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# Training On Natural Resources Co- Management and Wetlands Conservation Modules

Duration 2 Days

February, 2011

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INTEGRATED PROTECTED AREA CO-MANAGEMENT IN BANGLADESH

*Submitted to:*  
USAID/Bangladesh

*Submitted by:*



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With subcontractors:  
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Module Architects, IUB/JU



Department of  
Fisheries



NISHORGO NETWORK



## Module Summary

### Training on Natural Resources Co-Management and Wetlands Conservation Module

Duration 2 Days

**Overall Goal:** The overall goal of this training is to enable the project partner's staff (DoF-Upazila Fisheries Officer, Extension Officer; FD – Assistant Conservator of Forest; DoE – Junior Officer and partner NGOs – Field officials) and Co-management group leaders to provide appropriate technical assistance to the communities and other project staff in sustainable natural resources co-management and wetlands conservation.

#### List of Topics

1. Importance of Natural Resources Co-Management and Biodiversity Conservation: Global and Local Perspective.
2. Sustainable Landscapes Co-management: Forests, Wetlands and Community
3. Classification, Types and Profiles of Forests and Wetlands in Bangladesh.
4. Understanding of Open-water Fisheries Resources and its Importance
5. Existing Status, Trends and Issues Related to Open-water Fisheries – Why Management Required
6. Introduction to Fisheries Management and Fisheries Regulations
7. Fisheries Ecology, Biodiversity and Conservation,
8. Possible Management Approaches and Models for Fisheries Co-management
9. IFM Approaches for Sustainable Productivity and Equitable Distribution of Benefits
10. Restoration of Wetland Habitats
11. Aquatic Sanctuaries



## Session 1

### Topic 1: Understanding of Open-water Fisheries Resources and its Importance

**Background:** Bangladesh is blessed with vast open water fisheries resources due to its deltaic formation and climatic condition. The resource is important for livelihood and nutrition supply of majority of the people (specially the rural poor) and has a big contribution in the national economy.

Resource managers, associated partners and other stakeholders must be aware about the extent of the resource, and its importance to the livelihood of the people, for example as a nutrition source – specially for the rural poor dependent on common property resources. This session is aimed to give an idea about open water fisheries resources and their impacts.

**Objective:** After this session participants will be able

- To describe open water fisheries resources of Bangladesh
- To describe and explain the importance of open water fisheries resource.

**Time:** 1 hr. 30 min.

**Materials:** Flipchart paper, markers, flipchart board, white board.

**Methods:** Discussion, brainstorming, small group work and presentation.

#### **Process:**

Step 1: At the beginning the facilitator will initiate discussion by welcoming all the participants in the session. He/she will introduce the topic through asking questions to the participants:

1. What do we understand by open water fisheries?
2. What are different types of fisheries in the country?

Through question and answer, brainstorming and building consensus she/he will create an understanding of open water fisheries resources of Bangladesh among the participants. (water bodies, fish and other aquatic resources, briefly on ecosystem, production system etc.)

Step 2. Participants will be divided into small groups, 5/6 in each group will be encouraged to discuss the importance of open water fisheries resources, with examples to the

- i. Livelihood of the people
- ii. Fishers/Natural resource users
- iii. National economy
- iv. Environment, diversity and other related issues
- v. Open water fisheries interaction with crop cultivation/aquaculture.

They will write down their findings on the flipchart papers. Representative from each of the groups will present their findings in front of the whole group for discussion and consensus building.

The facilitator will conclude the session.

## Session 2

### **Topic 2: Present Status, Trend, Issues Related to Open-water Fisheries: Why Improved Management Required**

**Background:** The vast and productive open water fisheries resource is degrading rapidly. The reasons are mainly loss of habitat and ever increasing harvesting pressure. The results are reduced fish yields, reduced biodiversity, reduced income of fishers and others and reduction in nutrition supply especially to the poorest communities.

The manager(s) and development workers should have a clear understanding of the present status of the resource base, changing trend and issues related to this. From there they will be able to reach conclusions on why improved management of the open water fisheries is required and how it can be achieved.

**Objectives:** After this session participants will be able to:

1. Describe present status of the open water fisheries resource
2. Describe and explain trends in the resource
3. Describe and explain the issues related to this.

**Time:** 1 hr. 30 min.

**Materials:** Flipchart paper, markers, flipchart board, white board.

**Methods:** Open discussion, brainstorming, small group work and presentation.

**Process:** Step 1. The facilitator will initiate discussion by introducing the topic. He/she will invite participants to discuss the resource status from their own experience and observations, also the trend of degradation. He will supply some facts that help build a good understanding among the participants about the present status and trend of the vast open water resources.

Step 2. Participants will be divided into two groups. Group 1 will raise issues related to or impacting on the open water fisheries resources and explain; group 2 will decide on how to address and the options. Two persons in two separate flipchart papers will note down the issues and how to address. Both the groups will justify both issues and means to address before taking them for consideration. The facilitator will encourage participation add his views and ideas in the same way.

The facilitator will conclude the session.

## Session 3

### Topic 3: Introduction to Fisheries Management and Fisheries Regulations

**Background:** Management of Fisheries resources requires, if sustainable production is to be obtained and maintained, control and limitation of the fishing effort. On the other hand poor people's livelihood and their nutrition supply is directly related to the resource – adding more dimensions to the issue of sustainable management. If the resource is degraded, management activities should include resource improvement through habitat restoration, re-excavation, plantation and stock enhancement.

However, this session will mainly discuss objectives, management options and fisheries regulations (all regulation related to fisheries - including Forest Department) in the light of inland open water fisheries in Bangladesh and the impact of over fishing.

**Objectives:** After this session participants will be able to describe and explain:

- i. Objectives and options of open water fisheries management in Bangladesh,
- ii. Fisheries regulations and difficulties in their implementation.

**Time:** 1 hrs. 30 mins.

**Materials:** Flipchart paper, markers, flipchart board, white board.

**Methods:** Open discussion, brainstorming, small group work and presentation.

**Process:** Step 1. The facilitator will initiate discussion on importance of open water fisheries management. Participants in small groups will be invited to write down on:

- i. What should be the objectives of open water fisheries management in Bangladesh;
- ii. What are the areas that need to be addressed to manage open water fisheries resources in Bangladesh;

Representative of each group will present their findings in the plenary for discussion.

Step 2. Facilitator in a participatory method will discuss methods of open water fisheries management with their merits and demerits considering Bangladesh open water fisheries. After that he/she will invite participants in small group to discuss and note down "what are the difficulties of open water fisheries management in Bangladesh".

Step 3. Facilitator will discuss on the existing rules and regulations in Bangladesh and he will invite all the participants to discuss openly on the difficulties to enforce those rules and regulations.

Facilitator will conclude the session.

## Session 4

### Topic 4: Fisheries Ecology, Biodiversity and Conservation

**Background:** Bangladesh is one of the largest deltas in the world through which flow two big rivers – the Ganges and the Brahmaputra. The country is literally crisscrossed by around 250 large and small rivers; there are thousands of *haors*, *baors*, *beels*, *khals* etc. along the floodplains of these rivers. The vast water bodies along with their diverse fauna and flora present a unique aquatic ecosystem. A good understanding of the diverse system is essential. The different components, influencing factors and interactions are the areas of interest.

This session, along with an understanding of the complex system will also build a knowledge base on biodiversity, conservation aspects and fisheries regulations.

**Objectives:** After this session participants will be able to

1. Explain ecological aspects of fisheries and open water resources
2. Explain the importance, ways and means of fisheries conservation

**Time:** 1 hour.

**Materials:** Flipchart paper, flipchart board, white board, marker.

**Methods:** Open discussion, brainstorming, small group work and presentation.

**Process:** Step 1. The facilitator will initiate the discussion by explaining through asking questions:

- a. What is an ecosystem, what are the biotic and abiotic factors of the open water ecosystem, food chain, food web;
- b. How different components interact and influence the systems (diagram of an aquatic ecosystem will be helpful);
- c. Why and how fish migrate;
- d. How these factors are related to productivity of a system;
- e. Biodiversity.

Step 2. Participants will be divided into small groups and given group work on:

- i. What is conservation, what is its importance;
- ii. What steps/ measures can be taken to conserve open water fisheries resource;

The facilitator will conclude the session.



## Session 5

### **Topic 5: Possible Management Approaches and Models for Fisheries Co-management**

Background: Integrated Co-management of common property renewable natural resources is gaining popularity in Bangladesh. This coincides with a change in emphasis towards participatory sustainable resource management and use and the local institutions ... for this. Again, entitlement and equitable access to resources is still a big question. Related questions are: who should participate?, what sort/structure of community organization will be able to manage the resources properly and will ensure the poor users entitlement?, who are fully dependent on the resources for their livelihood and for their family nutrition supply?

This session will discuss some of the options of MACH and CBFM/FFP, based on experience gained from 2 projects and other similar types of projects.

Objectives: After this session each of the participants will be able to:

- i. Describe and explain the possible management approaches;
- ii. Explain management options for MACH, CBFM/FFP etc.;
- iii. Illustrate mechanism for developing apex body.

