

BPN: ANNUAL REPORT 2016





Her Majesty Gyalyum Tshering Pem Wangchuck, Co-chair of Bhutan Foundation, Visit HEROES Project Site: Jakar Higher Secondary School, Bumthang

Partners and Supporters



**KARUNA
FOUNDATION**
COMPASSION THROUGH ACTION



**Bhutan
FOUNDATION**

1 Focal Teacher Workshop

Duration: 3 days

No of participants: 24

Total Expences: USD 8103.30



DSA & TA

Meals

Rooms

Fuel

Expences

5620.86

1927.53

404.38

150.84

USD

Workshop Resolution

Outcome 1: Agreed to provide alternative options for schools with slow internet connectivity (Bjishong CS, Nobding LSS, Tangmachu CS and Yurung CS) identified

Outcome 2: Agreed to fix malfunctioning of weather stations (Jomotsangkha MSS, Tangmachu CS, Phuntsholing HS, Sakteng LSS).

Outcome 3: Agreed to conduct phenology talk and presentation by UWICE for students at the beginning of the year.

Outcome 4: Agreed to explore incentive for schools based on their performance.

2 | Shortterm training

No of training provided: 4

No of staff trained: 4

Total Expences: USD 22,454.40



Drone Training



Data Analysis



Data Management



Film Workshop

Expences

7883.84

6593.60

5472.89

2667.00

1151.74

USD

Output

UWICE Map, Chamkhar Town Map, Bhuddha Point Map Generated.

Generated yearly and monthly average climate data using R Software.

Data Management System Software (CKAN) Configured in UWICE Server.

Phenology observation activities documented for one school.

Plans

Map Nikachu river and its tributaries, map UWICE research preserve.

Yearly co-relation analysis will be carried out for phenology and climate data (tem and precp). Teaching R to staff.

Central Data Repository will be developed & hosted at UWICE Server. Mobile data collection appa.

Observation activities documentation for few more schools.

3 | Equipment and Network

No of equipment replaced: No of new equipment purchased: Total Expences:USD 23,096.29



Expences	950.00	8821.73	9120.00	4227.56
	USD			

- Details of equipment
- 1) Internet Services: Broadband-6 schools, Data card-4 schools, Leased lines-6 schools, Airmux-1 school.
 - 2) Weather Sations: Replacement cost for damaged station:sensors,station,batteries,drone,etc
 - 3) Server usage:Institute File Management System hosted in server.DoFPS data management, phenology mobile apps will be hosted in the server.
 - 4)Computers: Four laptops for project staff were purchased and issued to: Director, IT, Library Asst, etc.

4 Curriculum

No of schools implementing phenology curriculum: 114

No of students taking up phenology curriculum: 2011

Total Expeneces: USD 2000



Expences

Class X Curriculum (2016)



Class XI Curriculum (2017)



USD

Class XII Curriculum (2018)



Curriculum Content

Expected Skills:

Conceptulize: phenology as indicator of climate change

Basic observation skills: seasonal changes

Expected Skills:

Advance phenology observation and recording skills

Analysis, evaluation and interpretation skills

Content Development Stage

Note: The expences for cirriculum includes the travelling and daily subsistence allowance for UWICE staff. The content development, designing and printing cost is covered by Ministry of Education.

5 | Monitoring and Evaluation

No of schools evaluated:17

No of students evaluated: 340

Total Expeneces: USD 4,170.00



1538.46

1450.00

1181.00

USD

Monitoring Output Expeneces



Note: Two schools that ranked first and second were awarded equipment to facilitate phenology observation activities in their schools; Gyelpozhing HSS and Phuntsholing HSS

