



REPORT

MONITORING, EVALUATION ON THE IMPLEMENTATION OF AAPs 2019 IN LANG BIANG WORLD BIOSPHERE RESERVE

Under “Sustainable Natural Resource Management Project”

December 2019

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ACRONYM

AAP	Annual Action Plan
BNBNP	Bidoup - Nui Ba National Park
BNBNP MB	Bidoup - Nui Ba National Park Management Board
CMA	Collaborative Management Agreement
Dalat CPC	Dalat City's People's Committee
DARD	Department of Agriculture and Rural Development
DOCST	Department of Culture, Sport and Tourism
DONRE	Department of Natural Resources and Environment
DOST	Department of Science and Technology
DPC	District People's Committee
JICA	The Japan International Cooperation Agency
Lam Dong PPC	Lam Dong Province's People's Committee
LB-BR	Lang Biang World Biosphere Reserve
LB-BRMB	Lang Biang World Biosphere Reserve Management Board
M&E	Monitoring & Evaluation
MAB/UNESCO	Man and Biosphere Program of UNESCO
MP	Management Plan
NTFP	Non timber forestry product
PFES	Payment for Forest Environmental Service
PPMU	Provincial Project Management Unit
SNRM	Sustainable Natural Resource Management Project
TIPC	Center for Tourism, Trade, Investment and Promotion
TOR	Terms of Reference
UNESCO	The United Nations Educational, Scientific and Cultural Organization
WG	Working Group

I. NECESSITY

Lang Biang World Biosphere Reserve (hereinafter referred to as LB-BR) is the 9th BR of Vietnam which has participated in the world's network of 650 BRs. LB-BR was recognized by the World's Committee on the Man and Biosphere at the United Nations Educational Scientific and Cultural Organization (UNESCO) meeting dated June 9, 2015 in Paris, France.

The Sustainable Natural Resource Management (SNRM) Project is funded by the Japanese Government to strengthen Vietnam's capacity on sustainable natural resource management. The project is funded by Japan International Cooperation Agency (JICA) and implemented by the Ministry of Agriculture and Rural Development of Vietnam in the 2015-2020 period in 5 provinces, namely Dien Bien, Lai Chau, Son La, Hoa Binh, and Lam Dong.

The SNRM project consists of 4 main components, of which activities of Component 3 are implemented in Lang Biang WBR. The main objective of Component 3 is to establish an integrated and collaborative ecosystem management system to conserve and manage sustainably LB-BR.

The LB-BR MB with the support and fund from SNRM Project - Component 3 had developed a 5-year management plan (2018-2022) for LB-BR which was then approved by Lam Dong PC at its Decision No. 786/QD-UBND dated April 27, 2018. The management plan (MP) is aimed at establishing a multi-sectoral cooperation mechanism for the protection, maintenance and development of ecosystem services and pursuance of Peoples' well-being and economic development in accordance with the national sustainable development objective. The MP consists of 9 programs to be implemented in the 2018-2022 period with 36 activities (sub-programs), of which there are 24 prioritized activities.

Under the MP and decision No. 786/QD-UBND dated 27/4/2018, LB-BR MB and relevant provincial, local organizations are required to formulate / implement / monitor the annual action plan (AAP) to promote forest protection and local community development within LB-BR in a collaborative and sustainable manner.

Based on functions and responsibilities in accordance with the 5-year MP, each relevant organization formulates AAP of their own. LB-BR MB summarizes and compile the individual AAPs into the LB-BR AAP.

In 2018, JICA – SNRM project: Component 3 implemented the contracted work by local consultant to support 12 organizations concerned to formulate AAP 2019 following the goals of the MP. AAP 2019 shall include activities of 12 organizations to be implemented in six districts and one city within LB-BR and to be relevant with 9 programs of LB-BR approved by Lam Dong PPC in the 5-year MP.

The monitoring work is conducted to promote the implementation of AAP 2019 by 12 organizations in order to support those organizations and to avoid confusion.

This report summarized the monitoring and evaluation of the AAP 2019 implementation in two periods (between Jan-Jun 2019 and between Jan-Dec 2019) by 12 organizations under the agreed terms and conditions between SNRM project: Component 3 and Local consultant under the contract of monitoring the implementation of AAP 2019 by the organizations concerned within LB-BR.

II. TASK CONTENTS AND REQUIREMENTS

2.1. Task contents

The task of “*Monitoring on LB-BR Management Plan Implementation in 2019*” is implemented under the Contract dated July 01, 2019 between Sustainable Natural Resource Management Project (SNRM- Component 3) and the Local Consultant.

The task shall be implemented from 01/7/2019 to 31/12/2019.

Main tasks shall include:

- i. Under the overall and direct guidance of the JICA expert team (led by Mr. Oda Kensei, Team Leader of Component 3/ Collaborative Management Expert) and in close communication with the PPMU, the consultant shall perform the followings:
- ii. Contact to representatives of the 12 organizations concerned (BNBNP MB, DARD, DONRE, DOST, DOCST, Dalat CPC, TIPC and 5 DPCs in LB-BR) including Working Group (WG) members for collecting information on the implementation progress of the 2019 AAP (period: Jan-June 2019). (Please use Annual Action Plan Monitoring Form attached in the guideline of AAP formulation (Appendix 5) Make and submit to the JICA expert team a list of persons you met in the above process at each organization on a monthly basis [by 15th July]
- iii. Support the 6 monthly monitoring meeting on the 2019 AAP implementation

- which is to be convened by LB-BR MB secretariat where the consultant is required to make a presentation on the summary of the 2019 AAP implementation (Jan-June 2019) by 12 organizations concerned based on the collected information in the above task i). [To be held in the end of July]
- iv. Collect information on the monitoring of the implementation of the 2019 AAPs (period: Jan-Dec (estimated) 2019) by 12 organizations concerned before the meeting below) is organized (Please use Annual Action Plan Monitoring Form). Make and submit to the JICA expert team a list of persons you met in the above process at each organization on a monthly basis.
 - v. Support 6 monthly monitoring meeting on the 2019 AAP implementation which is to be convened by LB-BR MB secretariat in October or November 2019 where the consultant is required to make a presentation on the summary of the 2019 AAP implementation by 12 organizations concerned. Also, the consultant is required to provide the guidance on the formulation on the 2020 AAP by each organization concerned in accordance with the guideline of the AAP formulation.
 - vi. Compile the collected data from each organization and make a draft report on the Monitoring and Evaluation (M&E) of the 2019 AAP implementation by 12 organizations concerned, which will be submitted to the JICA expert team/PPMU for approval. If any comments are provided by the JICA expert team/PPMU, the consultant is required to revise it until approval is made. The consultant is required to make a presentation on the essence of the report in the 8th meeting of the LB-BR MB.

2.2. Outputs

Outputs shall include 02 main reports per TOR as follows:

- (i). Compiled results of the 12 organizations (BNBNP MB, DARD, DONRE, DOST, DOCST, Dalat CPC, TIPC, and 5 DPCs in LB-BR) on the implementation status of 2019 AAP (Jan-Jun 2019) using the Annual Action Plan Monitoring Form (Vietnamese only).
- (ii). Monitoring/ evaluation report on the implementation of AAPs for 2019 of the 12 organizations (English and Vietnamese).

III. IMPLEMENTATION METHODOLOGY

The monitoring and evaluation of AAP 2019 implementation by 12 organizations concerned is made through the following approach:

(1). Review the 5-year MP, the Decision No. 786/QD-UBND dated 27/4/2018 by Lam Dong PPC and Annual Plan of 2019 of LB-BR.

(2). Identify the contents to be done and timeline (under the TOR). Develop the working plan, questionnaire and information collection templates (for provincial and local organizations) following the AAP monitoring sheet attached to AAP formulation guideline - Annex 5.

(3). Communicate by phones with persons in charge, working group (WG) members to make appointments and confirm meeting time with provincial and responsible departments, DPCs and CPC (12 organizations) within LB-BR. Send questionnaire and information collection templates by email and request for clarification, questions on data provided about the implementation of AAP 2019 (Between Jan-Jun and Jan-Dec (estimated), 2019) by individual departments.

(4). Follow the schedule to visit organizations or to meet persons in charge at provincial and responsible departments, DPCs and CPC (12 organizations). Review the information provided and compare the data with those of 5-year MP and AAP 2019 of LB-BR.

If the information of AAP 2019 implementation provided (first 6 months and the whole 2019) matches with the 5-year MP and LB-BR AAP 2019, the information provider shall give a signature to confirm the verification. If there is any irrelevance or confusion in the questionnaire, the provider shall be requested to update, revise and sign for confirmation.

(5). Compile data provided by 12 organizations (BNBNP, DARD, DONRE, DOCST, DOST, Dalat CPC, TIPC, and five DPCs) about the implementation of AAP 2019 (between Jan-Jun and between Jan-Dec (estimated), 2019).