Time: 1 hour.

Methods: Open discussion, brainstorming, small group work and presentation.

Materials: Flipchart paper, flipchart board, white board, marker.

Process: Step 1. The facilitator will initiate the discussion with importance and approaches of community based fisheries management for Bangladesh open water fisheries. All participants will participate in discussion and contribute to make a list of options of management approaches.

Step 2. Through small group work each group of participants will identify one management approach, they will describe and provide their logic for their selection identifying which situation it would be suitable for and why. They will also prepare structure for apex body again identifying where it would be appropriate and why. Representative from each group will present their group work in the plenary for discussion.

The facilitator will conclude the session.

## Session 6

### **Topic 6: IFM Approaches for Sustainable Productivity and Equitable Distribution of Benefits**

Background: Floodplain ecosystem is a complex base comprising of various systems and sub-systems, which are interlinked and interdependent in nature. By virtue of the nature of multiple resources systems and multiple resource users, the floodplain resources management demand integrated systems-based approaches incorporating all production systems (and sub-systems) upon which different occupational and social groups are dependent at varying degrees for their livelihood.

To this end, it is important to have clear understanding of the various production systems in typical floodplain ecosystem of Bangladesh, its present state and status in terms of physical, biological and social contexts. The next step is to understand the systems problems – its types, nature and extent and then the systems solutions, which are doable in the context of Bangladesh.

Objectives: After the session, participants will be able to:

1. Conceptualize the interlinking aspects of various production systems of floodplain resources and their users
2. Analyze the systems problems relevant to various production systems of floodplain ecosystem
3. Workout integrated floodplain resources management options with multiple resource users

Time: 1 hour

Materials: Flipchart papers, markers, flipchart board, white board.

Methods: Open discussions, brainstorming, small group work and presentation

Process: Step-1: The facilitator will initiate discussion by introducing the topic. The facilitator will assess the current knowledge base of the participants on the topic through asking some basic questions. Then the facilitator will deliver speech on the topic highlighting the background, facts, issues and necessity of IFM in the context of Bangladesh.

Step-2: The facilitator will involve the participants in small group works by forming 2-3 groups and assign them to identify systems problems and workout systems solutions of a typical floodplain ecosystem in Bangladesh.

Step-3: The facilitator draw conclusion on the session based on the group works and relevant works done in Bangladesh.

The facilitator will conclude the session.

## **Session 7**

### **Topic 7: Restoration of Wetland Habitat**

Background: The habitat of an organism is the place where it lives. One of the major causes of the loss of biological resources is the loss and degradation of habitat. So management of biological resources should include management and restoration of habitat.

This session will give an idea on habitat, its degradation and ways and means of management and restoration.

Objectives: After this session participants will be able to describe and explain:

- i. Habitat and features of aquatic habitats of Bangladesh;
- ii. The causes of degradation of aquatic habitat and the ways and means to restore the habitat.

Time: 1 hour.

Materials: Flipchart, marker, flipchart board.

Methods: Open discussion, brainstorming, small group work and presentation.

Process: Step 1. The facilitator through participatory discussion will create an understanding of habitat and features of wetland habitat with reference to wetlands in Bangladesh. After that the facilitator will ask the participants to tell the manmade and natural causes of aquatic habitat degradation. The causes will be written down on the flipchart.

Step 2. After that participants will be invited to do group work on how to restore wetland habitats. They will write down their findings on flipchart. Representative from each group will present their group work in the plenary for discussion.

The facilitator will conclude the session.

## Session 8

### Topic 8: Aquatic Sanctuary

**Background:** Well demarcated protected areas, where targeted fauna /flora will not be disturbed or captured can be denoted as sanctuaries. Sanctuaries can be year round or seasonal are the most important refuge location for fish and other animals (if aquatic sanctuary) or for wildlife (if forest or terrestrial sanctuary) in the most adverse conditions for the fauna.

Sanctuaries are a well-proved conservation measure for biodiversity and sustainable use of resources. So this is very much liked by conservationists and sustainable resource use planners. This session will concentrate on purpose, location, benefits, methods to establish and management aspects of aquatic sanctuaries.

**Objectives:** After this session participants will be able to:

- i. Explain what a sanctuary is and its purposes;
- ii. Explain also where and how to establish aquatic/ fish sanctuaries and their management practices.

**Time:** 1 hour.

**Materials:** Flipchart paper, markers, flipchart board, white board.

**Methods:** Open discussion, brainstorming, small group work and presentation.

**Process:** The participants along with the facilitator will define sanctuary and its purposes and, types, those will be written on the board.

After that participants will be given group works in small groups on:

1. Suitable locations for a fish sanctuary
2. Methods of establishing a sanctuary
3. Management of sanctuary
4. Difficulties faced in maintaining a sanctuary

The facilitator will conclude the session.

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1. m~Pxcĭ	12
2. cÖwk¶řYi j¶"	13
3. `yBw`be"vwc cÖwk¶řYi mgq m~Px	14
4. Awařekb 1. evsjvř`řki Db¥y³ Rjvkřq grm" mú` I Gi ,i"Zi	15
5. Awařekb 2. Db¥y³ Rjvkq múř`i eZ©gvb Ae- 'v, cwieZ©řbi aviv Ges mswk-ó welq mg~nt	19
6. Awařekb 3. grm" e"e- 'vcbv, grm" AvBb I bxwZgvjv msµvš— aviYv	22
7. Awařekb 4. grm" cÖwZřek, Rxe ^ewPĭ Ges msi¶Y	25
8. Awařekb 5t grm" mcř`i mn-e"e- 'vcbvi møve" řKřkj Gs msMVwbK KvVvřgv	32
9. Awařekb 6. mgwš^Z c-vebf~wg e"e- 'vcbv cwiPq	40
10. Awařekb 7. RjR Avevm cybti"xvi	47
11. Awařekb 8. RjR Afqvk <sup>a</sup> g	52

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**cÖ\_g w`b**

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09t00-10t30	cÖwk¶Y DþØvab	cÖkvmb, grm" wefvM, GbwRI-AvBcvK I Iqvi©wdk-AvBcvK Gi Kg©KZv©e,,`
10t30-11t00	cÖwk¶þYi cÖZ"vkv	W. Gg wR þgv` —dv I GbwRI-AvBcvK
11t00-11t30	Pv cvb weiwZ	
11t30-13t00	Awaþekb 1t evsjvþ` þki Dbÿy³ Rjvkþq grm" mæú` I Gi ,i"Zi	W. Gg wR þgv` —dv I GbwRI-AvBcvK/wcGgGAvi GþmvwmþqU
13t00-14t00	`ycyþii Lvlqv I bvgvR	
14t00-15t30	Awaþekb 2t Dbÿy³ Rjvkq grm" mæúþ`i eZ©gvb Ae" 'v, cwieZ©þbi aviv I mswk-ó welqmg~n	W. Gg wR þgv` —dv I GbwRI-AvBcvK/wcGgGAvi GþmvwmþqU
15t30-17t00	Awaþekb 3t grm" e"e" 'vcbv, grm" AvBb I bxwZgvjv msµvš— aviYv	þRjv g"rm" Kg©KZ©v /þRjv eb Kg©KZ©v/mwbqi DcþRjv grm" Kg©KZ©v
17t00-17t10	cÖ_g w` þbi mgvwß	GbwRI-AvBcvK/wcGgGAvi GþmvwmþqU

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09t00-09t30	c~e© cvþVi cybtivþjvPbv	W. Gg wR þgv` —dv
09t30-10t30	Awaþekb 4t grm" cÖwZþek, Rxe%ewPÍ Ges msi¶b	W. %omq` Avjx AvRvnvi I GbwRI-AvBcvK/wcGgGAvi GþmvwmþqU
10t30-11t00	Pv cvb weiwZ	
11t00-12t00	Awaþekb 5t grm" mæcþ`i mn- e"e" 'vcbvi mæçve" þKSkj Gs msMVwbK KvVvþgv	W. Gg wR þgv` —dv I GbwRI-AvBcvK/wcGgGAvi GþmvwmþqU
12t00-13t00	Awaþekb 6t mgwš^Z c-vebf~wg e"e" 'vcbv cwiPq	W. Gg wR þgv` —dv I GbwRI-AvBcvK/wcGgGAvi GþmvwmþqU
13t00-14t00	`ycyþii Lvlqv Ges bvgvR	
14t00-15t00	Awaþekb 7t RjR Avevm cybi"xvi	W. %omq` Avjx AvRvnvi I GbwRI-AvBcvK/wcGgGAvi GþmvwmþqU



15t00-16t00	Awaþekb 8t RjR Afqvka <sup>a</sup> g	W. %omq` Avjx AvRvnvi I GbwRI-AvBcvK/wcGgGAvi GþmvwmþqU
16t00-16t30	cÖwk¶Y g~j"vqb	wW I Gd, GbwRI- AvBcvK/wcGgGAvi GþmvwmþqU
16t30-17t00	mvwU©wdþKU weZiY Ges mgvwß	AvBcvK/wcGgGAvi GþmvwmþqU