6 | Budget, Expences and Balance

Total Budget:USD 140,000.00

Budget used:USD 59823.00

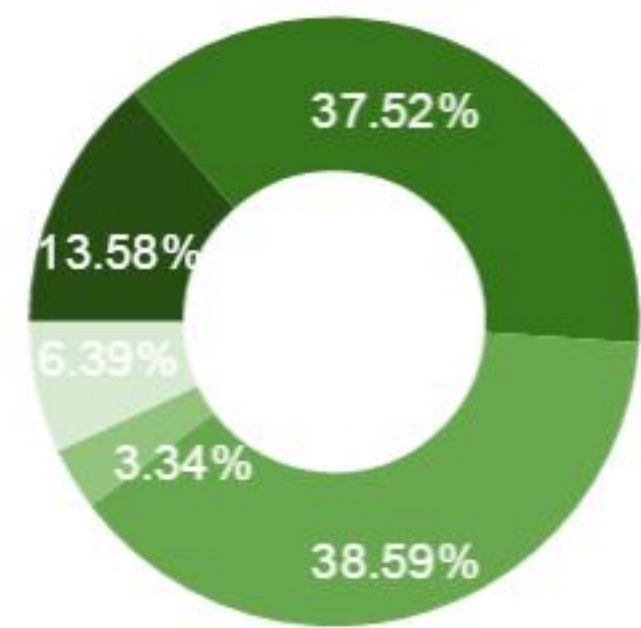
Balance:USD 80,150.00



USD

Expences

Focal teacher workshop	: 8103.00
Shorterm training	: 22454.00
Equipment and network	: 23096.00
Curriculum development	: 2000.00
Monitoring and evaluation	: 4170.00



Note: Budget for longterm training is spilled over from 2015 budget. The actual amount secured for 2016 was USD 100,000.00.

7 Budget balance and Remaining activities

Total Budget:USD 142,050.00

Budget used:USD 59850.00

Balance:USD 80,150.00



Balance	USD		
	Target	Budget	Time frame
40000.00	Mr.Sangay Pelzang	40,000.00	June,2017
31954.00	Schools at the edge	28,000.00	By June 2017
1943.00	To be determined	5893.00	To be determined
3330.00	Four schools	7330.00	March,2017
4000.00	Annual report	1000.00	Dec,2016
1000.00			

Note: Budget for fiscal year 2016 was released to UWICE in May,2016. The implementation of activities were planned as per fiscal year period which spans from July, 2016-June,2017. This resulted in delay in implementation of project activities by six months.

