

Strategies to Explore, Document, Validate and Check Traditional Knowledge Erosion on Wild edibles: Learning and Lessons from Adi Tribe of Arunachal Pradesh, India.

Rakesh Bhardwaj

National Bureau of Plant Genetic Resources,
PUSA, New Delhi, India.

with active participation and guidance from
Anamika Singh, Temin Payum, Ranjay Singh,
Lobsang Wangchu, AK Rai, A.K. Das & Adi People



North East India - mega
biodiversity centre

Ecological & Bio-
cultural diversity

Terrain is landlocked

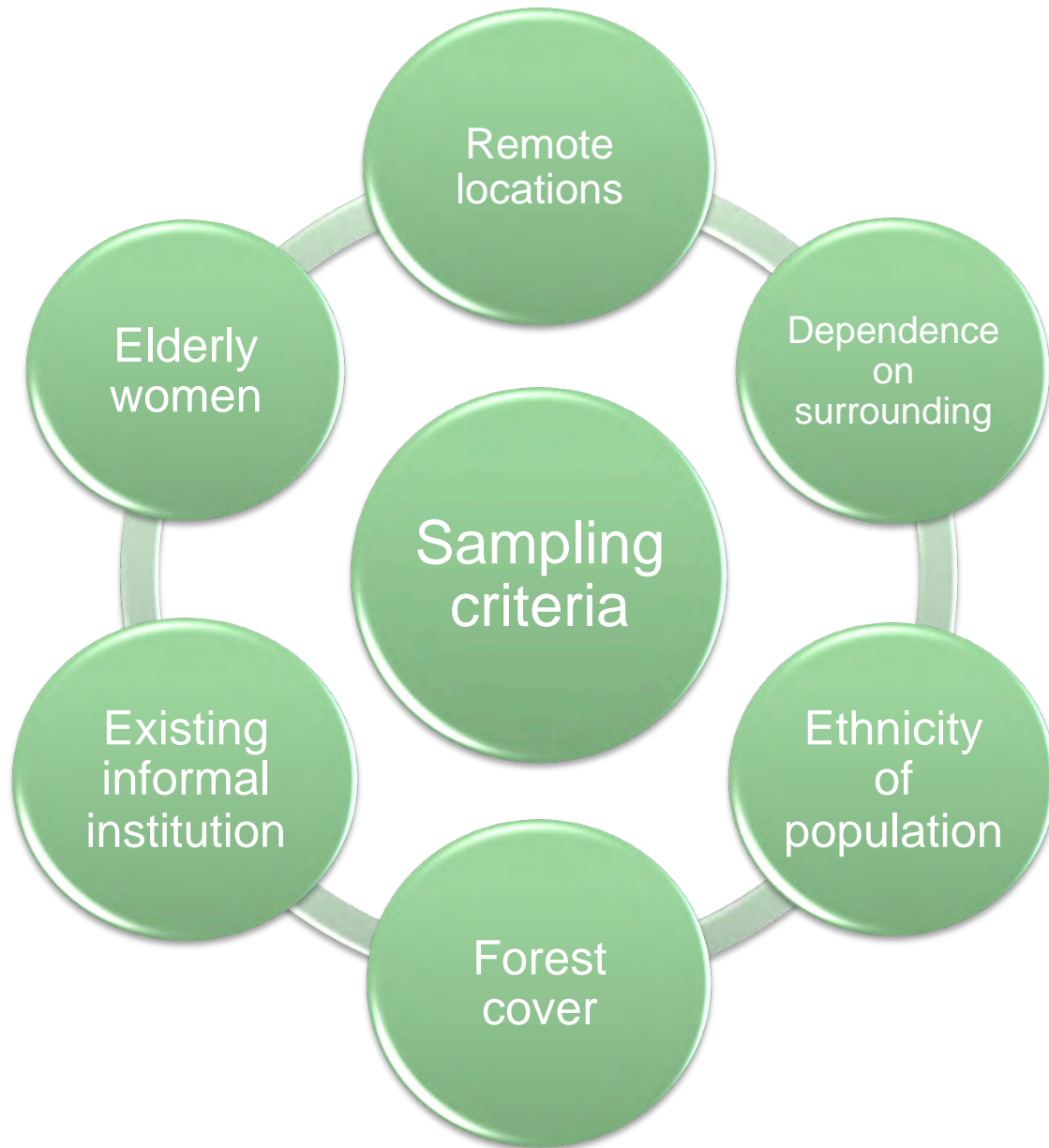
**Dependence on
surroundings**

**Collective decision
making**

Community rights

**Traditional
institutions**

**Biodiversity
conservation**





View of remote Sibuk Village







Meat drying: Kitchen fire place has three shelves called *rapmeng* (lower shelf), *perap* (middle shelf) and *borang* (top shelf). In the first layer fish, meat and fresh plants are kept and dried for 3-4 days after that, they are transferred to *perap* for about 2-3 days. Almost dried foods are kept at *borang*