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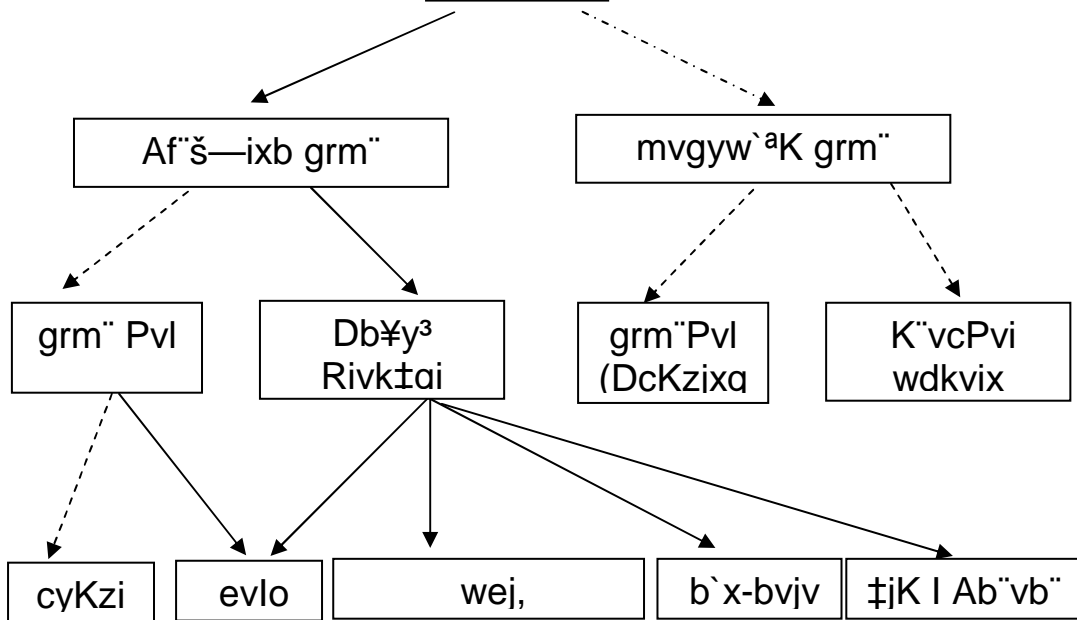
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## evsjv`ţki Dbŷy<sup>3</sup> Rjvkţqi grm" mǎú`

Dbŷy<sup>3</sup> Rjvkţqi grm" mǎú` evsjv`k mǎú`kvjx, Gţ`ţki AmsL" ţQvU-eo b`x-bvjv, Lvj-wej, nvlo-evlo BZ`vw` wewfbœ cÖK...wZi Rjvf~wgţZ ARm&<sup>a</sup> cÖK...wZi cÖvYx I Dw<sup>TM</sup>ţ`i emevm| GB Dbŷy<sup>3</sup> Rjvkq mg~ţn 300 wUi I AwaK cÖRvwZi gvQ I wPswø evm Kţi (ingvb, 1989)|

evsjv`ţki ţgvU Dbŷy<sup>3</sup> Rjvkţqi cwigvY 49 jŋ ŋnt Gil ŋekx hv Gţ`ţki ŋgvU Avf`š—ixY Rjvkţqi 95 fvM| wewfbœ cÖRvwZ Zvţ`i Rxeb Pţµi wewfbœ mgţq GB we`Z...Z Ges `ewPĪgq Rjvf~wg wewfbœfvţe KvţR jvMvq| thabt esk e,,wx, cÖwZcvjb, Lv`"MÖnb, Awfevmb Ges kxZKvjxb Av [arm" w` |



Dbŷy<sup>3</sup> Rjvkţqi `Re mǎú` ,wj cÖavbZ gvQ, wPswø, K"Qc, e`vO, kvgyK, wSbyK, KvKov I wewfbœ aiţbi RjR Dw<sup>TM</sup>ţ` hv gvbyţli Ges ŋMv-Lv`" wnmvţe e`eüz nq|

evsjv`ţki evrmwiK grm" Drcv`b 2008-2009 mbt ŋgvU = 2701370  
 ŋgt Ut  
 ŋgvU 2007-08 = 2,563,296

grm" mǎú` e`e` 'vcbv | Drcv` †bi mv†\_ mǎú,,<sup>3</sup> ms` 'v | msMVb t

**K. miKvwi t**

1. grm" | cīmǎú` gš¿Yvjq (MoFL)
2. f~wg gš¿Yvjq (MoL)
3. cwi†ek | eb gš¿Yvjq (MoEF)
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4. grm" Awa` βi (DoF)
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7. ` 'vbxq miKvi cÖ%oKvkj Awa` βi (LGED)
8. eb Awa` βi (FD)

**L. cÖavb GbwRI mg~n t**

1. e<sup>a</sup>vK (BRAC)
2. cÖwkKv (PROSHIKA)
3. KvwiZvm (CARITAS)
4. MÖvgxb e`vsK (GRAMEEN BANK)
5. evuP†Z †kLv (BANCHTE SHEKHA)
6. wm,Gb,Avi,Gm (CNRS)
7. †Kv†WK (CODEC) BZ`vw`

**M. Avš—©RvwZK ms` 'vmg~n t**

1. GdGI (FAO)
2. BDGbwWwc (UNDP)
3. BD Gm G AvB wW (USAID)
4. wWGdAvBwW (DFID)
5. Iqvi©wdk †m›Uvi (The WorldFish Center)
6. †Kqvi evsjv†`k (CARE-Bangladesh)
7. wek`e`vsK (World Bank)
8. WvwbWv (Danida)
9. wRwU†RU (GTZ) BZ`vw`
10. AvB Avi wR (IRG)

**N. grm"Rxex†`i msMVb | mgvR|**

**Db¥y<sup>3</sup> Rjvk†qi grm" mǎú†`i ,i"Zi**

evsjv†`†ki †gvU grm" Drcv` †bi wmsn fvM Av†m Db¥y<sup>3</sup> Rjvkqmg~n n†Z Ges GUV cÖvq 41.36% (grm" wefvM, 2007-2008)| cÖvq 12 j¶ †jvK evwbwR"KwfwË†Z GB mǎú†`i mv†\_ RwoZ Ges cÖvq 120 j¶

tjvK †gŠmyg wfwĚK GB †m±†i KvR K†i| MÖvgxb RbM†Yi cÖvq 80% fvM c-vebf~wg, Lvj ev we†j gvQ weµq ev Lvlqvi D†Í†k" (grm" wefv†Mi cÖKvkbv) a†i \_v†K| MÖvgxb RbM†Yi GKUv eo Ask (we†klK†i Mixe RbMY) Zv†`i ^`wbK cvwievwiK Avwg†li cÖ†qvRb GB Db¥y³ Rjvkq †\_†K †gUvq| mvwe©Kfv†e G†`†ki †gvU cÖvYxR Avwgl MÖn†bi 60% Av†m gvQ †\_†K| wRwWwc†Z grm" Lv†Zi Ae`vb 6% Ges 12% ißvbx Avq Av†m grm" LvZ n†Z (cwimsL`vb ey`†iv)|

**Ab`vb" \_i"Zi**

1. f~-Mf©` ' cvwbi ` —i bevqb
2. Rjevqyi wbqvgK
3. RjaviK (eb`v wbqš¿b)
4. So-SÁv n†Z i¶v
5. †bŠ cwienb
6. cywó msi¶Y
7. mvgvwRK l mvs` ‹...wZK g~j"
8. cÖwZ†ekMZ g~j"
9. Rj†mP/K...wl

**Rjvf~wgi Zzjbvg~jK A\_©%bwZK Drcv`b (UvKvq) t**

Rjvf~wg - 31,000 UvKv/cÖwZ †n±i/cÖwZ ermi  
 †ev†iv avb- 18,000 UvKv/ cÖwZ †n±i/cÖwZ ermi

GLv†b D†j-L` †h, Rjvf~wg †\_†K Mixe RbMbl h†\_ó DcK...Z nq;  
 Dciš' †ev†iv avb Pvl †\_†K †KejgvÍ Rwgi gvwjK jvfevb nq|  
 (m~Ît gvP& cÖKí cwiPvwjZ nvBj nvl†ii M†elYvi djvdj)