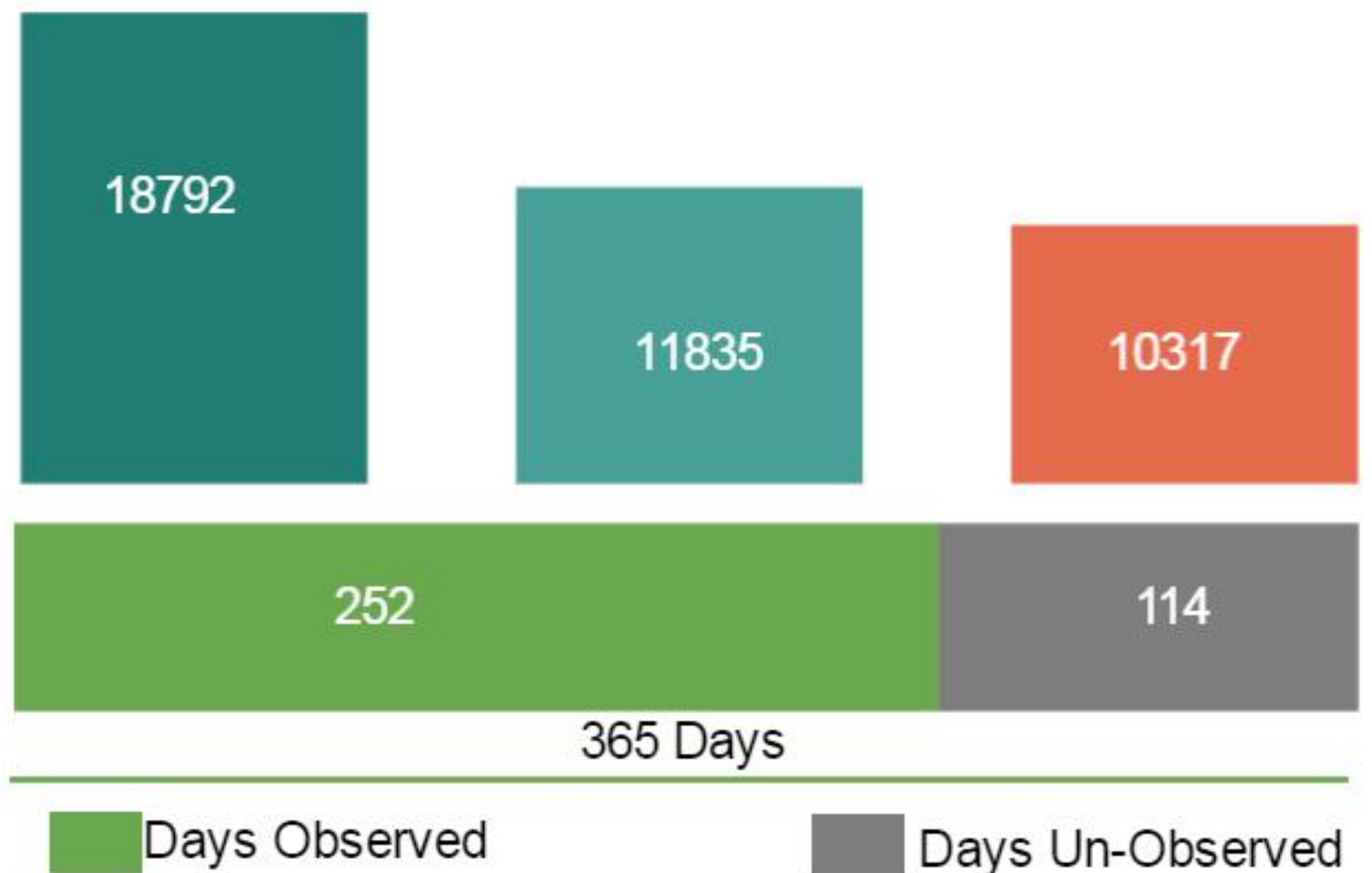
8 | Data Generation

Climate Data

Plant Data Entries: 42945



- 1) Logs data every 15 min for 365 days
- 2) Data shared with national climate center (Dept. Hydromet)



Data Generation

Climate Data

Plant Data Entries: 42945



Ugyen Wangchuck Institute for Conservation and Environment : Lamal Goempa, Bumthang