Prior Informed Consent (PIC) on Indigenous Traditional Knowledge

- A. Can NIF share your address with those interested in your traditional knowledge?
N.I.F. nok aku kennam legape nok dungko dakho add kenlayen ?
- B. Can NIF display/publish your traditional knowledge on the Internet/*in Honey Bee* magazine or any other media?
N.I.F. nok aku kennam-panam legang dem “Honey Bee” kakot magazine lo delokke (internet) T.V. dekelo moteng among lo kemolayedi ?
- C. Can NIF share your traditional knowledge under the following condition/situation (s)?
Nok lerilok kenbom nam dem N.I.F. me kape kisape kenmolidun ?
 - (a) Partial disclosure/summary Anyope
 - (b) Full disclosure Takam em (doiying kisape) Only on commercial terms (if the interested party is willing to pay for it) Pettom murko paisa lega imilo
 - (c) At no cost for individual use, but on commercial basis for larger use
Agi atel ipisinam lega murkong lagimang. Idola business pe imilo lagidung.
 - (d) After further research on it
Maa hem ati him airupe kenyin rongam iyeku
- D. Can NIF mediate on your behalf to pursue the following?
N.I.F. nok kennam dem ami em lubilayadi ?
 - (i) Developing business plan by third party/students
Students (porina kokiding) demangkom, amiabit nok kennam delok business pe ilenlidung imilo.
 - (ii) Product development Eku serang monam legang imilo.
 - (iii) Intellectual Property Right protection
Agi kennam dem duyardope delo ami em pyomomadope inam lega ?

Food Frequency and food knowledge questionnaire

Frequency Codes – Daily (1), Twice/Thrice (2), Weekly (3), Fortnightly (4), Monthly (5), Occasionally (6)

Consumption Quantity Codes – Staple (st), Supplement (sup), Snacks (sn), Salad (sd)

Processing codes – Boil (B), Fry (F), Roast (R), Smoking (S), Fermenting (Fm), Grilling (G), Wine (W)

::

Food items	Freq. Code	Cons. Qty Code	Proce. Code	Season of availability	Remarks
------------	------------	----------------	-------------	------------------------	---------

1. Foods used during special occasions....
2. Management of common child hood illness
3. Traditional foods avoided/preferred during specific illness or conditions?
4. Foods that give energy?
5. Foods that help in better growth?
6. Foods which are good for the eyes?
7. Foods that enrich or strengthen the blood?
8. Foods which were available earlier in 1970s...
9. Food preservation methods

Recipe contest at Aiying & Pangin village



Interview of ITK holders



Yazing darang,
Sole village

GB, Sole vilage



Yakyam dupak,
Dengki, village

Yapang Gamnoh,
Rayang village





Focused Group Discussion –

- On availability of different wild edibles, location and distance
- On medicinal value of different plants
- On processing & preservation methods

Kebang meeting in progress –

- Forest land clearing for jhum cultivation
- Extent of use of different forest resources and rotation plan
- Disputes related to ownership and infringement



Biodiversity contest at D. Ering School , Pasighat







 **National Innovation Foundation**
In Support of Grassroots Innovations
Recognizing, Encouraging, and Supporting

For the year 2014-15, the National Innovation Foundation has awarded the following prizes to the winners of the National Innovation Foundation Competition, 2014-15.

Sl. No.	Name of the Winner	Prize
1	Mr. [Name]	1st Prize
2	Mr. [Name]	2nd Prize
3	Mr. [Name]	3rd Prize
4	Mr. [Name]	4th Prize
5	Mr. [Name]	5th Prize
6	Mr. [Name]	6th Prize
7	Mr. [Name]	7th Prize
8	Mr. [Name]	8th Prize
9	Mr. [Name]	9th Prize
10	Mr. [Name]	10th Prize

Sl. No.	Name of the Plant	Part of the Plant	Use	Source
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

Sl. No.	Name of the Plant	Part of the Plant	Use	Source
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