## Awaṭekb-2

### Dbɣy³ Rjvkq mǎúṭ`i eZ©gvb Ae⁻ `v, cwieZ©ṭbi aviv Ges mswk-ó welq mg~nt

**cUf~wg t** evsjvṭ`ṭki we⁻ Z...Z Dbɣy³ Rjvkq mǎú` Lye `a“Z aŸsm cÖvß nṭ”Q| g~j KviY mg~n nṭ”Q t Avevm⁻ `j bó nṭq hvlqv Ges mǎúṭ`i Dci ea©bkbj Pvc| Gi dṭj gvṭQi Drcv`b Kṭg hvṭ”Q, Kṭg hvṭ”Q Rxe%ewPÎ, m⁻ ú,,³ṭ`i Avq l cywó mieivn n«vm cvṭ”Q| GB Ae⁻ `vq mePvBṭZ ṭekx ¶wZ MÖ⁻ ` nṭ”Q MÖvgxb Mixe RbMY Ges grm“Rexiv hvṭ`i Avq Ges cÖvYxR Avwgl Pvwñ`vi mǎú~Y© AskB cyiY nq Dbɣy³ Rjvkq mǎú` ṭ\_ṭK|

mǎúṭ`i eZ©gvb Ae⁻ `v, cwieZ©ṭbi GB aviv mǎúwK©Z wewfbœ welq BZ`vw` mǎúṭK© mǎú` e`enviKvix, Dbœqb Kgx© Ges e`e⁻ `vcṭṭ`i cwi⁻ `vi aviYv \_vKv cÖṭqvRb| GB Awaṭekb AskMÖnYKvixMY Dbɣy³ Rjvkṭqi grm“ mǎúṭ`i eZ©gvb Ae⁻ `v l DbœZ e`e⁻ `vcbv cÖṭqvRbxqZv Ges Zv wKfvṭe mǎœe ṭmB aviv jvf Kiṭe|

**Dṭik` t** GB Awaṭekb cṭi AskMÖnbKvixMb

- Dbɣy³ Rjvkq grm“ mǎúṭ`i eZ©gvb Ae⁻ `v eY©bv KiṭZ cviṭeb|
- Dbɣy³ Rjvkq mǎúṭ`i cwieZ©ṭbi wewfbœ aviv e`vL`v KiṭZ cviṭeb|
- ṭKb DbœZ e`e⁻ `vcbv cÖṭqvRb Zv e`vL`v KiṭZ cviṭeb|

**mgq t** 1 N›Uv 30 wgwbu

**DcKiY t** wd~cPvU© KvMR, wd~cPvU© ṭevW©, ṭnvqvBU ṭevW©, gvKv©i|

**cxwZ t** gy³ AvṭjvPbv, ṭeªBbówg©s, ṭQvU `jxq KvR, Dc⁻ `vcbv|

**cÖwµqv t**

**avc 1 t** mnvqZvKvix welq cwiwPwZi gva`ṭg AvṭjvPbv ii“ Kiṭeb| wZwb AskMÖnYKvixṭ`i wbṭRṭ`i AwfÁZv l ch©ṭe¶Y nṭZ gy³ Rjvkṭqi grm“ mǎúṭ`i eZ©gvb Ae⁻ `v l Gi Ae¶ṭqi aviv mǎúṭK© AvṭjvPbvi AvnŸvb Rvbvṭeb| mnvqZvKvix G mgq G msµvš— e`vcvṭi AskMÖnYKvixṭ`i gvṭS GKwU cwi⁻ `vi aviYv m,,wó Kiṭeb| mnvqZvKvix AvṭjvPbvi g~j welq mg~n wd~cPvU© KvMṭR wjLṭeb|

**avc 2** t †QvU `jxq KvR, mnvqZvKvix AskMÖnbKvix†`i `ywU `†j fvM  
Ki†eb Ges Zv†`i gy†LvgywL emvi e`e`v Ki†eb| GKwU `j gy³  
Rjvk†qi grm` mæú` msµvš— welq ev mgm`v Zz†j ai†eb Ges  
cÖ†qvR†b e`vL`v Ki†eb| wØZxq `j H mgm`v †gvKv†ejvq wK ai†bi  
e`e`v MÖnb Kiv †h†Z cv†i †mB msµvš— Av†jvPbv Ki†eb| Dfq `jB  
Zv†`i e³†e`i `^c†¶ hyw³ cÖ`k©b Ki†eb| HK`g†Z †cŠQv†bvi ci  
welq,wj wd-cPvU© KvM†R wjwceX Kiv n†e|

mnvqZvKvix AskMÖnÖYKvix†`i Av†jvPbvq AskMÖnY Ki†Z Drmvn  
cÖ`vb Ki†eb Ges Zvi gZvgZ cÖ`vb Ki†eb| mnvqZvKvix Awa†ekb  
mgvß Ki†eb|



**Dbÿy³ Rjvkq mǎúř`i eZ©gvb Ae`'v, cwieZ©řbi aviv  
Ges mswk-ó welq mg~nt**

Avgiv mKřjB Avgvř`i AwfÁZv ř\_řK Rvwb řh, Dbÿy³ Rjvkřqi grm` mǎú` µgvebwZkxj| c~ře© řh cwigvY gvQ cvlqv řhZ, řh cÖRvwZ ^ewPÎ jřř` Kiv řhřZv, řh cwigvY eo gvQ ř`Lv řhZ eZ©gvřb Zv ř`Lv hvq bv|

grm` wefvřMi DcvĚ ř\_řK Rvbv hvq řh grm`Pvl nřZ řhfvře Drcv`b řeřořQ řm Zzjbvq MZ KřqK ermři Dbÿy³ Rjvkřqi gvřQi Drcv`b KgřQ|

**Dbÿy³ Rjvkq grm` mǎúř`i eZ©gvb Ae`'v**

evsjvř`řki mvwe©K grm` Drcv`b 30-40% n«vm (grm` wefvřM, 75-76 - 89-90) řcřqřQ grm` wefvřMi Z\_` Abymvři evrmwiK 50-100 řKvwU UvKvi mgZzj` Drcv`b n«vm nřqřQ, (1995-2000) ch©š—gvQ Lvlqvi cwigvY mvwe©Kfvře 15% n«vm řcřqřQ, Mixeř`i řřřř Gi cwigvY 38% (weweGm)|

i`B RvZxq gvQ I eo K`vUwdřki Drcv`b n«vm řcřqřQ 50%| GKwU fvj Drcv`bkxj Dbÿy³ Rjvi Drcv`b 250-300 řKwR/řnt| wKš' wKQy RjvřZ cvlqv řMřQ 51-160 řKwR/řnt (gvP& wfwĚZ\_`) Ges řKv\_vl cvlqv řMřQ 45-125 řKwR/řnt (wmweGdGg wfwĚZ\_`)|

evsjvř`řk `^v`y cvwbi 20% Gil AwaK cÖRvwZi gvQ A\_v©r 54wU cÖRvwZ wejywbři cř\_ (AvB BD wm Gb)|

MZ 20 ermři ř`řki cÖavb b`x mg~řni cÖevn n«vm řcřqřQ cÖvq 50% (cvwb Dbœqb řevW©)| Gi g~j KviY nř`Q MwZ cř\_ evua wbgv©b (fviřZ), ř`řki Af`š—ři gvľvwi³ cvwb DřĚvjb Ges Avil wKQy KviřY jřř jřř řnři gy³ Rjvf~wg řřwZMÖ`' nř`Q|

eb`v wbqš;Y I řmP (FCDI) cÖKí mg~n Gř`řk Rjvf~wg Aeřřq Ges řřwZMÖ`' Kivi GKwU eo KviY| eb DRvo nlqvřZ b`x, Rjvkq fivřUi nvi řeřořQ|

GQvov iv`—v, evRvi, M,,nvqb BZ`vw` wbgv©řbi gva`řg cÖPzi Rjvf~wgi cÖK...wZ cwieZ©b ev Gi Aeřřq Kiv nřqřQ|

**Dbÿy³ Rjvkq mǎúwK©Z welq mg~n**

## K. Rjvf~wgi ^Re I †fŠZ Ae~'v

1. i~' < †gŠmy†g b`x, Lvj, wej BZ`vw`†Z cvwbi cwivgY n«vm (cÖevn n«vm, cwjR†g fivU nlqv, eb`v wbqš¿YI †mP `vcbv);
2. b`x, wej, Lvj BZ`vw`i ms†hvm eÜ n†q †M†Q (iv~ —v NvU, Gd wm wW AvB, fivU nlqv);
3. b`x, Lvj, wej BZ`vw`i Zj†`k fivU n†q hvlqv (ebvÂj n«vm, cvnv†o cwiPvwjZ K...wl KvR);
4. `~IY (wkí-KviLvbv, K...wl, M,,n~'vjx);
5. ¶wZKi cxwZ†Z Ges AwZwi³ gvQ aiv (cvwb †m†P gvQ aiv, `~'vqx `~'vcbv, gkvix Rvj, Kv†i>U Rvj Ges gvÍvwZwi³ AvniY);
6. Rjvf~wgi `~'vqx cwieZ©b (K...wl, knivqb, iv~ —v-NvU, emwZ, wkí KviLvbv)|

## L. bxwZgvjv msµvš— welq mg~n

1. Rjgnvj mg~†ni eZ©gvb BRviv cÖ`vb bxwZgvjv I cxwZ;
2. RvZxq chv©†q msi¶Y I Afqvka<sup>g</sup> msµvš— bxwZgvjvi Afve;
3. f~wg e`envi cwiKÍbvi Afve;
4. grm` AvBb cÖ†qv†M bvbvb cÖwZK~jZv;
5. cÖvK...wZK mǎú` I Ab`vb` †¶†Í (f~wg, K...wl, cvwb, Kj-KviLvbv, `~IY BZ`vw`) RvZxq ev `~'vbxq chv©†q †Kvb mgwš^Z e`e~'vcbv cwiKÍbv bv \_vKv|