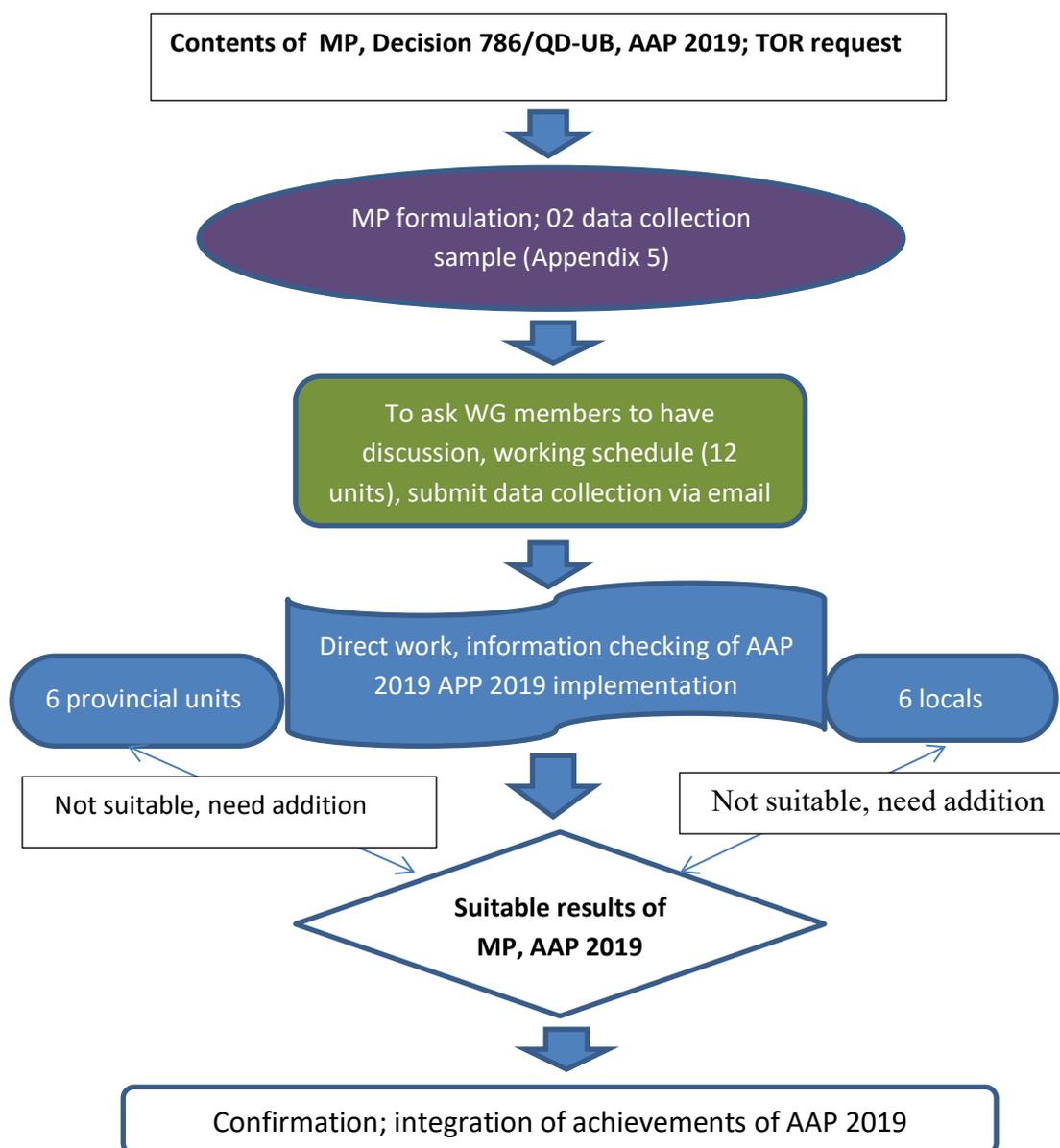


Image 1. Approach of monitoring the implementation of AAP 2019

IV. RESULTS OF IMPLEMENTATION

4.1. Between Jan – Jun 2019

4.1.1. Implementation Progress

From 01/7/2019 to 31/7/2019, in accordance with the signed Consultant contract and its TOR, the following works were conducted and completed to collect the information and compile the data about AAP 2019 implementation (between Jan – Jun 2019) by 12 organizations (BNBNP MB, DARD, DONRE, DOST, DOCST, Dalat CPC, TIPC, DPCs of Lac Duong, Don Duong, Duc Trong, Lam Ha and Dam Rong).

Table 1. Progress and monitoring activities (between Jan-Jun 2019)

Time	Activities	Participants	Output
01/7/2019	Discussion and signing of contract	SNRM- Component 3 and Local consultant	Signed contract and agreed TOR
02/7/2019	Desk review into the MP of LB-BR, decision No. 786/QD-UBND dated 27/4/2018 by Lam Dong PPC and AAP 2019 of LB-BR; development of the information collection sheet	Local consultant	Full understanding about the MP and AAP 2019; Development of 02 templates of information collecting sheet on 2019 AAP implementation (6 months) of provincial departments and local bodies concerned
03/7/2019	Discussion with WGs about the information collection and coordination on the meeting time with BNBPN MB, DARD, DONRE, DOST, DOCST, TIPC	Local consultant and WG members from provincial organizations	Agreement on meeting time and request of information collection about the progress of implementing AAP 2019 (6 months); delivery the information sheet to emails
04/7/2019	Discussion with WGs about the information collection and coordination on the meeting time with Dalat CPC, DPCs of Lac Duong, Don Duong, Duc	Local consultant and WG members of five districts and Dalat City	Agreement on meeting time and the information collection about the progress of implementing AAP 2019 (6 months); delivery the information

	Trong, Lam Ha and Dam Rong		sheet to emails
10/7/2019 - 12/7/2019	Direct visit to confirm the information provided by BNBPN MB, DARD, DONRE, DOST, DOCST, TIPC	Local consultant, and WG members from 7 organizations concerned	Results on AAP 2019 implementation (6 months) by 7 organizations concerned with confirmed data
15/7/2019- 19/7/2019	Direct visit to confirm the information provided by Dalat CPC, DPCs of Lac Duong, Don Duong, Duc Trong, Lam Ha and Dam Rong	Local consultant, and WG members from 5 organizations concerned	Results on AAP 2019 implementation (6 months) by 5 organizations concerned with confirmed data
20/7/2019	List of participants joining to provide information about the AAPs 2019 implementation (6 months)	Local consultant	List of 12 members from 12 organizations to be sent to JICA consultant team
29/7/2019- 31/7/2019	Summarize the activities of AAPs 2019 implementation (6 months) by 12 organizations, prepare the compiled report	Local consultant	Compiled results of the 12 organizations to be sent to JICA consultant team

During the data collection and information compiling of AAP 2019 monitoring (from Jan to Jun 2019) by 12 organizations, some WGs and individuals cooperated to provide the information (details are listed in table 2).

Table 2. List of people who provided information (Jan-Jun 2019)

NO.	ORGANIZATION	INDIVIDUALS	OFFICE/ DEPARTMENT	Remarks	DATE
A PROVINCIAL ORGANIZATION					
1	DONRE	Nguyen Khanh Ngan	Environment Protection division	WG	10/7
2	DARD	Le Van Trung	Planning and Administrative division	WG	10/7
3	DOCST	Hoang Ngoc Huy	Tourism management division	WG	11/7
4	DOST	Pham Ngoc Bao Da	Science management division		11/7
5	TIPC	Nguyen Thi Thu Hien	Promotion and tourism guiding division		12/7
6	BNBNP	Le Van Son	ICTHER	WG	12/7
B LOCAL ORGANIZATION					
1	Dalat CPC	Nguyen Trong Mo	CPC office	WG	15/7
2	Lac Duong DPC	Pham Hong Viet	DPC office		16/7
3	Lam Ha DPC	Vu Ba Yeu	DARD under DPC		18/7
4	Dam Rong DPC	Duong Thai Hoi	DPC office		18/7
5	Don Duong DPC	Nguyen Quoc Duy	DARD under DPC		17/7
6	Duc Trong DPC	Nguyen Huy Hoang	DONRE under DPC		19/7

4.1.2. Results of AAP 2019 implementation (Jan - Jun 2019) by 12 organizations

Based on the information and data collected about the AAP 2019 implementation (between Jan - June, 2019) by 12 organizations concerned, a summary was made on the annual monitoring template (for 9 Programs under 5-year MP). The results are as follows:

- Programs: 9 out of 9 programs were implemented.

Particularly, the program of Monitoring & Evaluation does not have specific plan for implementation; the program of International Cooperation includes 4 activities implemented without specific budget (mainly technical support activities); the program of culture conservation is less likely to be implemented with specific activities in the first six months of 2019.

The remaining six programs of the AAPs formulated have several activities implemented by the organizations concerned. The completion rate of the first 6 months of 2019 ranged from 3,2% (Support in Environmentally Friendly Economic Development) to 86,2% (Environmental Pollution Reduction) within allocated budget for the programs.

- In accordance with the monitoring template, activities and budget for PFES within LB-BR were moved from the program of Support in Environmentally Friendly Economic Development to the one of Natural Resource Conservation.

- The total budget of 2019 AAPs is 199.602,8 million dong. The first six months was allocated with 85.291,4 million dong, accounting for 42,7% of the total amount (up to 30/6/2019). Budget of the first six months for the program of the Natural Resource Conservation was the biggest with 64.885,4 million dong (42,1 % of the total budget allocated to the program) and for the one of Cultural Value Conservation was the smallest with 0 dong (0 %).

The monitoring results showed that activities of Cultural Value Conservation program were not implemented during the first six months and would be done during the 2nd six months.

- All of the AAP 2019 activities implemented by 12 organizations during the first 6 months (between Jan - June, 2019) were based on the approved plans and allocated budget (up to 30/6/2019). Therefore, there was no activities completed without budget.

Table 3. Results of monitoring AAP 2019 (Jan-Jun 2019) by 9 programs

No.	Program	2019 budget (million dong)	Completion rate (first 6 months of 2019)	Budget of first 6 months (million dong)	% of completed activities (without budget)
1	Natural Resource Conservation	153.949,1	42,1	64.885,4	0
2	Cultural Value Conservation	1.500,0	0	0	0
3	Support in Environmentally Friendly Economic Development	15.751,0	3,2	500,0	0
4	Tourism Development	3.787,0	39,0	1.475,3	0
5	Environmental Pollution Reduction	18.166,0	86,2	15.654,2	0
6	Environmental Education and Communication	1.300,0	57,2	743,8	0
7	Scientific Research	5.150,0	39,5	2.033,2	0
8	Monitoring & Evaluation	0	0	0	0
9	International Cooperation	0	0	0	0
	TOTAL	199.602,8	42,7	85.291,4	0

The summary of the total activities (35 categorized as sub-programs or activities of the MP) /sub-activities implemented during Jan-Jun 2019 showed that:

- 17 out of 35 activities were implemented during this period with 57 sub-activities (tasks) completed with recorded results.
- Natural Resource Conservation program has 4 out of 6 activities/ 18 sub-activities implemented;
- Scientific Research has 2 out of 3 activities/ 12 research implemented;

- Environmental Pollution Reduction has 2 out of 4 activities/ 8 sub-activities completed;
- Tourism Development has 3 out of 3 activities with 7 sub-activities;
- Support in Economic Development has 3 out of 4 activities/ 5 sub-activities recorded.

Table 4. Activities under AAP (Jan-Jun 2019)

No.	Program	Out of 35 programs of MP	Specific activities (6 months)	Budget for 6 months (million dong)	Remarks
1	Natural Resource Conservation	4/6	18	64.885,4	
2	Cultural Value Conservation	0/5	0	0	Not yet implement
3	Support in Environmentally Friendly Economic Development	3/4	5	500,0	
4	Tourism Development	3/3	7	1.475,3	
5	Environmental Pollution Reduction	2/4	8	15.654,2	
6	Environmental Education and Communication	1/3	4	743,8	
7	Scientific Research	2/3	12	2.033,2	
8	Monitoring & Evaluation	1/4	1	0	Not yet evaluated
9	International Cooperation	1/3	4	0	Technical support
	TOTAL	17/35	57	85.291,4	

- Programs having the least activities implemented include: Environmental Education and Communication with 1 out of 3 activities/ 4 sub-activities implemented;

International Cooperation with 1 out of 4 activities/ 4 sub-activities; Monitoring & Evaluation with 1 out of 4 activities/ 01 sub-activity.

The program of Cultural Value Conservation has no activity implemented within the first 6 months of the year.

Details and data on monitoring activities of AAP 2019 (Jan – Jun 2019) of 9 Programs and 35 activities of LB-BR are presented in Annex 1 attached to this report.