Sl. No.	Name of the Plant	Part of the Plant	Use	Source
1	Tasing (Cecropia)	Forest	Food Purposed	Mother
2	Takang (Sour in sea)	Forest	Food Purposed	Mother
3	Balang (Jaca Tree)	Cultivated in field	Food Purposed, and medicinal in many ways	Mother
4	Tarap (Sour in sea)	Forest	Food Purposed	Father
5	Empang (Candoo tree)	Cultivated in field	Use for medicines and food Purposed	Mother
6	Mia (Purina)	Forest	Food Purposed	Mother
7	Opa	Forest	Food and medicines	Mother
8	Matang	Forest	Food Purposed	Mother
9	Bangko	Forest	Food Purposed	Mother
10	B. Pakom	Forest	Use for medicines	My Aunt
11	Tapar	Forest	Food Purposed	My Friends
12	Neom	Cultivated in field	Medicine for malaria	My Mother
13	Namding Seeds	Cultivated in field	Food Purposed	Mother
14	Siroh berries	Forest	Food Purposed	My Family
15	Tajik	Kitchen Garden	Food Purposed	Mother
16	Pethu (Lai sea)	Forest	Use for making tea, and use for food Purposed	My Aunt
17	Tapi	Forest	Use for food, juice and medicines for diabetes	Aunt
18	Teez Aup	Forest	Use as food, juice and medicine	Mother
19	Skomda (Oni soup)	Cultivated in field and kitchen garden	Use as food, juice and medicine	Mother
20	Nimbu (Limon)	Cultivated in field	Food Purposed	Mother

Sl. No.	Name of the Plant	Part of the Plant	Use	Source
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

BIO DIVERSITY COMPETITION

AVAILABILITY	USE OF PLANT	SOURCE FROM WHERE YOU LEARNED	SAMPLE	S/No.	NAME OF PLANT	PLACE OF AVAILABILITY	USE OF PLANT	SOURCE FROM WHERE YOU LEARNED	SAMPLE
Available in wet	It is use in making medicine and it is use in making curries.	Learned from Mother.		15.	BLACKBERRY (JAMUN)	Available in Pasighat and Miao.	It is use as many medicines and it is also used in Diabetic.	Learned from my Grand mother.	
Available in dry and	It is use in making medicine and making Curries.	Learned from Grandma		16.	NEEM	Available in Miao, Chandang	It is use as medicinal uses like the bark of neem is use as skin disease and typhoid use in Diabetic.	Learned from Grandpa and teachers.	
Available in Balong Pangim, Remang	It's leaf is use in eye disease and it is fruit is use to eat.	Learned from Parents		17.	PAPAYA	Available in Saporhij.	Use to eat and Gum of Papaya is use in making medicine.	Learned from village People.	
Available in Assam	It is use in medicine and also in eye disease.	Learned from Auntly		18.	GUAVA	Available in dry areas. It can be found in Pasighat.	It roots is used in diarrhoea and dysentery. It's fruit is use to eat.	Learned from my Parents and Auntly.	
Available in Pasighat Area	It is use to making curries and it is also use to eat fruits.	Learned from Uncle		19.	TULSI	Available in all over India.	Use as medicine like cough.	Learned from mother.	
Available in Pasighat Area	It is use in extracting oil.	Learned from Teachers		20.	AMLA (WOOD BERRY)	Available in Pasighat areas.	It is use in fruits and many medicines and in Amla there is Vitamin C.	Learned from Teachers and Auntly.	
Available in Assam and UTC Area (Pasighat)	It is use to making curries and it is use to eat.	Learned from Parents and friends.		21.	GINGER	Available in the chokham and, Tezu.	It is use in many medicines in cough. It is very useful.	Learned from Grandpa.	
Available in Assam and Sangeeling	The leaf is use in making tea and	Learned from Teachers and friends.		22.	PAKOM	Available in Along and Pasighat.	It is use in medicine and its leaves use in treating high blood pressure.	Learned from Father.	
Available in forest and Pasighat area	It is use as a hedge plant in fields due to its use in many diseases.	Learned from Auntly.		23.	BRYOPHYLLUM	Available in Pasighat area.	It is use in medicine.	Learned from Auntly.	
Available in Sjingkong	It is use in many diseases like it's fruit is use in juice.	Learned from friends.		24.	BETEL LEAF	Available in Pasighat area.	It is use in eye disease and also use to eat with betel nut.	Learned from Auntly.	
Available in Pasighat area.	It use to making Pickles from its fruits.	Learned from Mother.		25.	PINE-APPLE	Available in Nopid village.	It's fruit is to use to eat and making jellies.	Learned from Parents and Teachers.	
Available in Pasighat forest	It is use to making medicine and use in Diabetic.	Learned from Auntly.							
Available in Pasighat area	It is use for medicine and to cure bronchitis.	Learned from Neighbour.							
Available in Balong forest	It is use to eat and also in many medicines.	Learned from Auntly.							

NAME- MISS REEMA BORO
 CLASS- IX (Nine)
 ROLL NO- 6 (Six)
 SCHOOL- DERING SECONDARY SCHOOL PASIGHAT.