## Db¥y³ Rjvkq mǎú` e`e~'vcbv †Kb ,i“Zjc~Y©

- G†`†ki cÖvq `yB-Z...Zxqvsk AÂj Rjvf~wg
- Rjvf~wg mǎú†`i Dci G†`†ki RbMY cÖZ`¶ ev c†iv¶fv†e wbf©ikxj, MÖvgxb RbM†Yi cÖvq 80% †jvK †Kvb bv †Kvbfv†e GB mǎú†`i Dci wbf©i K†i|
- Mixe RbMY GB mǎú†`i mivmwi DcKv†ii 50% Ges Ab`vb` DcKv†ii Ask cvq|
- cÖvYx I Dw™ç†`i ^ewPÍ fiv G†`†ki Rjvf~wg|

## Rjvf~wg Ae¶†qi cwiYwZ

1. AvÂwjK cÖvK...wZK fvimvg` bó n†Z cv†i;
2. AmsL` cÖvYx-Dw™ç†`i Avevm~'j bó n†e Ges Rxe ^ewPÍ n«vm cv†e;
3. gi“KiY cÖwµqv ii“ n†Z cv†i;
4. A†c¶vK...Z bxPz AÂj eb`vKewjZ n†e;
5. cvwb `~IY- cÖvK...wZK cwi†kvab ¶gZv bó nlqv;

6. c~btfiY†hvM“ GRgvjx cÖvK...wZK mǎú` n«vm, gvbyl l †Mv-Lv`“ n«vm, Mixe RbM†Yi RxweKv l Zv†`i cÖwZi¶¶v (RxweKvi) Rvj \_vK†e bv|

**~'vbxq mn-e“e~'vcbv †Kb ,i“Zic~Y©**

1. mǎú` e“enviKvix hviv Gi †\_†K jvfevb nq, hv†`i RxweKv l cywó H mǎú†`i Dci mivmwi wbf©ikxj Zv†`iB GB mǎú` e“e~'vcbvq \_vKv cÖ†qvRb|
2. ~'vbxq e“enviKvixMYB mǎú†`i †UKmB e“e~'vcbv l `xN© e“env†i AvMÖnx n†e hw` H mǎú†` Zv†`i AwaKvi \_v†K|
3. ~'vbxq RbMY Zv†`i ~'vbxq Ávb l AwfÁZv mǎú` e“e~'vcbvq Kv†R jvMv†Z cvi†e|

### Awaṭekb- 3

## grm" e"e" 'vcbv, grm" AvBb I bxwZgvjv msḡḡvš— aviYv

**cUf~wg t** gvṭQi Drcv`b evovṭZ Ges ṭUKmB KiṭZ PvBṭj grm" mṣú` e"e" 'vcbvq wbqwsḥZ cxwZ Ges mnbxq Pvc wbwḍr Kiv cÖṭqvRb| A\_v©r gvQ aivi cxwZ Ges gvṭv wbqšḥY cÖṭqvRb| wKš' hLb GB mṣú` RbMṭYi Avq, Rxebhvṭv wbev©n Ges GKgvṭ cÖvwYR Avwgṭli Dm ZLb Avevi wbqšḥb Avṭivc Kómva" nṭq hvq| mṣú` Dbœqṭbi Rb" GKB mvṭ\_ wewfbœ e"e" 'v ṭhgbt Lbb, MvQ jvMvb, ṭcvbv gRy` BZ"vw` KvRI nvṭZ wbṭZ nṭe|

GB ṭmkṭb g~jZt wewfbœ e"e" 'vcbv cxwZi K\_v AvṭjvPbv Kiv nṭe| Zṭe wewfbœ cÖKvi ṭfšZ e"e" 'vcbv ṭhgb cyYtLbb, ṭcvbv gRy` BZ"vw` c,,\_K Awaṭeṭṭṭb we" —...Zfvṭe AvṭjvPbv Kiv nṭe|

**Dṭĭk" t** GB Awaṭekb ṭkṭl AskMÖnYKvixe,,ḡ` t

1. grm" mṣú` e"e" 'vcbvi Dṭĭk" Ges e"e" 'vcbvi wewfbœ cxwZ eY©bv Ges e"vL"v KiṭZ cviṭeb|
2. evsjvṭ`ṭki grm" msḡḡY AvBb mg~n I Gṭ`i cÖṭqvṭMi mgm"v mg~n ejṭZ I e"vL"v KiṭZ cviṭeb|

**mgq t** 1 NḡUv 30 wgwbu|

**DcKiY t** wd~cPvU© KvMR, wd~cPvU© ṭevW©, ṭcvóvi KvMR, ṭnvqvBU ṭevW©, gvKv©i|

**cxwZ t** gy<sup>3</sup> AvṭjvPbv, ṭe<sup>a</sup>Bb÷wg©s, ṭQvU`jxq KvR Ges Dc" 'vcbv|

**cÖwµqv t**

**avc** 1. mnvqZvKvix welq cwiwPwZi gva"ṭg AvṭjvPbv ĩi" Kiṭeb| wZwb AskMÖnYKvixṭ`i Dbḡy<sup>3</sup> Rjvkṭqi grm" mṣú` e"e" 'vcbvi ,i"Zj AvṭjvPbv KiṭZ ejṭeb| G mgq wZwb cÖvß Z\_"mg~n wd~cPvU© KvMṭR wjwcex Kiṭeb| Gici wZwb AskMÖnYKvixṭ`i ṭQvU`ṭj fvM Kṭi Zvṭ`i wbṭæi welqmg~n AvṭjvPbv I ṭcv÷vi KvMṭR wjwcex KiṭZ ejṭeb|

1. evsjvṭ`ṭki Dbḡy<sup>3</sup> Rjvkṭqi grm" mṣú` e"e" 'vcbvi Dṭĭk" wK nlqv DwPr|
2. Dbḡy<sup>3</sup> Rjvkṭqi grm" mṣú` e"e" 'vcbvi Rb" ṭKvb ṭKvb welṭqi Dci ṭRvo ṭ`qv cÖṭqvRb|

cÖwZ`j ṭ\_ṭK GKRB cÖwZwbwa eo `ṭji wbKU Zvṭ`i `jxq KvR Dc" 'vcb Kiṭeb Ges Dc" 'vcbvi Dci AvṭjvPbv nṭe|

**avc 2.** mnvqZvKvix Dbÿy<sup>3</sup> Rjvk†qi e“e“ ’vcbvi Rb“ cÖ†hvR“  
wewfbœ cxwZ wb†q Av†jvPbv Ki†eb| G mgq wZwb j¶“ ivL†eb †hb  
mKj AskMÖnYKvix Av†jvPbvq ^Ztù~Z© AskMÖnY K†i|

**avc 3.** mnvqZvKvix evsjv††k we“gvb grm“ msi¶¶Y AvBb |  
wewamg~n Av†jvPbv Ki†eb Ges AskMÖnYKvix†`i Kv†Q Rvb†Z  
PvB†eb H mg— AvBb cÖ†qv†M cÖwZK~jZvmg~n wK wK Ges  
wd~cPvU© KvM†R Zv wjwcex Ki†eb|

mnvqZvKvix Awa†ekb mgvß Ki†eb|

## grm" e"e" 'vcbv, grm" AvBb I bxwZgvjv msflvš— aviYv

Dbŷy³ Rjvkŕqi grm" mǎúŕi ,i"Zi Ges Gi µgvebZxkxj aviv e"e" 'vcKŕi GB mǎúŕi `xN©ŕgqv`x †UKmB e"envŕii e"e" 'v Kivi K\_v fveŕZ eva" KiŕQ| †hb GB mǎú` eZ©gvŕbi Pvwñ`v c~iŕYi cvkvcvkw fwel`r eskaiŕi cÖŕqvRb wgUvŕZ cvŕi|

Dbŷy³ Rjvkŕqi grm" mǎú` nŕ"Q cyYtbevqbŕhvm" cÖvK...wZK mǎú| wKš' gvŕvwZwi³ AvniY Ges evm` 'vb bó nŕq hvlqvi dŕj GB mǎú` bevqb †hvm"Zv nvivŕ"Q| hw` GKwU weÁvb wfwĚK e"e" 'vcbv Pvjy Kiv hvq Zŕe G mǎú` Avil AŕbKw`b e"envi Kiv mǎœe nŕZ cvŕi|

## evsjvŕŕki Dbŷy³ Rjvkŕqi grm" mǎú` e"e" 'vcbvi Dŕŕk" wK nŕZ cvŕi

1. ivR%bwZK Ges cÖkvmwbK t mǎúŕi `xN©ŕgqv`x e"envŕii K\_v gv\_vq †ŕL Dchy³ bxwZ wbav©iY I AvBb cÖYqb, we"gvb AvBbm̄g~n cªŕqvŕMi cwiŕek m,,wó, e"e" 'vcbvi weŕK>`axKiY, ` 'vbxq e"enviKvixŕi Øviv mǎú` e"e" 'vcbv|
2. A\_©%bwZK t mŕev©"P A\_©%bwZK Drcv`b, †Rŕŕŕi Avq Ges Rxeb-RxweKv, evRvi e"e" 'v|
3. Rxe Ges cwiŕekMZ t mŕev©"P mnbkxj Drcv`b (MSY), ev` — yZšž, Avevm I Rxe%ewPĪ msiŕŕY Ges Dbœqb|
4. mvgvwRK t mswk-óŕi b`vh" AwaKvi cÖwZôv, mydŕj mylgeŕUb, wbivc` Kg©ms` 'vb, `vwi`ª n«vm|