4.2. Monitoring the implementation of AAP 2019 (Jan-Dec 2019) by 12 organizations concerned

4.2.1. Progress of implementation

The monitoring /evaluation on AAP 2019 implemented between 21/8/2019 to 25/12/2019 by the organizations concerned was conducted with data provided by 6 provincial organizations (BNBNP, DARD, DONRE, DOCST, DOST, TIPC) and 6 local organizations (Dalat CPC, DPCs of Lac Duong, Lam Ha, Dam Rong, Don Duong and Duc Trong).

Table 5. Progress of monitoring AAP 2019 implementation (Jan-Dec 2019)

Time	Item	Participants	Outputs
21/8/2019	Prepare, report the results of monitoring AAP implementation of Jan-Jun 2019	Local consultant	Report at the workshop for presenting monitoring results (Jan-Jun 2019)
30/9/2019 - 01/10/2019	Communicate with 12 organizations concerned about the contents, information required, information collection template (Jan- Dec)	Local consultant; relevant organizations	Agree with representative from 12 organizations on contents, information to be provided, meeting time and send the questionnaires in advance
02/10/2019 - 09/10/2019	Work with WG members to collect data on results of AAP 2019 implementation from 6 provincial organizations	Local consultant and WG members	Questionnaires, information sheets to collect data about results of AAP 2019 implementation by 6 provincial organizations
10/10/2019 - 17/10/2019	Work with WG members to collect data and achievements of AAP 2019 implementation from 6 local organizations	Local consultant and WG members	Questionnaires, information sheets to collect data about results of AAP 2019 implementation by 6 local organizations

21/10/2019 - 23/10/2019	Review and confirm data by 12 organizations concerned	Local consultant and WG members	Results of monitoring AAP 2019 implementation by 12 organizations are confirmed
05/11/2019 - 07/11/2019	Summarize results of AAP 2019 implementation (Jan-Dec, 2019) by 12 organizations concerned by 9 programs and 35 activities of 5-year MP	Local consultant	Tables to summarize data collected regarding results of monitoring AAP 2019 implementation by 12 organizations concerned are produced
13/11/2019 - 15/11/2019	Prepare summary report of results on monitoring AAP 2019 implementation; guidelines to formulate AAP 2020; participate in workshop to present the monitoring results	Local consultant	Summary report on results of monitoring AAP 2019 implementation; guidelines to formulate AAP 2020
03/12/2019 - 06/11/2019	Draft report on the results of monitoring AAP2019 implementation by 12 organizations concerned within LB-BR (Vietnamese)	Local consultant	Draft report on the results of monitoring AAP 2019 implementation by 12 organizations concerned within LB-BR (Vietnamese)
09/12/2019 - 12/12/2019	Draft report on the results of monitoring AAP2019 implementation by 12 organizations concerned within LB-BR (English)	Local consultant	Draft report on the results of monitoring AAP 2019 implementation by 12 organizations concerned within LB-BR (English)
17 - 25/12/2019	Finalize the report on the results of monitoring AAP2019 implementation (Vietnamese, English) after receiving comments from JICA consultant team	Local consultant	The report on the results of monitoring AAP2019 implementation (Vietnamese, English) submitted to JICA consultant team

During the data collection and information compiling of AAP 2019 monitoring (from Jan to Dec 2019 estimated) by 12 organizations, some WGs and individuals cooperated to provide the information is listed in table 6.

Table 6. List of people who provided information (Jan-Dec 2019)

NO.	ORGANIZATION	INDIVIDUALS	OFFICE/ DEPARTMENT	Remarks	DATE
A PROVINCIAL ORGANIZATIONS					
1	DONRE	Nguyen Khanh Ngan	Environment Protection division	WG	02/10
2	DARD	Le Van Trung	Planning and Administrative division	WG	03/10
3	DOCST	Hoang Ngoc Huy	Tourism management division	WG	04/10
4	DOST	Pham Ngoc Bao Da	Science management division		07/10
5	TIPC	Nguyen Thi Thu Hien	Promotion and tourism guiding division		08/10
6	BNBNP	Le Van Son	ICTHER	WG	09/10
B LOCAL ORGANIZATIONS					
1	Dalat CPC	Nguyen Trong Mo	CPC office	WG	10/10
2	Lac Duong DPC	Pham Hong Viet	DPC office		11/10
3	Lam Ha DPC	Vu Ba Yeu	DARD under DPC		14/10
4	Dam Rong DPC	Duong Thai Hoi	DPC office		15/10
5	Don Duong DPC	Nguyen Quoc Duy	DARD under DPC		16/10
6	Duc Trong DPC	Nguyen Huy Hoang	DONRE under DPC		17/10

4.2.2. Results on AAP 2019 implementation of 12 organizations concerned

The monitoring, evaluation results on AAP 2019 implementation (from Jan to Dec (estimated) by 12 organizations concerned were summarized in terms of 9 programs of the 5-year MP (See details in Table 7).

Brief information of this period is as follows:

- Programs: all 9 programs were implemented by the organizations concerned.

- Budget: Total budget for AAP 2019 from 12 organizations concerned is 269.280,8 million dong, out of which, 246.071,7 million dong was consumed, accounting for 91,4% of the total budget.

Table 7. Summaries of AAP implementation (Jan-Dec 2019) by 9 programs

No.		Budget by AAP 2019 (million dong)	Estimated % of completion in 2019	Estimated budget in 2019 (million dong)	% of completed activities (no budget)
1	Natural Resource Conservation	182.150,6	91,7	156.705,6	0
2	Cultural Value Conservation	5.950,0	100	5.950,0	0
3	Support in Environmentally Friendly Economic Development	12.081,5	74,1	8.951,3	0
4	Tourism Development	4.486,8	81,1	3.641,0	0
5	Environmental Pollution Reduction	55.557,0	93,2	51.776,6	0
6	Environmental Education and Communication	1.270,0	91,3	1.160,0	0
7	Scientific Research	6.372,9	97,8	6.231,9	0
8	Monitoring & Evaluation	412,0	100	412,0	0
9	International Cooperation	1.000,0	100	1.000,0	0

TOTAL	269.280,8	91,4	246.071,7	0
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The budget consumption for implementation of the activities under Natural Resource Conservation program was the biggest with 156.705,6 million dong (current estimated consumption rate is 91,7 %) and under Monitoring & Evaluation program was the smallest with 412,0 million dong (the current consumption rate is 100%).

The current budget consumption and consumption rate for remaining seven programs were as follows. Environmental Pollution Reduction program with 51.776,6 million dong (93,2%), Support in Economic Development program with 8.951,3 million dong (74,1%); Scientific Research program with 6.231,9 million dong (97,8%); Cultural Value Conservation program with 5.950,0 million dong (100%); Tourism Development program with 3.641,0 million dong (81,1%); Environmental Education and Communication program with 1.160,0 million dong (91,3%) and International Cooperation program with 1.000,0 million dong (100%).

- No activities completed without budget allocated.

The detailed information of activities (by 35 activities of the MP) with sub-activities (tasks) implemented in 2019 (Jan – Dec 2019 estimated) were presented in table 8.

The data showed that:

- 24 out of 35 activities/ 93 sub-activities (task) were implemented in this period.

- Natural Resource Conservation: 5 out of 6 activities/ 20 sub-activities were implemented; 01 activity of formulating a master plan for conservation and sustainable development of LB-BR was not implemented in 2019.

- Cultural Value Conservation: 3 out of 5 activities/ 4 sub-activities were implemented; the activities of proposing a mechanism to combine the conservation of natural and cultural values and constructing a Central Highland Nature were not.

- Support in Environmentally Friendly Economic Development: 3 out of 5 activities/ 4 sub-activities were implemented.

- Tourism Development: 3 out of 3 activities/ 13 sub-activities were implemented.

- Environmental Pollution Reduction: 3 out of 4 activities/ 8 sub-activities were implemented; the activities of Sorting domestic waste at source and making a model of waste management (eco toilet, biogas, compost) were not.

- Environmental Education and Communication: 2 out of 3 activities/ 5 sub-activities were implemented. The formulation of media campaign for LB-BR values was not.

- Scientific Research: 2 out of 3 activities/ 14 research were implemented. The collaboration to implement scientific research was not.

Table 8. Numbers of activities done by AAP 2019 (Jan-Dec 2019)

No.	Program	35 Activities under MP	Activities	Estimated (million dong)	Remarks
1	Natural Resource Conservation	5/6	20	156.705,6	
2	Cultural Value Conservation	3/5	4	5.950,0	
3	Support in Environmentally Friendly Economic Development	4/4	9	8.951,3	
4	Tourism Development	3/3	13	3.641,0	
5	Environmental Pollution Reduction	2/4	18	51.776,6	
6	Environmental Education and Communication	2/3	5	1.160,0	
7	Scientific Research	2/3	14	6.231,9	
8	Monitoring & Evaluation	2/4	2	412,0	
9	International Cooperation	1/3	4	1.000,0	Technical support (3/4)
	TOTAL	24/35	93	246.071,7	

- Monitoring & Evaluation: 2 out of 4 activities with 2 tasks were implemented; the formulation of 5-year mid-term investment plan for LB-BR and the expansion plan for LB-BR were not.

- International Cooperation: 1 out of 3 activities with 4 tasks were implemented. Although the cooperation with MAB/UNESCO and the cooperation with BR network does not have any specific budget, cooperation with MAB/ UNESCO and BR network were conducted by the LB-BRMB and the SNRM project component 3 through the participation in the MAB annual meeting etc.

The following recommendations were collected during the data collection at relevant organizations. There were comments from 3 provincial organizations (DARD, DOST, TIPC) and from 4 local (Dalat City, Lam Ha, Dam Rong and Duc Trong District). The summary is presented in table 9.

Table 9. Summary of recommendations by organizations concerned

No.	Organizations	Recommendation
1	DARD	1. Forest owners in LB-BR should be suggested disseminating and promoting accurate information about boundaries of LB-BR for timely awareness of activities to be implemented. 2. Forest protection activities that used budget under LB-BR should be advised by LB-BR MB on how to conduct the activities in line with goals and functions of LB-BR
2	DOST	The LB-BR Secretariat update information for DOST on scientific international cooperation within LB-BR for better cooperation/ management.
3	TIPC	LB-BR MB is requested to collaborate with TIPC to produce some promotion materials, videos to promote LB-BR and LB information BR products
4	Dalat CPC	LB-BR MB is requested to integrated the images, brands of Dalat and agricultural products of Dalat City with the name “Dalat: Miracle from the Good Earth”
5	Lam Ha DPC	LB-BR MB is requested to provide updated information of activities to DPC for better collaboration, to provide financial support/ budget for DPC to implement projects on tourism, handicraft village conservation (silk worm, weaving, agro tourism....)
6	Dam Rong DPC	LB-BR is requested to regularly update information

		of activities to DPC for better collaboration
7	Duc Trong DPC	<p>1. LB-BR is requested to regularly update information of activities to DPC for better collaboration</p> <p>2. LB-BR is requested to support budget to implement programs, activities relating to environmentally friendly economic development.</p>

4.3. Evaluation of AAP 2019 implementation by 12 organizations concerned

The monitoring of AAP 2019 implementation shows that some organizations did not fully understand the 5-year MP as well as their responsibilities assigned under decision No. 786/QD-UB (There was some confusion between activities of the programs). The implementation of AAP 2019 by some organizations was not integrated with their regular tasks (Dam Rong, Don Duong district). Budget to activities were not fully allocated (there was a big difference between the AAP 2019 and its implementation) due to shortage of the budgets of 12 organizations concerned. Thus, many sub-activities were not financially allocated.