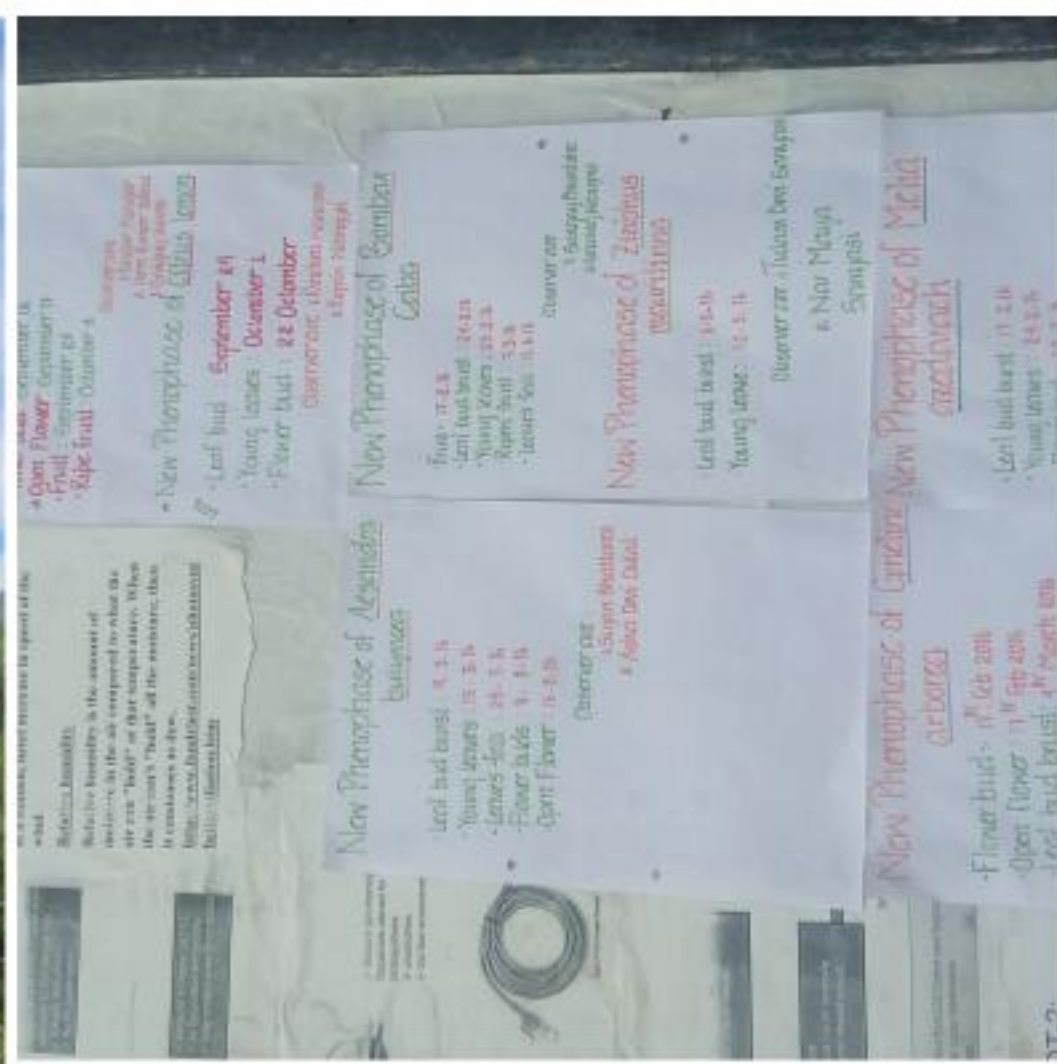
Plant Watch | Animal Watch | Climate Watch

School Observation Report (2015)

Search:

Show 11 entries

S.No.	School	Focal Teacher	Qty	Monitor	Tree	Shrub	Herb	Costly	Total
1	Bayling Central School	Phub Zam	1	22	1454	872	585	0	2912
2	Bjehong Central School	Kings	0	0	1354	789	529	0	2672
3	Ovithang Primary School	Deji Khanda	0	0	508	1018	762	254	2540
4	Galing Primary School	Dzika Tshering	0	0	1400	584	584	202	2870
5	Gesarling Central School	Ten Bahadur Rana	0	0	1142	829	187	0	1968
6	Ovathang Central School	Tashi Dena	3	0	1160	870	578	287	2895
7	Jakar Higher Secondary School	Mohan Chetti	0	0	528	1068	831	274	2723
8	Jamthangla Middle Secondary School	Yeshi Wangdi	1	0	1201	730	518	0	2529
9	Khasidrapchu Middle Secondary School	Rupali Sharma	0	0	753	484	1037	445	2720
10	Mendzhang Central School	Pren Kurar Ghaley	0	24	1103	538	753	1	2433



Weather Information Board

	Today	Past	Day
Relative Humidity :-	54.20 %	89.20	
Dew Point :-	20.57°C	22.69	
Wind Speed :-	0.0 m/s	0.3 M/s	
Wind Direction :-	NW 307°	NNE 21	
Photosynthesis :-	1,276 Uε	309 Uε	
Temperature :-	30.87°C	24.56°C	