## Dbŷy³ Rjvkŕqi grm" mǎú` e"e" 'vcbvi wKQy cxwZ/ŕKŠkj

1. †gŠmygx wbŕlavÁv t gvŕQi Rxeb Pŕµi ,i"Zic~Y© mgŕq (†hgbt cÖRbb FZzŕZ) gvQ aivi Dci wbŕlavÁv Avŕivc Kiv nq| ` 'vbxq msMVb KZ...©K e"e" 'vcbvaxb Lvj weŕj gvŕQi cÖRbb †gŠmyŕg 1-3 gvŕmi †gŠmygx wbŕlavÁv LyeB KvH©Ki cÖgvYxZ nŕqŕQ| Gi Rb" mŕPZbZv g~jK KvH©µg cÖŕqvRb|
2. msiwŕŕZ GjvKv ev Afqvkaᵍ t †Kvb Rjgnvj ev Gi †Kvb AskŕK msiwŕŕZ GjvKv ev Afqvkaᵍ wnmvŕe †NviYv Kiv nq Ges msiŕŕY Kiv nq| GB wbav©wiZ GjvKvq mviv ermi ev ermŕii †Kvb wbav©wiZ mgŕq gvQ aiv nŕe bv| GLvŕb Avkaᵍ MÖnY Kŕi gvQ eo nlqvi myŕhvm cvq, i®< †gŠmyŕgi mskUKvŕj Avkaᵍ cvq Ges cieZx© †gŠmyŕg cÖRbŕbi myŕhvm cvq|
3. gvQ aivi miÁvg wbqšžY t ŕŕwZKi gvQ aivi miÁvg e"envi wbwlx Ges Rvŕjji dvuŕmi AvKvi wbqšžY grm" e"e" 'vcbvq LyeB KvH©Ki wnmvŕe weŕewPZ nq| ` 'vbxq msMVb mg~n Zvŕi e"e" 'vcbvaxb weŕj KvŕiŕU Rvj, gkvwi Rvj, †mŕP gvQ

aiv, cvwb cÖevþn evav m,,wóKvwi cxwZ BZ"vw` wbwlx KiþZ cvþi Ges Ab"vb"þ`il GB mg~ — cxwZ mæ^þÜ mþPZb Kþi ZzþZ cvþi|

4. gvþQi AvK...wZi wbþlavÁv t wbw`©ó AvK...wZi þQvU gvQ aivi Dci wbþlavÁv Avþivc Kiv nq| GB wbþlavÁv mvaviYZt cÖRvwZ wfwËK nþq \_vþK Ges GUv þh þKvb `vþb gvQ aivi þbŠKv, AeZiY þK`^a, cwienb ev evRvþi mKj þ¶þÍB cÖþhvR" nþe| Gi dþj gvQ Aš—Z Zvþ`i cÖ\_g cÖRbb FZz ch©š— þeþuP \_vKvi myþhvM þcþZ cvþi| GB þKŠkj mvaviYZ eo AvK...wZi gvþQi (þh ,þjvi Drcv`b Kþg hvþ"Q) þ¶þÍ cÖþhvR" nq|
5. þKvUv cxwZ t GUv GKUv mivmwi AvþivwcZ wbqš¿Y cxwZ| GB cxwZ cÖþqvþMi Rb" grm" Drcv`þbi cÖPzi Z\_ cÖþqvRb nq| evsjvþ`þki Db¥y³ Rjvkq grm" e"e`vcbvq GB þKŠkj cÖþqvM mnR nþe bv|
6. mxgvex cÖþekvwaKvi t mæúþ`i cwigvY wbav©iY Kþi þmB Abyhvqx þRþþ`i msL"v ev þbŠhvþbi msL"v wbqš¿Y Kiv nþq \_vþK| grm"Rxex msMVþbi wbqš¿Yvaxb weþj þKejgví m`m"þ`i gvQ aivi AwaKvi cÖ`vþbi gva"þg GUv Kiv mæœe nþZ cvþi|
7. AwaKvi cÍ t grm" AvniþYi gvÍlvþK mæúþ`i mvþ\_ mvgÄm"~Y© ivLvi Rb" AwaKvi cÍ cÖ`vþbi gva"þg cÖK...Z þRþþ`i gvQ aivi AwaKvi cÖ`vb Ges PvcþK wbqš¿þY ivLvi e"e`v|
8. BRviv cÖ`vb (cÖPwjZ cxwZ)t GKRB þjvKþK ev GKwU msMVbþK BRviv cÖ`vb Kiv nq GB DþÍþk" þh Zviv wbqws¿Z AvniY Kiþe Ges mæú` msi¶þY f~wgKv ivLþe|
9. mæúþ`i Dbœqb t mæúþ`i þfŠZ Dbœqb, þhgb Avevm`þji Dbœqb, cÖþqvRbxq þcvbv gRy` BZ"vw`| weþklZ; Ae¶qvxZ mæúþ`i þ¶þÍ GB cxwZ mg~n Aeja^b Kiv nq|

### **evsjvþ`þki Db¥y³ Rjvkþqi e"e`vcbvi mgm"v mg~n**

1. AwaK msL"K e"enviKvix Ges wbf©ikxj RbMY|
2. RvZxq chv©þq bxwZgvjv mæú` msi¶þY ev Dbœqþb AbyK~j bq|
3. ev` —emæšZ ^eÁvwbK e"e`vcbvi Rb" cÖþqvRbxq hþ\_ó Z\_~ DcvþËi Afve|
4. mæú` e"enviKvixiv hþ\_ó mþPZb bq|
5. Rjvf~wg mæúþ`i evBþii AþbK welq GB mæúþ`i Ae¶þqi Rb" `vqx|
6. grm" AvBb mwVKfvþe cÖþqvM Kiv nq bv|

### **evsjvþ`þk eZ©gvb grm" welqK AvBb mg~n**

1. w` Bó te<sup>1</sup>/<sub>2</sub>j cÖ†UKkb GÛ KbRvi†fkb Ad wdk G`v±, 1950; w` cÖ†UKkb GÛ KbRvi†fkb Ad wdk (G`v†gÛ†g›U) AwW©b`vÝ, 1982 Ges w` cÖ†UKkb GÛ KbRvi†fkb Ad wdk i`jm, 1985 (1995 G me©†kl G†gÛ†g›U n†q†Q)
2. w` †gwib wdkvixR AwW©b`vÝ, 1983 (AwW©b`vÝ bs 35, 1983) Ges w` †gwib wdkvixR i`jm, 1983 (me©†kl i`j)
3. w` wdk GÛ wdk cÖWv±m (cwi`k©b Ges gvb wbqš¿Y) AwW©b`vÝ, 1983 Ges grm` I grm` cY` (cwi`k©b I gvb wbqš¿Y) wewagvjv, 1997|
4. w` U`vsK BxcÖ`f†g›U G`v±, 1939|

**my`ie†b cÖ†qvMK...Z grm` welqK AvBb mg~n**

1. GK cÖRvwZ GK Rvj wdkvwiR
2. GK cÖRvwZ eû Rvj wdkvwiR
3. eû cÖRvwZ GK Rvj wdkvwiR



## Awaṭekb-4 grm" cÖwZṭek, Rxe ^ewPÎ Ges msiṭṭb

**cUf~wg t** cÖK,,wZMZ ^ewPṭÎ mg,,x evsjvṭ`ṭki we<sup>-</sup> Z...Z Rjvf~wg mṭú`| GB ^ewPÎ m,,wó nṭqṭQ GB Rjvf~wg mg~ṭni DrcwË, Gṭ`ṭki Ae<sup>-</sup>'vb, Rjevqy BZ"vw` KviṭY| M½v AeevwnKvq Aew<sup>-</sup>'Z evsjvṭ`k GKwU e,,nr e-Øxc weṭkl| ṭQvU eo cÖvq 250 wU b`-b`x Gṭ`ṭk cÖevwnZ nṭ"Q| Gmg<sup>-</sup> — b`-b`xi AeevwnKvq AmsL" nvlo, evlo, wej, Lvj BZ"vw` we`gvb| GB we<sup>-</sup> Z...Z wekvj Rjvf~wg cÖvYx | Dw<sup>TM</sup>ç` ^ewPṭÎ mṭú`kvjx Ges m,,wó KṭiṭQ GKwU Abb" cÖwZṭek| hviv GB mṭú` e`e<sup>-</sup>'vcbvi mvṭ\_ RwoZ \_vKṭeb Zvṭ`i GB ^ewPÎc~Y© Abb" cÖK...wZK mṭúṭ`i cÖwZṭek weṭkl Kṭi wewfbœ Dcv`vb, cÖfveK mg~n, wg\_w<sup>-</sup> Æeqvi MwZ-cÖK...wZ Ges Gi Drcv`bkxjZv mṭ^ṭÜ aviYv \_vKv Ri"ix|