4.3.1. Evaluation of AAP 2019 implementation.

The monitoring shows that there was changes between initial budgets assigned to AAP 2019 and actually allocated of 9 programs. The biggest change occurred at Natural Resource Conservation program (83,654.9 million dong increased) and Support in Economic Development program (148,868.0 million dong decreased). Details are presented in Table 10.

Table 10. Changes in budget to implement AAP 2019

No	Program	Budget by AAP 2019 (million dong)	Budget by monitoring results in 2019 (million dong)	Increased/decreased (million dong)	Estimation of implementation in 2019 (million dong)	Completion rate (%)
1	2	3	4	5 (= 4 - 3)	6	7
1	Natural Resource Conservation	98.495,7	182.150,6	83.654,9	156.705,6	91,7
2	Cultural Value Conservation	1.850,0	5.950,0	4.100,0	5.950,0	100
3	Support in Environmentally Friendly	160.949,5	12.081,5	-148.868,0	8.951,3	74,1

	Economic Development					
4	Tourism Development	4.430,0	4.486,8	56,8	3.641,0	81,1
5	Environmental Pollution Reduction	31.009,4	55.557,0	24.547,6	51.776,6	93,2
6	Environmental Education and Communication	1.300,0	1.270,0	- 30,0	1.160,0	91,3
7	Scientific Research	5.523,6	6.372,9	849,4	6.231,9	97,8
8	Monitoring & Evaluation	0	412,0	412,0	412,0	100
9	International Cooperation	0	1.000,0	1.000,0	1.000,0	100
TOTAL		303.558,2	269.280,8	- 34.277,4	246.071,7	91,4

Reasons for changes were moved PFES from Economic Development program to Natural Resource Conservation program. Other changes were due to additional activities compared to the initially formulated AAP 2019.

The implementation rate of the AAP 2019 is estimated to achieve 91.4% by the end of December 2019. That of the Natural Resource Conservation program is estimated to reach to 91.7% due to late disbursement by forest owners as well as to adjustment of PFES activities by newly issued decision No. 2121/QD-UBND dated 30/9/2019. Besides, funding resources for some activities on sustainable development goals of 2020 (from state budget) were not allocated (as of end of November 2019). On top of that, the implementation rate of the Support in Economic Development program is estimated to achieve only 74.1% due to late implementation and delayed completion time of some activities until early of 2020.

(2). Composition of budget in APP 2019

The table below shows the composition of budget allocated by four sources and by volume as follows:

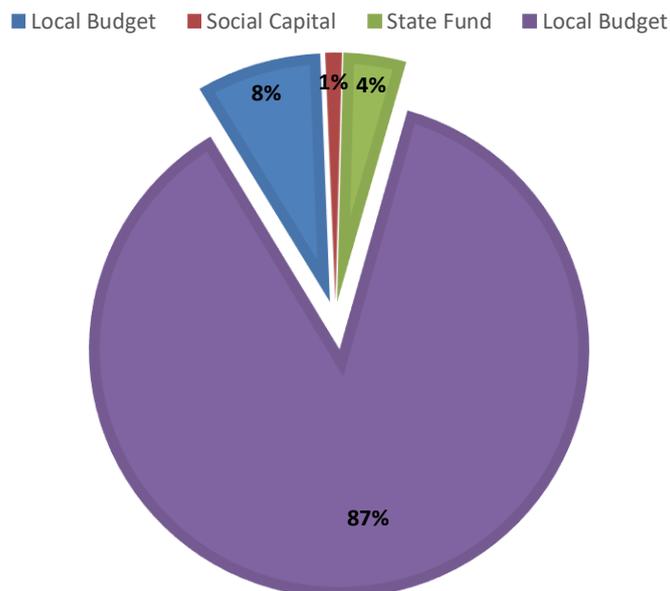


Image 2. Budget composition of AAP 2019 implementation

- (1). Local budget: 233.061,8 million dong, 86,5%
- (2). ODA: 22.968,0 million dong, 8,5%
- (3). State fund: 11.300,0 million dong, 4,2%
- (4). Social capital: 1.951,0 million dong, 0,7%

Through comparison between the initial APP 2019 and its implementation it is apparent that all the funding sources decreased (except for the social capita). Reasons for the reduction were analyzed when evaluating the budget for AAP 2019 implementation (section 4.3.1). Details are presented in table 11.

Table 11. Changes in funding sources for AAP 2019 implementation

No.	Funding sources	By initial AAP		By AAP implementation monitoring results		Increased/decreased (million dong)
		Budget (million dong)	Ratio (%)	Budget (million dong)	Ratio (%)	
1	State fund	17.933,20	5,9	11.300,0	4,2	-6.633,2
2	Local budget	251.687,92	82,9	233.061,8	86,5	-18.626,12
3	ODA	32.736,00	10,8	22.968,0	8,5	-9.768,0
4	Social capital	1.201,00	0,4	1.951,0	0,7	+750,0
TOTAL		303.558,115	100	269.280,8	100	-34.277,32

4.3.2. Evaluation of AAP 2019 implementation

From the template of monitoring AAP attached to the AAP formulation guideline – Annex 5, during the monitoring, PFES activities within LB-BR coded 3.1 was moved from Support in Economic Development program to 1.1 under the Natural Resource Conservation program.

Therefore, total activities within the monitoring scope were 35 rather than 36 in the 5-year MP. Total activities under the Support in Environmentally Friendly Economic Development Program decreased one to four activities to be monitored and evaluated.

Table 12. Changes in numbers of activities by the AAP 2019

No.	Programs	Total activities by initial AAP 2019		Total activities AAP 2019 implementation monitoring results	
		Activities/ 35 activities of MP	Sub- activities/ tasks	Activities/ 35 activities of MP	Sub- activities/ tasks
1	Natural Resource Conservation	5/6	18	5/6	20
2	Cultural Value Conservation	3/5	7	3/5	4
3	Support in Environmentally Friendly Economic Development	3/5	10	4/4	9
4	Tourism Development	3/3	14	3/3	13
5	Environmental Pollution Reduction	4/4	14	2/4	18
6	Environmental Education and Communication	2/3	5	2/3	5
7	Scientific Research	3/3	13	2/3	14
8	Monitoring & Evaluation	0/4	0	2/4	2
9	International Cooperation	1/3	5	1/3	4
TOTAL		24/36	86	24/35	93

4.3.3. Evaluation of AAP 2019 implementation

The outstanding achievements of AAP 2019 implementation at LB-BR include:

(1). Formulated programs of 5-year MP and activities of AAP 2019 were all implemented in 2019, with 93 activities in total (7 increased). The result of AAP 2019 implementation in LB-BR is considered to clearly reflect the goals of “conservation for development and development for conservation”.

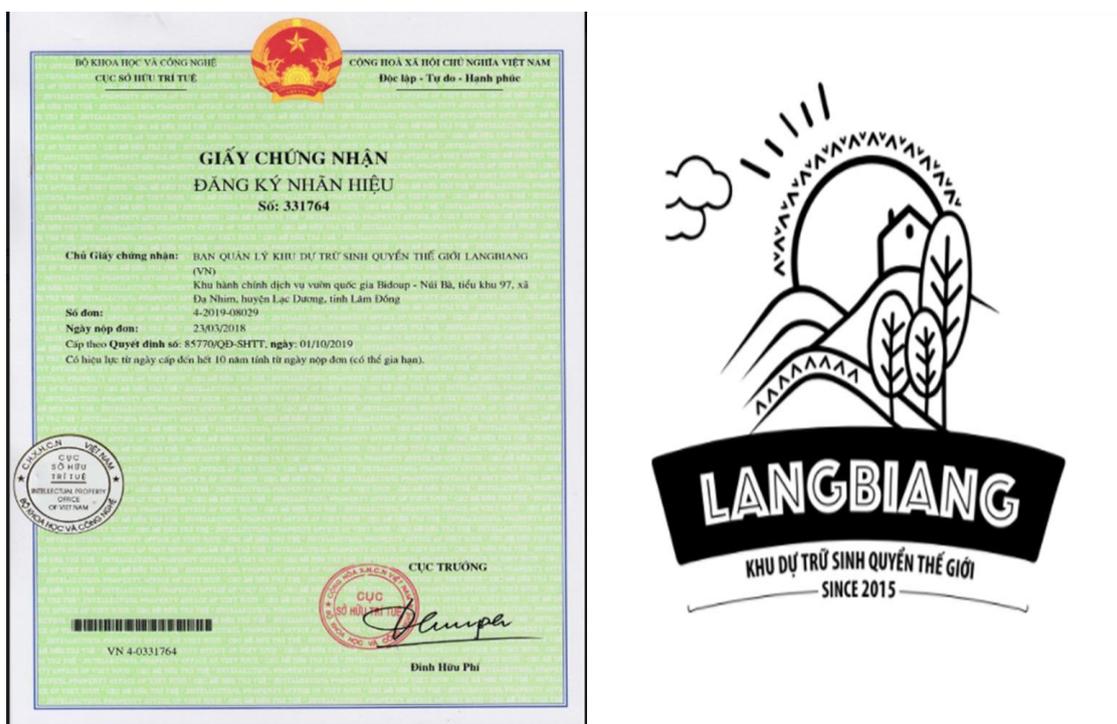


Image 3. Trade mark certificate and logo of LB-BR

(2). The Intellectual Property Office of Vietnam issued trade mark certificate No. 331764 under the decision No. 85770/QĐ-SHTT dated 01/10/2019 for the Logo of LB-BR and protected local products including: Coffee (group 30), Tea (group 31, 39), ecotourism (group 39) and Mushroom (group 29, 31).

(3). Many publications as well as goods were made to promote the biodiversity and cultural values of LB-BR.