Highly important, for family nutritional security

- **Cereals and millets - Rice- boil, Rice - wine, Mirung (finger millet) – wine**
- **Legumes- French bean- boil**
- **Vegetables – Ongin (*Clerodendrum colebrookianum*), Pettu(*Brassica sp.*), kopi(*Solanum torvum*), kopir(*Solanum khasianum*), Ange (*Collocasia*), fermented bamboo shoot**
- **Fruits – Banana, Pineapple**
- **Meat – Fish**
- **Spices – Ginger and chilly**

Important, for family nutritional security

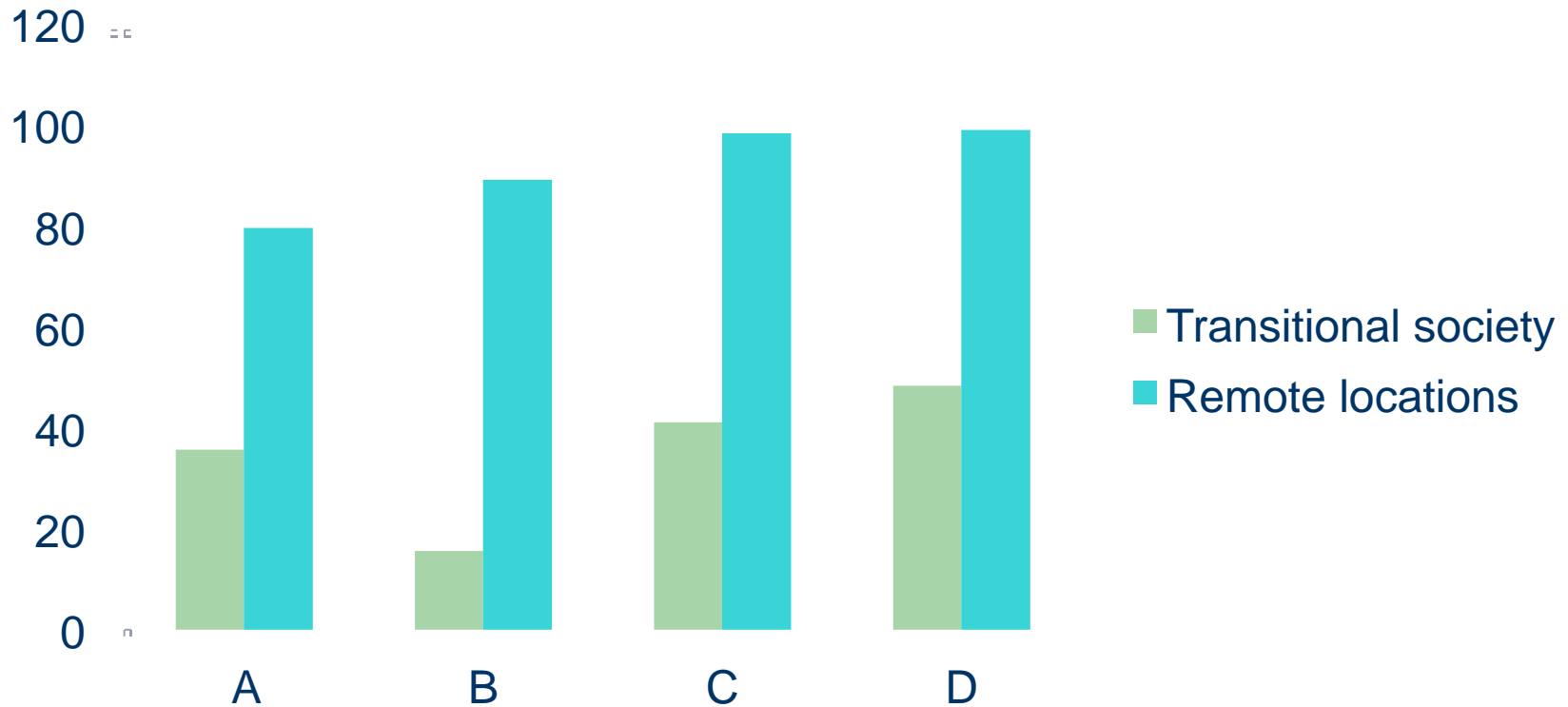
- **Cereals and millets – Merung, Angyat and Ayak – Boil, Matpe – boil & wine**
- **Legumes- Arhar, Rajma, black gram - boil**
- **Vegetables – Oyik, Gaam oying, Ogen, Colocassia, Akshap, Dhekia**
- **Fruits – Papaya, Tapil, Hilica, Silum**
- **Meat – Chicken, beef, mithun (*Bos frontalis*), forest based meat, dried fish, dried meat**
- **Spices – Onion and garlic**