**Dṭik" t** Awaṭekb ṭkṭl AskMÖnbKvixMY t

1. Dbṭy³ Rjvkṭqi cÖwZṭek e`e<sup>-</sup>'vi wewfbœ Dcv`vb, cÖfveK mg~n, wg\_w<sup>-</sup> Æeqv Ges Drcv`bkxjZv mṭúṭK© ejṭZl e`vL"v KiṭZ cviṭeb|
2. Dbṭy³ Rjvkṭqi grm" mṭúṭ`i Rxe ^ewPÎ msiṭṭYi ,i"Zi (gvbyṭli Rxeb-wRweKvi Dci) | bvbwea cÖwµqv AvṭjvPbv | e`vL"v KiṭZ cviṭeb|

**mgq t** 1 NṭUv|

**DcKiY t** wd~cPvU© KvMR, wd~cPvU© ṭevW©, gvKv©i, mv`v ṭevW©|

**cxwZ t** gy³ AvṭjvPbv, ṭe<sup>a</sup>Bb÷wgs, ṭQvU `ṭj KvR | Dc<sup>-</sup>'vcbv|

**cÖwµqv t avc 1t** mnvqZvKvix welqe<sup>-</sup>'i f~wgKv w`ṭq AvṭjvPbv i" Kiṭeb| wZwb cÖṭkœvËi, AvṭjvPbv | e`vL"v cÖ`vṭbi gva"ṭg wbṭæi welq,ṭjv AskMÖnYKvixMṭYi KvṭQ cwī `vi Kiṭeb t

- K. cÖwZṭek wK, gy³ Rjvkṭqi cÖwZṭeṭk ^Re | A%Re Ask,ṭjv wK wK Ges Lv" wkKj, Lv" RvwjKv BZ"vw`|
- L. wKfvṭe wewfbœ ^Re | A%Re e`' mg~ṭni gṭa" wg\_w<sup>-</sup> Æeqvi cÖwµqv|
- M. gvQ wKfvṭe Ges ṭKb Awfevmb Kṭi| GB RjR cÖwZṭek wKfvṭe gvṭQi Rxeb Pṭµ cÖfve we<sup>-</sup> —vi Kṭi|
- N. Dcṭi ewY©Z welq mg~n wKfvṭe Dbṭy³ Rjvkṭqi Drcv`bkxjZvi mvṭ\_© mṭúwK©Z|

O. Rxe ^ewPî|

P. G mKj cÖwµqvi mv‡\_ gvby‡li Rxeb-RxweKvi mαúK©|

avc 2 t mnvqZvKvix AskMÖnYKvix† i 5/6 R†bi †QvU `†j fvM Ki†eb  
Ges Zv† i †QvU` †j Av†jvPbvi gva`†g;

K. msi¶¶Y wK I Gi „i“Zi wK?

L. cÖwZ†e†ki K\_v we†ePbvq †i†L evsjv††ki gyy<sup>3</sup> Rjvk†qi  
grm` mæú` msi¶¶†Yi Rb` wK wK e`e`v MÖnY cÖ†qvRb?

D<sup>3</sup> welqmg~†ni Dci `jxq gZvgZ wjwcex Ki†Z ej†eb| cÖwZ` †ji GKRB  
eo `†j Zv† i gZvgZ Dc`vcb Ki†eb|

`jxq Dc`vcbvi Dci Av†jvPbv Ges mnvqZvKvixi gZvgZ cÖ`v†bi  
gva`†g Awa†ekbwU †kl n†e|

## grm" cÖwZtek, Rxe%ewPÍ Ges msiŋb

### cÖwZtek Gi aviYv

weÁvþbi þh kvLvq Rxe Ges Zvi ^Re Ges A%Re cwiþeþki gþa" cvi úwiK mæúþK©i welqvw` AvþjvwPZ nq ZvþK cÖwZtek we"v eþj| cÖK...wZi þKvb Ask ev GjvKv þhLvþb cwiþeþki Rxe I ARxe e" mg~þni wg\_w`Æeqvi gva"þg GKwU Av`vb cÖ`vb e"e"v Pvjy AvþQ ZvþK BþKvwmþóg ev cÖwZtek eþj|

cÖwZteþki PviwU Avš—:wµqvKxj Ask \_vþK| 1) ARxe e" mg~n: cwiþeþki þgšwjK ^RweK I A%RweK þgšj mg~n; 2) Drcv`K (m~hv©þjvþKi Dcw`wZþZ Lv" Drcv`þb mŋg Ggb Dw™ç`mg~n; g~jz: meyR Dw™ç`)| 3) Lv`K cÖavbZ: cÖvYxKzj hviv Ab"vb" cÖvYx ev Dw™ç` Ges ^RweK c`v\_©mg~n þLþq \_vþK; 4) cPbµxqvq mŋg Ggb AbyRxe, weþqvRK, cÖavbZ t e"vþ±wiqv I QÍvK| Giv cÖþUvc-vRg ev wewfbœ ^Re þhšwMK Dcv`vb þþ½ mij Dcv`vb MÖnY I Aegy³ KiþZ mŋg| GB Aegy³ Dcv`vbm~n Avevi Drcv`K mg~n e"envi KiþZ cvþi| (GB `vþb mnvqZvKvix D`vniY Ges Lv" Pµ I Lv" wkKj, Lv" wcivwgW BZ"vw`i e"vL"v cÖ`vb Kiþeb)|

### evsjvþ`þki Db¥y³ Rjvkq Avevm

evsjvþ`k `ywU e,,nr b`x M½v I eªþcyþli AeevwnKvq Aew`Z weþkli e,,nËg e-Øxc| GQvovl þQvU eo cÖvq 250wU b`-b`x Gþ`þki ga" w`þq cÖevwnZ| G mg` — b`-b`xi AeevwnKvq AmsL" nvli, evlo, wej, Lvj Aew`Z| G Rjvf~wg mg~n Ges GLvbKvi AmsL" cÖvYx I Dw™ç` mwæšwjZfvþe GKwU Abb" Ges D" P Drcv`bKxj grm" Avevm`j ^Zix KþiþQ| gy³ Rjvf~wgi cÖavb grm" Avevm`jmg~n t 1) eo b`x mg~n; 2) kvLv I Dcb`xmg~n; 3) Lvj; 4) nvlo, evlo, wej; 5) c-vebf~wg; 6) b`x I weþji Mfxi Ask mg~n (Kzg, Kzqv BZ"vw`)| eo b`-b`x mg~n eþ½vcmvMþi cwZZ nþq GKwU DcKzjeZx© Lvwo (Estuary) þjvbv cvwbi (eªvwKk lqvUvi) GjvKv m,,wó KiþQ|

evsjvþ`k Db¥y³ Rjvkþqi grm" mæúþ` mæú`kvjx nlqvi g~þj iþqþQ Gþ`þki Rjvf~wg mg~þni ^ewPÍZv, Gi þgšmygx ^ewPÍZv Ges cvwb cÖevn BZ"vw`| ^ewPÍc~Y© Avevm`j, cvwb cÖevn Ges e,,wócvþZi þgšmygx avivevwnKZvB Db¥y³ Rjvf~wgi grm" mæúþ`i cyY:fiþbi cÖavb KviY| GQvovl Gþ`þk cÖvß gvþQi cÖRvwZmg~n LyeB mwnòz cÖK...wZi|

i® I elv© þgšmyþg gvþQi AvPvi-AvPiY wKsev Zvþ`i wewfbœ Avevm`j e"envþi ZviZg" þ`Lv hvq| GB cv\_©K" Zvþ`i RxebPµ I

e,,wxi wewfbœ avc‡K cÖfvweZ K‡i| Avevi GB wfbœZvB grm”  
 Avni‡Yi Dcvq Ges cÖwµqv I wbav©iY K‡i \_v‡K| gvbyl GB  
 wfbœZv‡K wewfbœfv‡e Kv‡R jvwM‡q gvQ a‡i \_v‡K|

