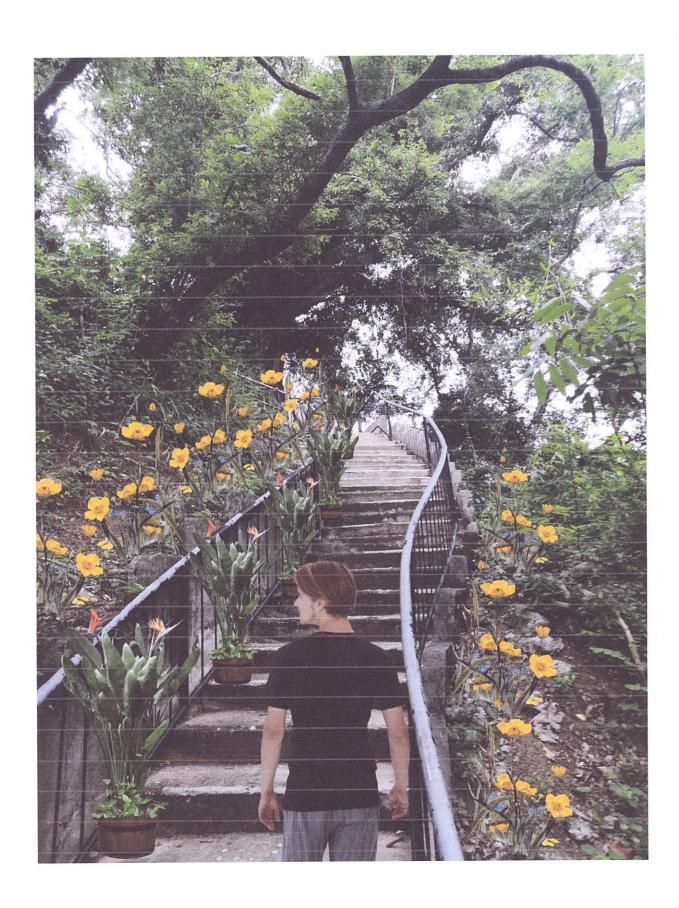












Department of Environment and Natural Resources
FY 2018 PHYSICAL AND FINANCIAL PLAN
(In Thopusand Pesos)

BED FORM No. 1

Project : CONVERGENCE PROJECT OF LGU BANGUI, DENR, AND MITSUBISHI CORPORATION

	Seedling  Plantatic  Site Prey brushing hole digg planting staking  Mainten													The state of the s		- Conduc	SMP	Location : Brg	I. AGROFORI		6 Hydroge	2. Topo ?	i. Invent	5 Biodiver	of Pu	4.3 Procu	4.2 Slape	4.1 Cons	4 Mainten	3.2 Assit		3 Plantati		Seedling	Location : S	I. ECO-CULTI					Project: CONY
Ring weeding with cultivation;	1:		Muintenance and Protection				in the second		Site Preparation and Planting	Plantation Establishment				Seedling Production		<ul> <li>Conduct of Survey, Manping, and Planning</li> </ul>		Location: Brgy. Payac, Bangui, Ilocos Norte	II, AGROFORESTRY SITE DEVELOPMENT		ological Survey	2. Topo Map (1:100)	Inventory of Flora and Fauna	Biodiversity Assessment	of Planting Stock for Replanting	rement of Organi	stabilization and	4.1 Construction of Look-out Tower	Maintenance and Protection	3.2 Assited Natural Regeneration (ANR)	3.1 Site Preparation and Planting	Plantation Establishment	ction of Nursery	Sapling Produc	entinella Hill, Sar	I. ECO-CULTURAL DEVELOPMENT			NAMES OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.	P/A/P Code	EKUENCE PKU
F 11	ion,		ion						ging			Cacao	Coffie		5	sing and Planning		Hocos Norte	YELOPMENT		Hydrogeological Survey and Hydroresistivity	· ·	auna		eplanting	4.3 Procurement of Organic Fertilizer and 10%	4.2 Slope stabilization and improvement of access trail	out Tower	tion	eration (ANR)	anting	1	Construction of Nursery House/Seedling Depot	Seedling/Sapling Production/Procurement	Location: Sentinella Hill, San Lorenzo, Bangui, Ilocos Norte	PMENT		TOTAL		Code	roject: CONVERGENCE PROJECT OF LGO BANGGL DENK, AND MITSUBISH CORPORATION
		2,500.00								6,500.00			25.00			450.00					Php50,000,00			Php50,000.00		1 .00	Php350,000.00	Php500,000.00				75000/ha	Php250,000.00	Php402,000.00					MANAGEMENT AND CONTRACTOR OF THE PARTY OF	uc	K, AND MILSURIS
			Area maintained (ha)							Area established (ha)		scedlings produced (no.)	seedlings produced (no.)		The same of the same same same same same same same sam	Area surveyed and assessed (ha)								biodiversity assessed (ba)	replanting procured	Organic fertilizer and planting stock for	improved	Look-out tower constructed (no.)				Plantation established	Nursery house/Seedling depot constructed	Seedlings/Saplings Produced/Procured (no.)						Performance Indicator	HI CORPORATION
						***************************************												Bangui	Ilocos Norte																				And the second s	Province/Municpality	Ever vertices, the distribution of the late of the feature of the late of the
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-			+	+	+	-	+	+	+	+	C781	107.3	107 6	0 523	13.5		+		$\dagger$	+	$\vdash$	-	5	;	+	+	-	+	+	+	+	+			+	-	405.5	+	2	F	
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PENRO llocos Norte III. PROJECT MANAGEMENT AND SUPERVISION
Monitoring and Evaluation PIAIP Code Reviewed by: \$9,000.00 S Recommending Approval: Performance Indicator Province Municipality Q1 Q2 
 FY 2018 Physical Performance
 EXP.

 Q2
 Q3
 Q4
 TARGET CLASS
 Q1
 MOE

FY 2018 Financial Performance
02 Q3 Q4 BUDGET

Chief, Planning Management thisisin ROSALIA C. SORIANO Chief, Finance Division KINNEW

Regional Director

ATTURNESTO D. ADOBO

**Undersceretary** 

Adminstrator, Finance, Human Resources, Constant Affair and App-Company Inimustoo Systems, I egal.