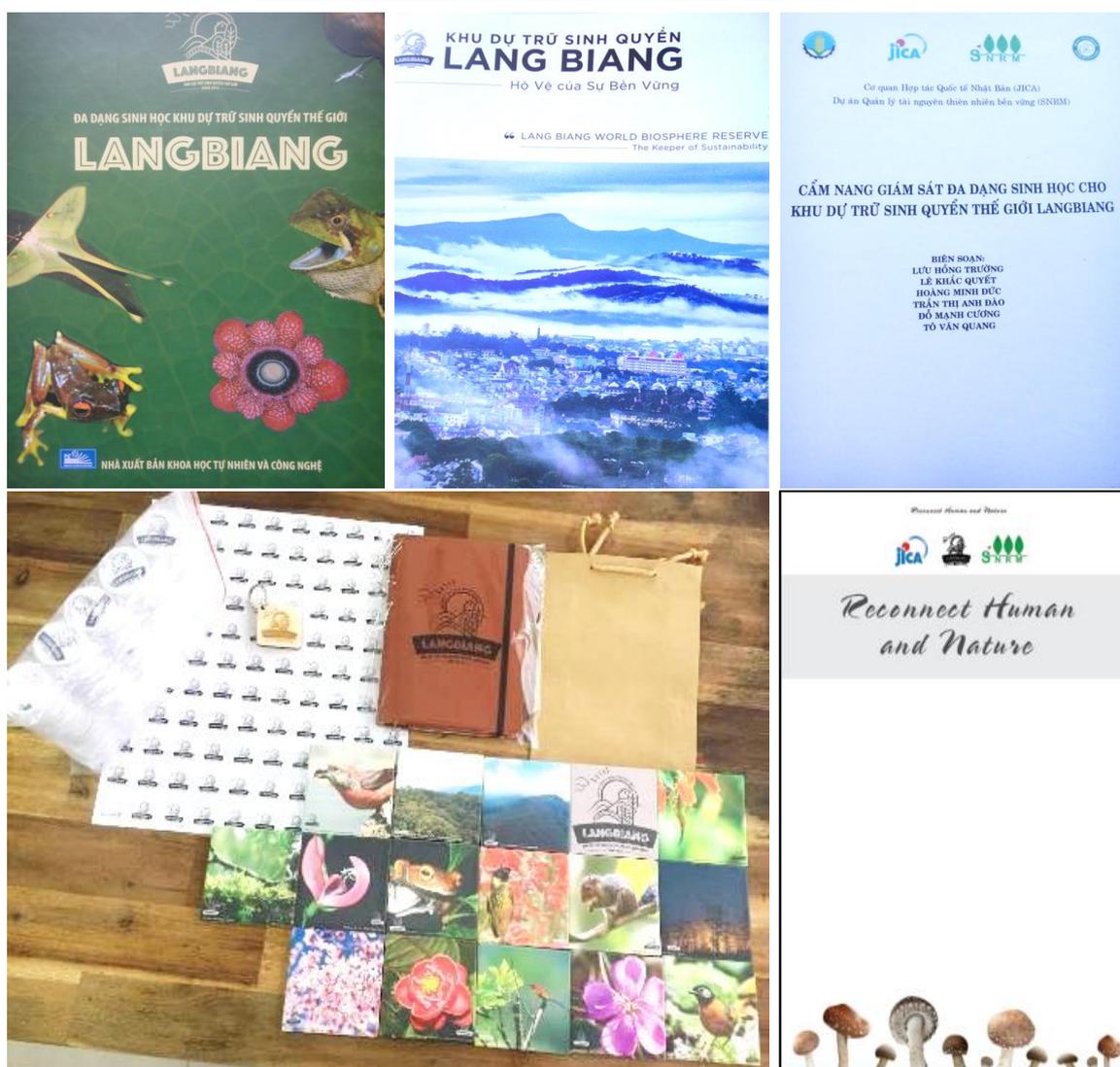


Image 4. Some published materials/ goods on LB-BR

(4). There were positive achievements in terms of natural resource conservation, forest protection management through improved PFES effectiveness, increases in forest protection contractors’ income. However, some NTFPs (mushroom, medicinal plants, orchids...) and wild animals have not been well managed.



Image 5. Forest protection activities and shortage in NTFP management

(5). During monitoring AAP 2019 implementation, it was observed that many good models have generated socio-economic benefits, including ecotourism, Environment Education tour, agro-tours, cow shed improvement, mushroom cultivation, artichoke cultivation and consumption... Activities to reduce environment pollution were conducted effectively.



Image 6. Cow shed improvement in Da Nhim commune, Lac Duong district supported by SNRM project



Image 7. Artichoke cultivation – consumption chain in Lac Duong district

(6). Some ODA projects, especially SNRM project component 3 (JICA – Japan) generated positive outputs, contributed to sustainable natural resource conservation of LB-BR through the conduct of forest and biodiversity monitoring, the latter of which confirmed critically endangered species and new species (*1),

enhance the effectiveness of PFES through CM model development including Drone (Fly-cam) monitoring, improve livelihoods

and increase local income improvement activities such as Collaborative Management

(*1) Discovery of critically endangered species and new species

Biodiversity Monitoring was continuously conducted in LB-BR with 35 camera traps confirmed very precious species in IUCN red list and Red book in Vietnam including "large-antlered muntjac (*Muntiacus vuquangensis*)" which is categorized as Critically Endangered in IUCN Red List. And one snake species collected through the biodiversity basic survey in 2017 was found out as a new species which was accepted / confirmed officially.

Platform (CMP) based Shiitake mushroom production activities (*2) and cowshed improvement activities.

Other projects are Vietnam Forests and Deltas Program (sponsored by USAID – implemented by Winrock International), CAFE-REED project (sponsored by BMU – implemented by SNV)...

Apart from significant achievements, there were several shortcomings as follows:

(i). International projects were implemented in LB-BR,

some of which had no collaboration with LBBR MB in the formulation and implementation stages. Some examples include the GIZ-BIO for conservation, sustainable use of biodiversity and forest ecological systems in Vietnam (project site in BNNBP).

(ii). The task of collecting information, field data to evaluate AAP 2019 implementation was focused on 12 organizations concerned within LB-BR. Activities invested by private companies within the area were not checked, affecting the detailed evaluation of activities and budget composition (namely the source of social capital).

(iii). Based on the TOR, information to monitor AAP 2019 implementation was collected in October 2019 so monitoring data up to December 2019 was only an estimated one.

(*2) Shiitake mushroom production activities

The collaborative work for the expansion of the Shiitake mushroom production model among stakeholders such as DARD, DONRE, DPC/CPC, villagers, a private company and the project were successfully and continuously conducted with use of their own budgets/ money based on the agreement in the 4th CMP. And high- quality shiitake mushroom produced in the above mushroom production model was continuously provided

V. CONCLUSION AND RECOMMENDATION

After monitoring and evaluating AAP 2019 implementation by 12 organizations concerned within the LB-BR, it is concluded that:

- In 2019, all the 12 organizations concerned implemented 9 programs under the 5-year MP including relevant activities formulated by AAP 2019 with 93 sub-activities/ tasks.
- Compared to the formulated AAP 2019, changes in total budget allocated and budget composition were observed. Total budget allocation of AAP2019 was 269,280.8 million dong (it was planned 303,558,115 million dong). Of which, provincial budget was 86.5%, state budget 4.2%, ODA 8.5% and socialization budget 0.7%.
- There was a significant imbalance among budget allocation for each programs in 2019. The Natural Resource Conservation Program had the largest budget of 182,150.6 million and the Monitoring and Evaluation Program had the least budget of 412 million dong. Other programs were allocated from 1,000 million to 55,557 million dong.
- In terms of implementation, on average, 91.4% of total activities were implemented up to December 2019. The programs of Cultural Value Conservation, Monitoring and Evaluation, and International Cooperation achieved 100% of implementation, which were followed by Scientific Research 97.8%, Environmental Pollution Reduction 93.2%, Natural Resource Conservation 91.7%. The Support in Environmentally Friendly Economic Development had the lowest rate of implementation of 74.1%.
- The monitoring evaluation showed that relevant organizations concerned did not integrate the LBBR activities under the 5-year management plan and AAP2019 to their regular tasks and responsibilities. Most of district organizations have not taken any initiative to develop and implement AAPs.
- The activities conducted by private companies within LB-BR were not been monitored nor recorded properly by local organizations. Some projects supported by international donors made no cooperation with LB-BR MB during the formulation and implementation of such projects.
- The LB-BRMB secretariat is not fully functioned due to the situation where any BNBNPMB staff is not assigned as the secretariat or the staff is concurrently served as the secretariat although the secretariat play a crucial role in terms of formulation/ implementation / monitoring of the AAP.

- The capacity of the 12 organizations concerned in terms of formulating/ implementing / monitoring of AAPs was evaluated to be required for further improvement probably due to limited opportunities of the formulation/ implementation/ monitoring of the AAP. Most of the organizations concerned in LBBR did not actively participate in the formulation, implementation and monitoring of the AAPs in 2019 rather do so only after being urged. Thus, their understanding on the importance of the AAP are evaluated to be required for further strengthened.

Recommendation:

- LB-BR MB is strongly suggested to have regular meetings with heads of 12 organizations to discuss and exchange information and to collaborate for formulation/ implementation of AAP including development of collaborative activity plans among the organizations concerned.

- The LB-BR MB Secretariat whose roles and responsibilities are critically important for the implementation of relevant tasks in timely and effective manner is strongly suggested to be strengthened to implement relevant tasks including information sharing with organizations concerned through immediate employment of a full-time/ competent consultant, considering the project support will be soon terminated.

- Capacities of the provincial, local organizations concerned in formulating and implementing AAPs as well as understanding on the importance of the Management Plan including AAPs should be continuously strengthened.

- Activities done by private companies within LB-BR should be monitored and updated periodically for appropriate evaluation on activities conducted in the LB-BR.

- Activities by SNRM project: Component 3 has generated very positive outputs for natural resource conservation and improvement of livelihood of local communities within LB-BR. It is strongly suggested that LB-BR MB should make lots of efforts to replicate the outputs in LB-BR and that LB-BR MB should request JICA to continue activities.