Moderately important, for family nutritional security

- **Cereals and millets – Angyat (foxtail millet) and Ayak – wine, Maize - boil**
- **Legumes- Soybean- fermented, Mungbean – boil**
- **Vegetables – Onger (*Zanthoxylum rhetsa*), Marsang (*Diplazium esculentum*), Lorri (*Piper pedicellatum*), Potato, Poi (*Basella rubra*), Cucumber, Bottlegourd, Pumpkin, unripe Papaya**
- **Fruits – Pear, longan, Rambutan**
- **Meat – pork**
- **Spices – wild onion (*Allium hookeri*)**

Erosion of Indigenous Traditional Knowledge

Per cent of *Adi* tribe household following different aspects of cultural ethics associated with traditional foods



A - Sharing food with community members, B- Bartering of traditional food resources, C - Using traditional foods during marriages, local festivals and other cultural gatherings, D- Preferences for consuming traditional foods in daily diet

Name of foods	Ailments/diseases	Use level in percentage	
		Transitional Communities	Remote villages
<i>Kekir</i> (Red ginger)	After childbirth to mother for proper expulsion, maintaining menstrual cycle.	40.32	75.98
<i>Banngko</i> (<i>Solanum spirale</i>)	Controls high blood pressure and malaria	41.32	65.67
<i>Onger</i> (<i>Xanthoxylem rhetsa</i>)	To cure constipation and gal bladder's stone	60.54	95.67
<i>Ongin</i> (<i>Clerodendrum colebrookianum</i>)	Control gastritis and used in reducing the diabetes	56.67	92.34
<i>Kopi</i> (<i>Solanum viarum</i>)	To control high blood pressure	68.93	90.57
<i>Kopir</i> (<i>Solanum torvum</i>)	Used in cough probelm	29.43	68.87

P a p a y a (unripe)	Curing dysentery	30.43	34.56
M a r s h a n g (<i>S p i l a n t h u s</i> <i>acmella</i>)	Diarrhea	32.36	47.67
Eyuup	To cure smallpox	65.53	70.45
Oyik (<i>Pouzolzia</i> <i>benettiana</i>)	For eyes, improves lactation, leaves with egg massaged for faster recovery of bone fracture	50.56	78.89
H i l l i k a (<i>Terminalia</i> <i>citrina</i>)	diabetes and gas trouble	26.67	79.34
Silum/komker	Use in cough	29.35	85.34
Tapil (<i>Phoebe</i> <i>cooperians</i>)	constipation and indigestion	10.34	68.96
Ogen (<i>Gynura</i> <i>cusumbua</i>)	pain and infection of eyes	30.67	86.67

Foods attributes	Name of foods
Energy	Green leafy vegetables, <i>perok</i> , rice, <i>pettu</i> , meat, fish, egg, <i>oyik</i> , <i>osik</i> , <i>kopak</i> , pear
Better growth	Rice, mithun meat, local fish
Good for eyes	<i>Nyokung</i> , snail boiled with <i>pettu</i> , <i>oyik</i> , <i>ngobi</i> fish, beans, <i>tamir</i> tree's bark, <i>gali tatak</i> fish
enrich or strengthen the blood	Bitter gourd, chicken, fish, <i>kuchiya</i> bam (local breed of fish), <i>akshap</i> (<i>Mussenda glabra</i>) <i>takuk</i> , beans, <i>bayom</i> , <i>ange</i> , papaya
Improves digestive system	<i>Bangko</i> , <i>ongin</i> , <i>pudina</i> , gourd, papaya, pumpkin, <i>onger</i> , <i>sungkom</i>
act as laxatives	<i>Asitapa</i> mushroom, green leafy vegetables, cucumber, watermelon, jackfruit, <i>oyik</i>
blood pressure	<i>Ongin</i> , <i>kopi</i> , <i>bangko</i> , <i>baak</i>
Curing malaria	Fish liver along with gall bladder

Ailments/ disease

foods

Avoided

Preferred

Pregnancy	Monkey meat, papaya flower, <i>perik</i> , chili	<i>Pettu</i> soup, <i>perok</i> , rice, egg, <i>dal</i> ,
Lactation	Papaya flower, chilly, raw fish, pork, ginger, <i>kala-apong</i>	Unripe papaya fruit, <i>pettu</i> , chicken, fish, milk, egg, soup, <i>oyik</i>
Diarrhoea	<i>Ongin</i> , pork, raw fish, meat, chilly, jackfruit, pumpkin, chilli, <i>namsing peron</i> , maize, <i>kompi</i>	Bitter gourd, <i>ongin</i> , <i>bangko</i> , <i>ked</i> i, boiled rice, <i>kuna</i> , <i>tasing</i> , <i>chinkom</i>
Jaundice	Lemon, pumpkin, ginger, <i>dilap</i> , oil, pork, turmeric, fried food, chilly, egg	<i>Kordoi</i> , <i>tabat</i> , leafy vegetables, sugarcane, banana, tender shoots of guava
Malaria	<i>Ikung</i> , <i>eep</i> , (any sour foods), <i>ongin</i> , <i>onger</i> , <i>marsang</i> , <i>kopi</i>	Porcupine intestine, bear's gall bladder, papaya flower, boiled fish <i>mithun</i> meat, <i>sidol</i> fish
Diabetes	Brinjal, fried food, local rice	Boiled green leafy vegetables
High blood pressure	Pork, <i>onger</i> , <i>apong</i> , meat	<i>Ongin</i> , <i>bangko</i> , <i>kopi</i> , <i>oko</i>