ANNEX 1. SUMMARY OF IMPLEMENTATION OF AAPs IN LANG BIANG WORLD BIOSPHERE RESERVE (Jan-Jun 2019)

No.	5-year Management Plan	2019 activities	Budget of 2019 (million dong)	Completion up to 30/6/2019 (%)	Budget disbursed up to 30/6/2019 (million dong)	Implementors
1	Natural Resource Conservation	Total of the program	153,949.1	42.1	64,885.4	
1.1	Protect forest resources	Total of the activities	142,481.1		61,098.2	
		<i>1.1.1</i> PFES for 166.955ha at 15 government forest owners, 32 companies renting forestry land and communities at three districts including Dam Rong, Lam Ha, Duc Trong	107,118.9	50%	53,559.5	DARD
		<i>1.1.2</i> Support additional wage for forest protection force under decision No. QD 44/2016/QD-TTg by the Prime Minister.	1,569.6	0	0	BNBNP
		<i>1.1.3</i> Afforestation, planting dispersal trees, landscaping trees in tourist sites that pay forest ecological service fee	4,449	0	0	DARD
		<i>1.1.4</i> The project of conserve and develop landscaping forest in the suburban of Dalat City	2,252.6	0	0	Dalat CPC
		<i>1.1.5</i> Support afforestation, planting dispersal and forestry trees on encroached land	1,500	0	0	DARD

		1.1.6	Support additional wage and fuel for ranger stations, forest protection stations within deforestation areas	1,207	0	0	DARD
		1.1.7	Forest plantation and caring after clearance under public investment plan of 2019 (18,49ha)	1,500	30%	450	DARD
		1.1.8	Forest plantation and caring on annual basis (138,69ha)	11,358	15%	1,703.7	DARD
		1.1.9	Planting dispersal trees under the project no. 2309/QD-UBND dated 25/10/2016	1,660	50%	830	Local levels in LB-BR
		1.1.10	Enhance the effectiveness of forest protection through social economic development in the buffer zone of special used forests under decision No. 24/2012/QD-TTg	1,800	30%	540	BNBNP
		1.1.11	Patrol, raise and train patrolling dogs to protect forest and prevent re-encroachment	180	40%	72	BNBNP
		1.1.11	Support activities of sustainable natural resource management	7,886.0	50%	3,943.0	ODA budget; SNRM - component 3
1.2	Forest fire protection	Total of the activities		9,198		3,679.2	
		1.2.1	Forest fire protection in the dry season of 2018-2019 at forest owners and ranger stations within LB-BR	9,198	40%	3,679.2	DARD. BNBNP million, 100%
		1.2.2	Enhance capacity of forest protection	Budget is not yet allocated	0	0	Provincial ranger dept.– sustainable development goal program – State budget

1.3	Planning for conservation and sustainable development of LB-BR	Total of the activities		0		0	
			Make a master plan for conservation and sustainable development of LB-BR	0	0	0	LB-BR MB
1.4	Biodiversity Conservation	Total of the activities		2,000		0	
		1.4.1	Finalize database, formulate a report of biodiversity status at provincial level and at conserve areas	Move to 2020	0	0	DONRE
		1.4.2	Survey and develop backgrounds of Don Duong conserved area	Move to 2020	0	0	DONRE
		1.4.3	Survey and evaluate wild animal breeding sites	1,250	0	0	DARD
		1.4.4	Survey the distribution of orchids species under near threatened IA group	750	0	0	DARD
1.5	Establish a botanical, zoological garden	Total of the activities		270		108	
		1.5.1	Take care the botanical garden and collect rare plants	270	40%	108	BNBNP
1.6	Develop collaborative management (CM) model	Total of the activities		0		0	
		1.6.1					
2	Cultural Value Conservation	Total of the program		1,500.0	0.0	0	
2.1	Propose a mechanism to combine nature and	Total of the activities		0		0	

	<i>culture conservation</i>					
2.2	<i>Conserve indigenous knowledge and traditional festivals</i>	<i>Total of the activities</i>		500		0
		2.2.1	Project on conserving and promoting the cultural identity of indigenous peoples, restoring and developing traditional villages associated with tourism activities in Lam Dong province in the period of 2018-2020 with a vision to 2030	500	0	0
2.3	<i>Conserve gong culture</i>	<i>Total of the activities</i>		600		0
		2.3.1	Project on conservation and development of the Central Highlands Gong Culture Cultural Space in Lam Dong province up to 2020	500	0	0
		2.3.2	Open gong training class	100	0	0
		2.3.3	Gong festival	No budget	0	0
2.4	<i>Restore traditional handicraft</i>	<i>Total of the activities</i>		400		0
		2.4.1	Project on conserving and promoting the cultural identity of indigenous people, restoring and developing traditional handicraft villages	300	0	0
		2.4.2	Maintaining activities at traditional weaving village in Dam Pao village, Da Don commune	No budget	0	0
		2.4.3	Restoring weaving village in Da Ra Hoa village, K'Long Hiep An	100	0	0

			commune				
2.5	<i>Open Central Highland Nature Museum</i>	<i>Total of the activities</i>		0		0	
		2.5.1	Opening the Central Highland Culture -Nature Museum	Yet implement	0	0	DOST
3	Support in Environmentally Friendly Economic Development	Total of the program		15,751	3.2	500	
3.1	<i>Formulate and develop LB-BR brand name</i>	<i>Total of the activities</i>		0		0	
		3.2.1	Continuing the registration of LB-BR trade mark certificate for services/ products of LB-BR	On going	0	0	BNBNP
3.2	<i>Promotion of public-private partnership in LB-BR</i>	<i>Total of the activities</i>		13,500		0	
		3.3.1	Coffee-agro-forestry project and forest quality improvement in Lam Dong province. Donor: BMU	13,500	0	0	DARD
3.3	<i>Green growth, ecological village/ urban area</i>	<i>Total of the activities</i>		0		0	
		3.4.1					
3.4	<i>Development of some sustainable livelihood models</i>	<i>Total of the activities</i>		2,251		500	
		3.5.1	Planting macadamia on the encroached land	No implement	0	0	Duc Trong DPC

		3.5.2	Cowshed improvements (using bio-bed)	300	0	0	Lac Duong DPC
		3.5.3	Jointly producing and consuming artichoke	1,051	28.5%	300	Lac Duong DPC
		3.5.4	Jointly producing and consuming coffee	100	0	0	Lac Duong DPC
		3.5.5	Mushroom cultivation model	800	25%	200	Lac Duong DPC
		3.5.6	Continuing to expand models of mushroom cultivation and cowshed improvement	0	0	0	Under SNRM project's activities
4	Responsible Tourism Development	Total of the program		3,787	39.0	1,475.3	
4.1	Development of tourism promotion strategies	Total of the activities		1,714		1,256.4	
		4.1.1	Surveying, collecting publication information for tourism promotion	30	100%	30	TIPC
		4.1.2	Publicizing and promoting tourism images and products of Da Lat - Lam Dong	0	0	0	TIPC
		4.1.3	Publishing "Da Lat - Miraculous crystallization from good soil" brand promotion publication	654	93%	608.2	TIPC
		4.1.4	Posters for events of the Province in 2019	150	100%	150	TIPC
		4.1.5	Promoting tourism activities at trade fairs, introducing Vietnamese tourism abroad	380	100%	380	TIPC
		4.1.6	Coordinating to promote Lam Dong Tourism on flights and carriers	270	26%	70.2	TIPC

		4.1.7	Joint programs for tourism development cooperation with localities	130	13.8%	17.9	DOCST
		4.1.8	Welcoming international famtrip, study tour delegations to Lam Dong for tourism survey	100.0	0	0	DOCST
4.2	<i>Development of agricultural tourism models</i>	<i>Total of the activities</i>		273		18.9	
		4.2.1	Appraising agricultural tourism models in the province	37.8	50%	18.9	DOCST
		4.2.2	Supporting development of agricultural tourism models	Chua KP	0%	0	Lam Ha DPC
		4.2.3	Learning experience of community-based tourism in connection with agriculture in Quang Nam	95.0	0%	0	DOCST
		4.2.4	Building the welcoming gate to agro tours	140	0	0	DOCST
4.3	<i>Development of community tourism models</i>	<i>Total of the activities</i>		1,800		200.0	
		4.3.1	Enhancing Central Highlands gong performance skills, investing in gong teams of Da Ra Hoa village and Klong village (Hiep An commune) and use the teams to promote community-based tourism	300	0	0	Duc Trong DPC
		4.3.2	Maintain community-based tourism model in BNBNP	500	0	0	BNBNP
		4.3.3	Support to build community tourism model	Chua KP	0	0	Lam Ha DPC

		4.3.4	Traditional village of ethnic people in Dung K'Si village, Da Chais commune and new residential area in Da Nhim commune	1,000	20%	200	Lac Duong DPC
5	Environmental Pollution Reduction	Total of the program		18,166.0	86.2	15,654.2	
5.1	Monitoring and evaluation of environmental quality	Total of the activities		4,730		2,874.2	
		5.1.1	Provincial environmental composition monitoring program	2,000	60%	1,200.0	DONRE
		5.1.2	Building and managing the national natural resource monitoring database	1,000	35%	350	DONRE
		5.1.3	District-level environmental composition monitoring program	200	60%	120	Lac Duong DPC
		5.1.4	Oil spill contingency plan	900	77.8%	700.2	DONRE
		5.1.5	Action plan for climate change responses in the 2021-2030 period with a vision to 2050 of Lam Dong province	630	80%	504	DONRE
5.2	Waste management (solid, waste water)	Total of the activities		13,436		12,780.0	
		5.2.1	Supporting to thoroughly solve severely polluting facilities	Move to 2020	0	0	DONRE
		5.2.2	Waste water collection and treatment system	12,400	100%	12,400.0	Dalat CPC
		5.2.3	Movement on combating plastic waste	400	70%	280	DONRE
		5.2.4	Project on collecting, transporting and treating pesticide packages	200	50%	100	DONRE

		5.2.5	Project: Collecting and treating pesticide packages in district	286	0	0	Lam Ha DPC
		5.2.6	Socialization program on waste collection in district	150	0%	0	Lam Ha DPC
5.3	Classification of domestic waste at source	Total of the activities		0		0	
		5.3.1	Guideline on classifying waste at origins	0	0	0	DONRE
5.4	Waste management model (eco-toilets, biogas, etc.)	Total of the activities		0.0		0	
		5.4.1	Compost from coffee bean shells, cow manure, and rice husk	0	0	0	BNBNP
		5.4.2	Model for treating bad smell from cattle raising facilities around Lien Khuong airport	No implement	0	0	Duc Trong DPC
6	Environmental Education and Communication	Total of the program		1,300	57.2	743.8	
6.1	Development of a communication strategy on biosphere reserve values	Total of the activities		0		0	
		6.1.1					
6.2	Building and operation of the website and social network of the biosphere reserve	Total of the activities		30		0	
		6.2.1	Operating website of Lang Biang BR	30.0	0	0	LB-BR MB
6.3	Environmental	Total of the activities		1,270		743.8	

	<i>education</i>						
		6.3.1	Communication, education and community awareness raising on responding to climate change, environmental protection and biodiversity conservation	700	71.4%	499.8	DONRE
		6.3.2	Propaganda on biodiversity conservation and environmental protection from the district's public environmental funding	200	70%	140	Don Duong, Duc Trong DPCs
		6.3.3	Coordinate religious associations to participate in environmental protection, respond to climate change	100	50%	50	DONRE
		6.3.4	Environmental education program on forest protection management	270.0	20%	54	BNBNP
7	Scientific Research	Total of the program		5,150	39.5	2,033.2	
7.1	Development of scientific research topics	Total of the activities		4,250		1,583.2	
		7.1.1	Researching to select and create anti-phytophthora, heat-resistant, high yielding and high quality potato varieties which can be cultivated all year round in Da Lat and its vicinity	228	50%	114	DOST
		7.1.2	Assessing the growth of Caribbean pine trial afforestation models in the ecological areas of Lam Dong province	213.9	25.5%	55	DOST
		7.1.3	Experimenting some special temperate fruit varieties (peach, plum) domestically imported in Da	308.3	50%	154	DOST

		Lat, Lac Duong, Lam Dong province				
	7.1.4	Assessing disaster prevention work and proposing solutions to improve efficiency in Lam Dong province	433.8	50%	217	DOST
	7.1.5	Researching geological events: cracks, landslide, and proposing measures to warn, prevent and overcome such events in Da Lat city, Lam Dong province	724.5	50.70%	367	DOST
	7.1.6	Researching and balancing water resource and proposing solutions to use properly water resource in Lam Dong province	691.4	25.5%	176	DOST
	7.1.7	Assessing the status of vegetable and flower production land degradation in Da Lat City and its vicinity	700	20%	140	DOST
	7.1.8	Thematic assessment on climatic conditions in Lam Dong province	200	90%	180	DONRE
	7.1.9	Research on sharing benefits and responsibilities of stakeholders in biodiversity conservation in Lam Dong province	Move to 2020	0	0	DONRE
	7.1.10	Building corridors to protect water resource	300	60%	180	DONRE
	7.1.11	Studying the process of reproduction and cultivation of <i>Sarcandra glabra</i> as a medicinal plant in Lam Dong	450	0	0	BNBNP
7.2	<i>Collaboration for the implementation of research</i>	<i>Total of the activities</i>	0		0	

		7.2.1	Project on evaluating the status and proposing solutions to improve the efficiency of exporting goods locally in Lam Dong	No implement	0	0	TIPC
7.3	<i>Application for S&T transfer</i>	<i>Total of the activities</i>		900		450	
		7.3.1	Project on applying advanced S&T to build Magic S reproduction and cultivation model in buffer zone of Bidoup - Nui Ba National Park	1,000.0	50%	450	BNBNP
8	Monitoring & Evaluation	Total of the program		0	0	0	
8.1	<i>Monitoring of the implementation of the management plan for the LB-BR</i>	<i>Total of the activities</i>		0		0	
		8.1.1					
8.2	<i>Biodiversity monitoring</i>	<i>Total of the activities</i>		0		0	
		8.2.1	Monitoring biodiversity on trails and transects established in 2018	Yet identify	0	0	Under SNRM project's activities
8.3	<i>Developing 5-year mid-term Investment Plan for LB-BR</i>	<i>Total of the activities</i>		0		0	
		8.3.1	Developing the 5-year mid-term Investment Plan for LB-BR	0	0	0	LB-BR MB
8.4	<i>Plan for expanding the BR</i>	<i>Total of the activities</i>		0		0	
		8.4.1					
9	International Cooperation	Total of the program		0	0	0	

9.1	Cooperation with MAB/UNESCO	Total of the activities		0		0	
		9.1.1	Activities, events to enhance cooperation with MAB/UNESCO	0	0	0	LB-BR MB
9.2	Cooperation with the biosphere reserve network in the world	Total of the activities		0		0	
		9.2.1					
9.3	International Cooperation in LB-BR	Total of the activities		0		0	
		9.3.1	Technical cooperation in survey and conservation of fern species	0	0	0	BNBNP
		9.3.2	Supporting building of botanical garden in Bidoup - Nui Ba NP	0	0	01 CB	BNBNP
		9.3.3	Cooperating to conserve Rhododendron, Camellia, wild orchids and yew	0	0	Survey the distribution of Camellia	BNBNP
		9.3.4	Cooperating in biodiversity monitoring	0	0	02 surveys	BNBNP
		9.3.5	Cooperating in sharing information on climate change research through the forest plants' growth ring	0	0	One meeting talk	BNBNP
TOTAL BUDGET				199.602,8	42,7	85.291,4	

ANNEX 2. SUMMARY RESULTS OF AAP 2019 IMPLEMENTATION IN LANG BIANG WORLD BIOSPHERE RESERVE (JAN-DEC 2019)

No.	Management Plan	2019 Activities	2019 budget (million dong)	Estimated implementation rate in 2019 (%)	Estimated budget used in 2019 (million dong)	Implementors
1	Natural Resource Conservation	Total of the program	182.150,6	91,7	166.948,8	
1.1	Protect forest resources	Total of the activities	161.382,6		156.705,6	
		<i>1.1.1</i> PFES for 166.955ha at 15 government forest owners, 32 companies renting forestry land and communities at three districts including Dam Rong, Lam Ha, Duc Trong	107.118,9	100%	107.118,9	DARD
		<i>1.1.2</i> Support additional wage for forest protection force under decision No. QD 44/2016/QD-TTg by the Prime Minister.	1.802,0	100%	1.802,0	BNBNP
		<i>1.1.3</i> Afforestation, planting dispersal trees, landscaping trees in tourist sites that pay forest ecological service fee	16.038,1	80%	12.830,0	DARD
		<i>1.1.4</i> The project of conserve and develop landscaping forest in the suburban of Dalat City	2.252,6	100%	2.252,6	Dalat CPC
		<i>1.1.5</i> Support afforestation, planting dispersal and forestry trees on encroached land	1.980	100%	1.980,0	Dalat CPC
		<i>1.1.6</i> Support additional wage and fuel for ranger stations, forest protection stations within deforestation areas	1.207	100%	1.207,0	DARD

		1.1.7	Forest plantation and caring after clearance under public investment plan of 2019 (18,49ha)	1.500	95%	1.425,0	DARD
		1.1.8	Forest plantation and caring on annual basis (138,69ha)	11.358	95%	10.790,1	DARD
		1.1.9	Planting dispersal trees under the project no. 2309/QD-UBND dated 25/10/2016	1.660	90%	1.494,0	DARD
		1.1.10	Enhance the effectiveness of forest protection through social economic development in the buffer zone of special used forests under decision No. 24/2012/QD-TTg	1.800	100%	1.800,0	BNBNP
		1.1.11	Patrol, raise and train patrolling dogs to protect forest and prevent re-encroachment	180	100%	180	BNBNP
		1.1.12	Supporting to develop the mechanism, to enhance the PFES payment capacity	6.600	90%	5.940,0	ODA - Vietnam Forests and Deltas Program
		1.1.13	Support activities of sustainable natural resource management	7.886,0	100%	7.886,0	ODA - SNRM project, component 3
1.2	Forest fire protection	Total of the activities		16.898,0		9.433,2	
		1.2.1	Forest fire protection in the dry season of 2018-2019 at forest owners and ranger stations within LB-BR	9.198	90%	8.278,2	DARD. BNBNP 1.017 million (100% completed)
		1.2.2	Enhance capacity of forest protection	7.700	15%	1.155,0	Forest protection division – Sustainable forestry development – State fund
1.3	Planning for conservation and sustainable	Total of the activities		0		0	

	<i>development of LB-BR</i>						
			Make a master plan for conservation and sustainable development of LB-BR	0	0	0	LB-BR MB
1.4	<i>Biodiversity Conservation</i>	<i>Total of the activities</i>		3.600,0		540,0	
		<i>1.4.1</i>	Finalize database, formulate a report of biodiversity status at provincial level and at conserve areas	Move to 2020	0	0	DONRE
		<i>1.4.2</i>	Survey and develop backgrounds of Don Duong conserved area	Move to 2020	0	0	DONRE
		<i>1.4.3</i>	Survey and evaluate wild animal breeding sites	1.250	15%	187,5	DARD (waiting for PPC's approval). State fund
		<i>1.4.4</i>	Conserving and developing valuable and endangered indigenous conifers species	1.600	15%	240	DARD (waiting for PPC's approval). State fund
		<i>1.4.5</i>	Survey the distribution of orchids species under near threatened IA group	750	15%	112,5	DARD (waiting for PPC's approval). State fund
1.5	<i>Establish a botanical, zoological garden</i>	<i>Total of the activities</i>		270		270	
		<i>1.5.1</i>	Take care the botanical garden and collect rare plants	270	100%	270	BNBNP
1.6	<i>Develop collaborative management (CM) model</i>	<i>Total of the activities</i>		0		0	
		<i>1.6.1</i>	CMA	Completed	0	0	ODA - SNRM project, component 3
2	Cultural Value Conservation	Total of the program		5.950,0	100,0	5.950,0	

2.1	<i>Propose a mechanism to combine nature and culture conservation</i>	<i>Total of the activities</i>		0		0	
2.2	<i>Conserve indigenous knowledge and traditional festivals</i>	<i>Total of the activities</i>		5.000		5.000,0	
		2.2.1	Flower festival 2019	5.000,0	100%	5.000,0	Dalat CPC
2.3	<i>Conserve gong culture</i>	<i>Total of the activities</i>		650,0		650,0	
		2.3.1	Project on conservation and development of the Central Highlands Gong Culture Cultural Space in Lam Dong province up to 2020	500	100%	500	DOCST
		2.3.2	Open gong training class	150	100%	150	Dam Rong DPC
		2.3.3	Gong festival	No budget	0	0	Lam Ha DPC
2.4	<i>Restore traditional handicraft</i>	<i>Total of the activities</i>		300		300,0	
		2.4.1	Project on conserving and promoting the cultural identity of indigenous people, restoring and developing traditional handicraft villages	300	100%	300,0	DOCST
		2.4.2	Maintaining activities at traditional weaving village in Dam Pao village, Da Don commune	No budget	0	0,0	Lam Ha DPC
		2.4.3	Restoring weaving village in Da Ra Hoa village, K'Long Hiep An commune	No budget	0	0,0	Duc Trong DPC
2.5	<i>Open Central Highland Nature Museum</i>	<i>Total of the activities</i>		0		0	