Medicinal value believes and scientific reports

Wild plant and medicinal uses

Kalanchoe pinnata (Tuktak)
Leaves juice for treatment of stomachache, Malaria, small cuts

Paederia foetida (Epiriyong)
Leave juice, Diarrhea

Moringa oleifera (drumstick)
Leave paste, treatment of muscle pain, pull, ligament injury

Cuscuta reflexa (Kordoi)
Whole plant, treatment of Jaundice.

Ageratum conyzoides.
(Botpamon, Mahakua) Leaves paste in Cuts and wounds

Reported in scientific literature (from CAB abstract)

anti-inflammatory, Anti-tumor, anti-ulcer, **Anti-malarial** anti-leishmanial, **Analgesic, antipyretic**, Hepatoprotective, antibacterial, antifungal.

diarrhoea, rheumatism, fever, headache, asthma, eye disease and wounds anti-Helicobacter pylori rheumatic diseases, antiinflammatory hepatoprotective, helpful in menstrual problems

wound healing anti-microbial effective in limiting the development of skin **lesions anti-rheumatic anti-inflammatory** antibiotic Antimicrobial

body aches and colic, liver disorders, fevers, coughs, itches, carminative, anti-helmintic, **anti-jaundice**, anti-HIV agents

Biofungicidal, fungistatic, biocidal, Anti-inflammatory Anti-bacterial anti-nociceptive Anti-microbial, anti-spasmodic, anti-asthmatic, haemostatic and insecticidal properties



- fruit is used in making chutney
- Green leaves as boiled vegetable
- Matured fruits after drying are powdered and mixed with local coriander

Banko (*Solanum spirale*)

Medicinal value:

Green leaves in lukewarm form are used in waist pain

It is used in high blood pressure and malaria

It is used in improving digestive system

It is used in curing the diarrhea



Ongin
(*Clerodendrum colebrookianum*)



**It helps in controlling gastritis
Used in reducing the diabetes
Used in reducing the high blood
pressure
Used in curing the malaria**

**Green leaves are used as
vegetables**



Onger (*Zanthoxylum rhetsa*)

Fruits & barks are used for eco-friendly fishing and as bio-pesticides in paddy crop.

Green leaves are used as boiled vegetable

Medicinal Value

Used in stomach disorders like constipation

The green leaves of *onger* are rich in antioxidants and are used in controlling dysentery & diarrhea.

Added with pork to reduce helminthes problem



Namdung (*Perilla ocymoides*)

Green leaves as boiled vegetable

Seeds dried/fermented as chutneys

Leaves contain 3.1% protein, 0.8% fat, 4.1% carbohydrate, 1.1 % ash.

Seeds 21.5% protein, 43.4% fat, 11.3% carbohydrate, 4.4% ash with very high n-3 PUFA

Used in treatment of Asthma, colds, nausea, abdominal pain, bronchitis and constipation.



Some Interesting Processing Methods

Rice Cooked Wrapped in Ekkam Leaf in Green Bamboo (Madung System) over Direct Fire



Apong preparation, local bear from, rice or millets

Dehusking of seeds

roasting of husk to make it black

Half boiling

Half boiled seeds and charcoal are mixed together

Add one tablet of yeast (approx 20 gms) per 5.0 Kg seed and mix it

Keep it air tight

Fiter if 4-5 days during summer and 7-10 days during winter

Filtration is done through bamboo cylinder, having hole at bottom. Fermented slurry is filled, over it hot boiling water is poured, and filtrate is collected at bottom

Fermented foods

Engo ngosing

Small fish ngopi are boiled after wrapping with ekkam leaves. packed in fresh bamboo chungga (cylinder) and is made airtight. Kept on borang for 10-12 days for fermentation

Given to the weak person, lactating mother and women after child birth

Peron namsing

soybean seeds are cleaned, washed and boiled. Tightly wrapped into *ekkam* leaves kept for fermentation on Borang for 10-12 days.

Tange and pettu tuyang pettu,

Its soup is considered equivalent to cow milk. The green leaves of *brassica sp.* are boiled, wrapped in *ekkam* leaves and placed on *perap* for 5-6 days to ferment.