		2.5.1	Opening the Central Highland Culture - Nature Museum	Yet implement	0	0	DOST
3	Support in Environmentally Friendly Economic Development	Total of the program		12.081,5	74,1	8.951,3	
3.1	Formulate and develop LB-BR brand name	Total of the activities		0		0	
		3.2.1	Registration of LB-BR trade mark certificate	Completed	0	0	BNBNP (NOIP issued certificate)
3.2	Promotion of public-private partnership in LB-BR	Total of the activities		7.500,0		6.375,0	
		3.3.1	Coffee-agro-forestry project and forest quality improvement in Lam Dong province. Donor: BMU	7.500,0	85%	6.375,0	DARD. ODA
3.3	Green growth, ecological village/ urban area	Total of the activities		2.300,0		1.250,0	
		3.4.1	Project on pilot model of a green urban village in Xuan Tho commune, Da Lat city	2.100	50%	1.050,0	DONRE
		3.4.2	Support to develop rice production in Ta Nung commune	200	100%	200	Dalat CPC
3.4	Development of some sustainable livelihood models	Total of the activities		2.281,5		1.326,3	
		3.5.1	Planting macadamia on the encroached land	No implement	0	0	Duc Trong DPC
		3.5.2	Cowshed improvements (using bio-bed)	300	85%	255,0	Lac Duong DPC
		3.5.3	Jointly producing and consuming	1.051	80%	840,8	Lac Duong DPC

			artichoke				
		3.5.4	Jointly producing and consuming coffee	100	0	0	Lac Duong DPC
		3.5.5	Developing a model of transforming perennial crops with technology transfer training (for 10 households in the watershed of Dan Kia lake)	30,5	100%	30,5	Lac Duong DPC
		3.5.6	Mushroom cultivation model	800	25%	200	Lac Duong DPC
		3.5.7	Continuing to expand models of mushroom cultivation and cowshed improvement	N/A	0	0	ODA budget
4	Responsible Tourism Development	Total of the program		4.486,8	81,1	3.641,0	
4.1	Development of tourism promotion strategies	Total of the activities		2.714,0		2.668,2	
		4.1.1	Surveying, collecting publication information for tourism promotion	30	100%	30	TIPC
		4.1.2	Publicizing and promoting tourism images and products of Da Lat - Lam Dong	654	93%	608,2	TIPC
		4.1.3	Publishing “Da Lat - Miraculous crystallization from good soil” brand promotion publication	150	100%	150	TIPC
		4.1.4	Posters for events of the Province in 2019	380	100%	380	TIPC
		4.1.5	Promoting tourism activities at trade fairs, introducing Vietnamese tourism abroad	270	100%	270	TIPC
		4.1.6	Coordinating to promote Lam Dong Tourism on flights and carriers	1.000,0	100%	1.000,0	Dalat CPC
		4.1.7	Joint programs for tourism development cooperation with localities	130	100%	130,0	DOCST

		4.1.8	Welcoming international farmtrip, study tour delegations to Lam Dong for tourism survey	100,0	100%	100,0	DOCST
4.2	Development of agricultural tourism models	Total of the activities		272,8		272,8	
		4.2.1	Appraising agricultural tourism models in the province	37,8	100%	37,8	DOCST
		4.2.2	Supporting development of agricultural tourism models	95,0	100%	95,0	DOCST
		4.2.3	Learning experience of community-based tourism in connection with agriculture in Quang Nam	140	100%	140	DOCST
		4.2.4	Building the welcoming gate to agro tours	No implement	0%	0	Lam Ha DPC
4.3	Development of community tourism models	Total of the activities		1.500,0		700,0	
		4.3.1	Enhancing Central Highlands gong performance skills, investing in gong teams of Da Ra Hoa village and Klong village (Hiep An commune) and use the teams to promote community-based tourism	No implement	0	0	Duc Trong DPC
		4.3.2	Maintain community-based tourism model in BNBPN	500	100%	500	BNBNP
		4.3.3	Support to build community tourism model	No implement	0	0	Lam Ha DPC
		4.3.4	Traditional village of ethnic people in Dung K'Si village, Da Chais commune and new residential area in Da Nhim	1.000	20%	200	Lac Duong DPC

			commune				
5	Environmental Pollution Reduction	Total of the program		55.557,0	93,2	51.776,6	
5.1	Monitoring and evaluation of environmental quality	Total of the activities		8.009,0		5.384,2	
		5.1.1	Provincial environmental composition monitoring program	2.000	100%	2.000,0	DONRE
		5.1.2	Building and managing the national natural resource monitoring database	1.854	100%	1854	DONRE
		5.1.3	District-level environmental composition monitoring program	200	100%	200	Lac Duong DPC
		5.1.4	Oil spill contingency plan	1.845	100%	1.845,0	Dalat CPC
		5.1.5	Action plan for climate change responses in the 2021-2030 period with a vision to 2050 of Lam Dong province	400	100%	400	DONRE
		5.1.6	Local weather evaluation	180	100%	180	DONRE
		5.1.7	Responding incidents, reducing environment pollution	900	77,8%	700,2	DONRE
		5.1.8	Develop and update Action Plan to cope with climate change in the 2021-2030 period, with a vision to 2050 in Lam Dong province	630	100%	630	DONRE
5.2	Waste management (solid, waste water)	Total of the activities		47.548,0		46.392,4	
		5.2.1	Supporting to thoroughly solve severely polluting facilities	Move to 2020	0	0	DONRE
		5.2.2	Waste water collection and treatment system	12.400	100%	12.400,0	Dalat CPC
		5.2.3	Collection and transportation of waste in Dalat city	19.112	95%	18.156,4	Dalat CPC

		5.2.4	Waste treatment in Dalat City	12.600	100%	12.600,0	Dalat CPC
		5.2.5	Collecting, transporting and treating pesticide packages	2.000	90%	1.800,0	Dalat CPC
		5.2.6	Movement on combating plastic waste	600	100%	600	DONRE
		5.2.7	Collecting, transporting and treating pesticide packages	2.000	100%	200	DONRE
		5.2.8	Reducing plastic waste	200	100%	200	DONRE
		5.2.9	Collecting, transporting and treating pesticide packages at district level	286	100%	286	Lam Ha DPC
		5.2.10	Support tools for waste collection in communes and towns	150	100%	150	Lam Ha DPC
5.3	Classification of domestic waste at source	Total of the activities		0		0	
		5.3.1	Guideline on classifying waste at origins	0	0	0	DONRE
5.4	Waste management model (eco-toilets, biogas, etc.)	Total of the activities		0		0	
		5.4.1	Compost from coffee bean shells, cow manure, and rice husk	0	0	0	BNBNP
		5.4.2	Model for treating bad smell from cattle raising facilities around Lien Khuong airport	No implement	0	0	Duc Trong DPC
6	Environmental Education and Communication	Total of the program		1.270	91,3	1.160,0	
6.1	Development of a communication strategy on biosphere reserve values	Total of the activities		0		0	

		6.1.1					
6.2	Building and operation of the website and social network of the biosphere reserve	Total of the activities		0		0	
		6.2.1	Operating the website of LB-BR	Completed	0	0	LB-BR MB
6.3	Environmental education	Total of the activities		1.270		1.160,0	
		6.3.1	Communication, education and community awareness raising on responding to climate change, environmental protection and biodiversity conservation	700	100,0%	700	DONRE
		6.3.2	Propaganda on biodiversity conservation and environmental protection from the district's public environmental funding	200	70%	140	Duc Trong DPC
		6.3.3	Coordinate religious associations to participate in environmental protection, respond to climate change	100	50%	50	DONRE
		6.3.4	Environmental education program on forest protection management	270,0	100%	270	BNBNP
7	Scientific Research	Total of the program		6.372,9	97,8	6.231,9	
7.1	Development of scientific research topics	Total of the activities		5.472,9		5.331,9	
		7.1.1	Researching to select and create anti-phytophthora, heat-resistant, high yielding and high quality potato varieties which can be cultivated all year round in Da Lat and its vicinity	228	85%	193,8	DOST

7.1.2	Assessing the growth of Caribbean pine trial afforestation models in the ecological areas of Lam Dong province	213,9	100%	213,9	DOST
7.1.3	Experimenting some special temperate fruit varieties (peach, plum) domestically imported in Da Lat, Lac Duong, Lam Dong province	308,3	100%	308,3	DOST
7.1.4	Assessing disaster prevention work and proposing solutions to improve efficiency in Lam Dong province	433,8	80%	347,0	DOST
7.1.5	Researching geological events: cracks, landslide, and proposing measures to warn, prevent and overcome such events in Da Lat city, Lam Dong province	724,5	100%	724,5	DOST
7.1.6	Researching and balancing water resource and proposing solutions to use properly water resource in Lam Dong province	691,4	100,0%	691,4	DOST
7.1.7	Assessing the status of vegetable and flower production land degradation in Da Lat City and its vicinity	700	100%	700	DOST
7.1.8	Thematic assessment on climatic conditions in Lam Dong province	200	90%	180	DONRE
7.1.9	Research on sharing benefits and responsibilities of stakeholders in biodiversity conservation in Lam Dong	261	100%	261	DOST
7.1.10	Solutions to promote sport activities among citizens in Lam Dong province	401	100%	401	DOST
7.1.11	Project on conserving and developing Dalat Style	575	100%	575	Dalat CPC
7.1.12	Formulating a proposal to make a barrier to protect water source	300	100%	300	DONRE

		7.1.1 3	Researching the breeding and cultivation of <i>Sarcandra glabra</i> to be used as medicinal plants in Lam Dong	436	100%	436	BNBNP
7.2	Collaboration for the implementation of research	Total of the activities		0		0	
		7.2.1					
7.3	Application for S&T transfer	Total of the activities		900,0		900,0	
		7.3.1	Project on applying advanced S&T to build Magic S reproduction and cultivation model in buffer zone of Bidoup - Nui Ba National Park	900,0	100%	900	BNBNP
8	Monitoring & Evaluation	Total of the program		412,0	0	412,0	
8.1	Monitoring of the implementation of the management plan for the LB-BR	Total of the activities		150,0		150,0	
		8.1.1	Monitoring and evaluating AAP 2019	150,0	100%	150,0	Under SNRM project's activities
8.2	Biodiversity monitoring	Total of the activities		262,0		262,0	
		8.2.1	Monitoring biodiversity on trails and transects established in 2018	262	100%	262	Under SNRM project's activities
8.3	Developing 5-year mid-term Investment Plan for LB-BR	Total of the activities		0		0	
		8.3.1	Developing the 5-year mid-term Investment Plan for LB-BR	0	0	0	LB-BR MB
8.4	Plan for expanding the	Total of the activities		0		0	

	BR						
		8.4.1					
9	International Cooperation		Total of the program	1.000,0	0	1.000,0	
9.1	Cooperation with MAB/UNESCO		Total of the activities	0		0	
		9.1.1	Activities, events to enhance cooperation with MAB/UNESCO	0	0	0	LB-BR MB
9.2	Cooperation with the biosphere reserve network in the world		Total of the activities	0		0	
		9.2.1					
9.3	International Cooperation in LB-BR		Total of the activities	1.000,0		1.000,0	
		9.3.1	Technical cooperation in survey and conservation of fern species	Technical support	100%	01 meeting talk in BNBNP	BNBNP
		9.3.2	Supporting building of botanical garden in Bidoup - Nui Ba NP	Technical support	100%	01 staff received training in Singapore	BNBNP
		9.3.3	Cooperating to conserve Rhododendron, Camellia, wild orchids and yew	Technical support	50%	Survey the distribution of Camellia	BNBNP
		9.3.4	Cooperating in biodiversity monitoring	1.000,0	100%	1.000,0	BNBNP
	TOTAL BUDGET			269.280,8	91,4	246.071,7	