Eup and Ekung - Fermented Bamboo shoot

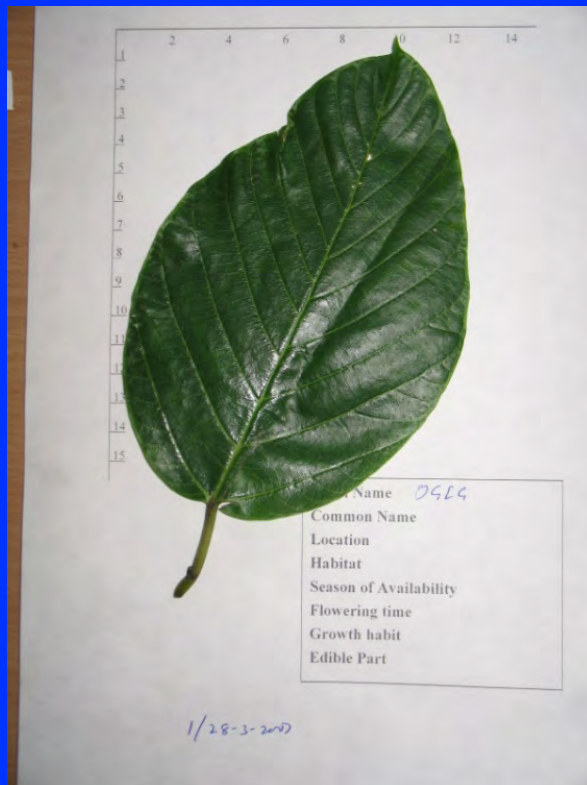
- Bamboo shoots are peeled and sliced
- Ekkam (*phyrunum pubenerve*) leaves layered at bottom of bamboo made basket
- slices are layered covered with ekkam leaves and pressed to make the basket airtight.
- The basket is left for 5-6 days in summer and 8-10 days in winters on higher branches of tree for complete fermentation.
- Degradation and leaching of taxiphylin and cyanohydrins

Some comments and proverbs

Common Adi proverb -

*“Oyik doboname reyik, reyik,
Ogen doboname regen, regen”*

Person eating *oyik* are handsome and beautiful and those eating *ogen* have good health and physique.



“Leaves of OGIG, a tree creeper are complete food”. Local people don’t carry food while going to forest and instead consume ogig leaves as raw.

“Whatever is eaten by Mithun (*Bos frontalis*) is edible for us, important is to process it to make it palatable and easily digestible”

Proximate analysis of some ethnic foods

11

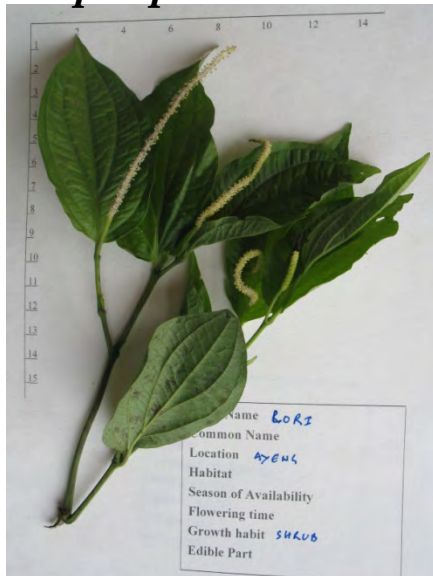
Local Name	Scientific name	% moisture	% ash	%Crude Protein	% crude fat	% Dietary fiber	Vitamin c mg/100g
Kopi	<i>Solanum torvum</i>	76.34	0.56	4.82	0.95	0.637	17.6
Kopir	<i>Solanum khasianum</i>	73.13	1.77	6.33	2.45	0.721	20.0
Onger	<i>Zanthoxylum rhetsa</i>	82.18	1.49	5.31	1.68	0.283	14.7
Pumpkin Leaves	<i>Cucurbita moschata</i>	84.01	2.35	3.99	0.98	0.352	11.7
Rori	<i>Piper pedicellatum</i>	82.18	2.74	4.14	1.13	0.557	52.0
Poi	<i>Basella rubra</i>	85.26	2.80	5.15	0.86	0.528	83.7
Dhekia	<i>Diplazium esculentum</i>	85.19	2.45	7.36	0.76	0.673	18.6
Marsang	<i>Spilanthus acmella</i>	88.13	1.86	3.26	1.19	0.496	12.1
Oyik (K, Co, Mg, Ca)	<i>Pouzolzia benettiana</i>	81.19	2.91	7.39	0.89	0.524	18.2
Ogen (K, Co)	<i>Gynura cusumbua</i>	76.87	2.93	5.57	2.93	0.532	34.6
Gaam oying (Fe, Mn, Zn, Mg)	<i>Glochidion multiloculari</i>	69.36	3.30	9.23	3.56	0.732	61.3
Ogig (Co, Mg, Ca)		83.41	3.81	5.90	1.01	0.571	12.3

Efficient use of land, water and sunlight



Herbariums

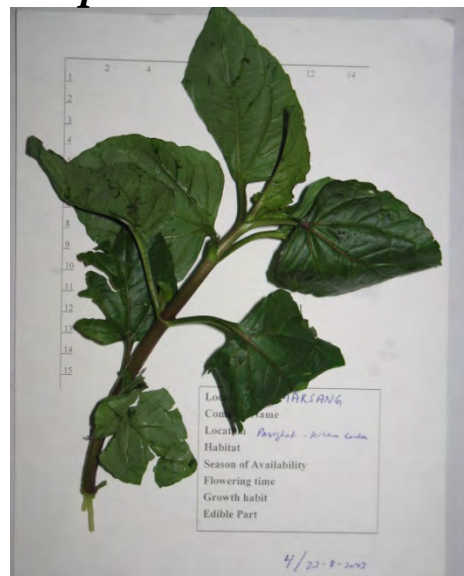
Piper pedicellatum



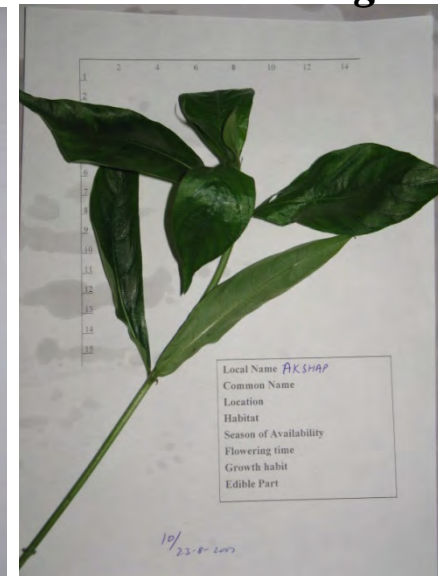
Pouzolzia benettiana



Spilanthes acmella



Mussenda roxburghii



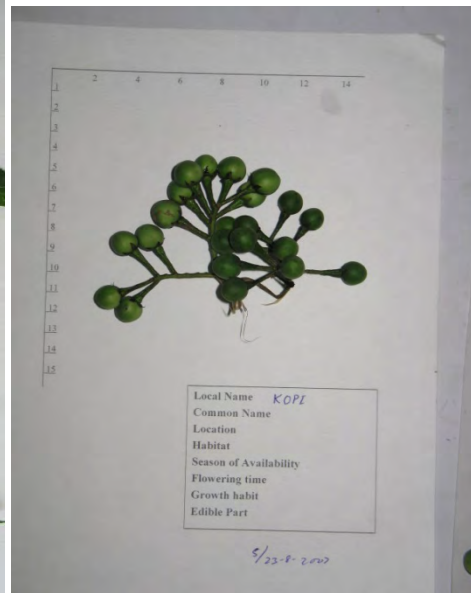
Phoebe cooperians



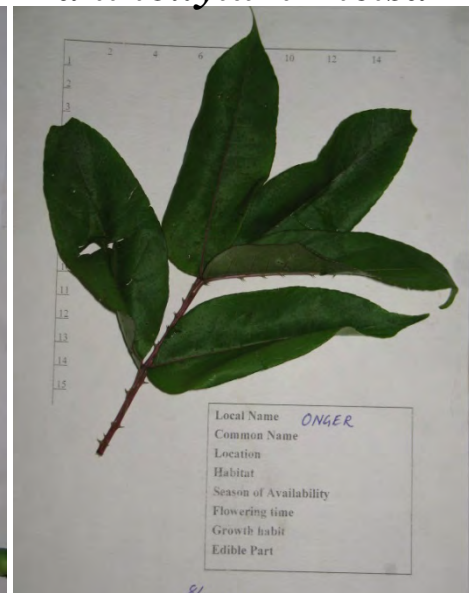
Gynura cusumbua



Solanum torvum



Zanthoxylum rhetsa



Conclusions

- Traditional communities living in remote locations in north east India, have conserved traditional knowledge but erosion is observed in transitional societies.
- There is need of documentation, conservation and promotion of traditional knowledge system for biodiversity conservation
- Multi facet approach is needed for surveying which includes questionnaire, interviews, focused group discussions, recipe contests, biodiversity contests, traditional food fares etc.
- Some of the wild edibles are more nutritious then commonly consumed vegetables.
- Distinct processing methods their impact on nutrient retention and inactivation of anti-nutritional factors is needed to be studied.
- Traditional people have fare knowledge on medicinal value of wild plants in subtle sense as proven by available scientific literature.

Welcome to Arunachal