**Db‡y³ Rjvkq Avevm´’j‡i †kªYx web´vm I Zv‡i´ewkó t**

Avevm´’j	‡gŠmygx ´ewkó”	i®‹ ‡gŠmy‡g Ae´’v	elv©Kvjxb Ae´’v
cÖavb b`-b`x mg~n	mviv eQi cvwb _v‡K Ges cÖevn we´´vgvb	‡Kejgv‡ gvSvwi ai‡bi b`x, †Kvb †Kvb †¶‡‡† †QvU b`xi mv‡_ mshy³ _v‡K	Zxi Qvw‡‡q e´vcKfv‡e we´ Z.....wZ jvf K‡i, c-vebf~wg Lv‡j-wej-nvlo BZ´vw`i mv‡_ mshy³ nq
gvSvwi b`x mg~n	AwaKvs‡k mviv eQi cvwb _v‡K Ges cÖevn we´´vgvb	c-vebf~wg, wej- nvli BZ´vw`i mv‡_ ms‡h‡vM nvivq, eo b`-b`xi mv‡_ mshy³ _v‡K	Zxi Qvw‡‡q we´ Z...wZ jvf K‡i, c-vebf~wg, wej- nvli BZ´vw`i mv‡_ mshy³ nq
‡QvU b`x	g~jZ: †gŠmygx	c-vebf~wgi mv‡_ ms‡h‡vM _v‡K bv, Ab´vb´´ b`-b`xi mv‡_ ¶¶xY †h‡vMv‡h‡vM _v‡K ev _v‡K bv  †Kvb ‡Kvb †¶‡‡† Zj‡‡k Pvlvev` nq	Zxi Qvw‡‡q cÖevwnZ nq  c-vebf~wg, wej- nvli, Lv‡j BZ´vw`i mv‡_ mshy³ _v‡K  b`-b`xi mv‡_l ms‡h‡vM _v‡K
Lv‡j	g~jZ: †gŠmygx	c-vebf~wg ‡_‡K wew”Qbœ n‡q c‡o, b`-b`xi mv‡_ ¶¶xY ev †Kvb †h‡vMv‡h‡vM _v‡K bv  †Kvb †Kvb †¶‡‡† Pvlvev` nq	Zxi Qvw‡‡q cÖPzi cvwb cÖevwnZ nq, b`x, c-vebf~wg Ges wej-nvl‡ii mv‡_ mshy³ nq
Wej	g~jZ: mvsevrmiK	AvK...wZ †QvU n‡q hvq, Lv‡j, b`x BZ´vw` †_‡K c,,_K n‡q c‡i  Dchy³´´vb mg~‡n Pvlvev` nq ev cwZZ	cÖPzi cvwb _v‡K, b`-b`x Lv‡j ev Ab´vb´´ we‡ji mv‡_, c-vebf~wgi mv‡_ mshy³ nq

		<u>v†K </u>	
nvli	g~jZ: †gŠmygx	†ekxi fvM AskB iŵK†q hvq, Pvlvev` , †MvPviY Kv†R e`envi nq ev cwZZ <u>v†K</u> , AwZw_ cvwLi Avev` 'j wnmv†e e`eüZ nq	cÖPzi cvwb <u>v†K</u> , b`-b`x, Lvj ev Ab`vb` nvlo ev c-vebf~wgi mv†_ mshy <sup>3</sup> <u>v†K </u>
c-vebf~wg	†gŠmygx	i®€, g~jZt Pvlvev` nq wKQy cwZZ <u>v†K</u>	eb`v nq Ges mKj Rjvf~wgi mv†_ GKwîZ n†q hvq
evli	mvsevrmiK	Ab`vb` Rjvf~wg †_†K c,,_K, avi w`†q Pvlvev` nq (†ev†iv, exRZjv BZ`vw`)	AwaKvsk †††† c,,_K  wKQy evli wej ev c-vebf~wgi mv†_ hy <sup>3</sup> n†q c†il
Kyqv/cvMvi	g~jZ mvsevrmiK cvwb <u>v†K</u>	c,,_K, Pvlvev` nq bv, Z†e †ekxi fvM ††††B gvQ aivi Rb` iKv†bv nq	b`x Lv†ji ev we†ji mv†_, c-veb f~wg BZ`vw`i mv†_ GKwîZ n†q hvq

gv†Qi PjvP†ji my†hvM myweav RjR Avev†mi GKwU „i“Zjc~Y©  
welq| Avevm cÖK...wZi mv†\_ mv†\_, cvwbi MfxiZvi wfbœZv, RjR  
AvMvQv BZ`vw`| Avevm cÖK...wZ ^ewP††i „i“Zjc~Y© Ask|

Db¥y<sup>3</sup> Rjvk†qi cvwbi n«vm-e,,wxi †gŠmygx aviv grm` mαú†`i  
`'xwZkxjZv, Drcv`b ^ewP† eRvq ivLv Ges grm` Avni†Yi Dcvq  
wbav©iY K†i v†K| elv©i cÖavb ^ewkó n†"Q cÖPzi e,,wócvZ Ges  
eb`v-wecyj cvwb cÖevn| GB ^ewkó" Rjvf~wg mgy†ni we` Z...wZ  
Ges RjgMœ vKvi mgq Ges gvm grm` Drcv`†bi wbqvgK| †`Lv hvq,  
†h erm†ii †ekx eb`v nq †mB ermi gv†Qi Drcv`b †ekx nq|

**†gŠmyg, gv†Qi Avev†mi ^ewkó" Ges gv†Qi ^RweK cÖwZwµqvi  
Zzjbvg~jK wP† t**

†gŠmyg/gv m	Avev†mi AvK...wZ	Avev†mi ,Yv,Y/Ae`'v	gv†Qi ^RweK cxwZ	gvQ aivi cxwZ	gš—e`
1  i®€ †gŠmyg	Avevm,wj msKzwPZ	Zvcgvîv Kg, `~wLZ cvwb,	gv†Qi mKj cÖKvi	gvQ aivi Pvc	gvQ aiv Ges cÖvK...wZK

(wW†mα^i- †de <sup>a</sup> qvix)	nq, GKwU †_†K Ab" wU c, _K n†q c†i, MfxiZv K†g hvq, A†bK Rjvf~wg iWK†q hvq	A†bK Rjv gvQ ev†mi A†hvM" n†q c†i	^RweK wμqv w` n «vm cvq, gvQ b`x, Mfxi wej BZ"vw` mvsevrmi K Rjvq Avk <sup>a</sup> q MÖnY K†i	m†ev©"P  cvwb †m†P gvQ aiv nq  cÖvq me Rjvf~wg †_†KB gvQ a†i †djv nq	g,,Zz"i nvi †e†o hvq
2  elv©c~e© ev ii" (gvP©-†g)	e,,wó ii"i mv†_ mv†_ RjvqZb evo†Z _v†K	cvwbi cwigvY I Zvc gvlv evovi mv†_ mv†_ cvwbi ,bv,b fvj n†Z _v†K	%oRweK Kvhv©ejx cybivq ii" nq, †eu†P _vKv gv†Qiv cÖRbb I Lv†"i Rb" Awfevmb ii" K†i	gvQ aivi cwigvY K†g hvq, Z†e gv†Qi Awfevmb c†_ -Lv†j gvQ aiv nq hv LyeB ¶wZKi  Lvj,wj†Z AvovAvwo eva †`qv nq	gv†Qi Awfevmbi Rb" Lye m†e`bKxj mgq  Drcv`bKxjZv Ges Rxe%ewP† A†bKvs†k Gi Dci wbf©i K†i
3  elv© (Ryb-AvMó)	Rjvf~wg mg~n AvqZb Ges MfxiZvq m†ev©"P chv©†q †cŠQvq  A†bK GjvKv RjgMœ n†q hvq	cvwbi ,bv,b Lye fvj _v†K, cÖPzi Lv†"c~Y©  gv†Qiv G mgq cÖRbb, Lv" MÖnY I e,,wxi Rb" cÖPzi RvqMv cvq	gv†Q†i meai†Yi ^RweK Kvhv©ejx m†ev©"P chv©q †cŠuQvq (Awfevmb cÖRbb, Lv" MÖnY e,,wx, BZ"vw`)	gvQ aiv †e†o hvq, we†kl K†i c-vweZ cÖjvKv I Ab"vb" GjvKvq  wewfbœ ai†Yi miÄvg e"envi nq  †ekxi fvM Rjvq cÖ†ekvwaK vi Db¥y <sup>3</sup> _v†K  ¶wZKi miÄvg e"envi nq	grm" mαú†i cyb:fi†bi DrK...ó mgq, wKŠ' gvQ aivi d†j Zv A†bKvs†k evavMÖ" ' nq
4  elv© cieZx©Kvj (Post monsoon) †m†pα^i- b†fα^i)	RjvqZb Lye `a"Z K†g †h†Z _v†K, A†bK Rjv wew"Qbœ n†q hvq	G mgq cvwbi ,bv,b fvjB _v†K	gv†Qiv G mgq Zv†i i© †gŠmy†gi Avk <sup>a</sup> q`j wej, b`x†Z P†j hvq	wej-b`x†Z †divi c†_ - Lv†j †ekx cwigv†b gvQ aiv nq  Lv†j AvovAvwo eva †`qv nq	grm" mαú†i cybtfiY wbf©i K†i gv†Qi Awfevmb KZUv mdj nq Zvi Dci

*Drm"t Rbve †gvL†jmyi ingvb, wmGbAviGm*

## gvṫQi Awfevmb Ges e,,wx

Db¥y³ Rjvkṫqi gvQṫK mvaviYfvṫe `yB fvṫM fvM Kiv hvqt- 1) mv`v gvQ- hviv g~jZ cÖevngvb Rjv ṫhgb b`xṫZ evm Kṫi; Ges 2) Kvṫjv gvQ- hviv w`i cvwb ṫhgb wej, ṫṫṫK evm Kṫi| cÖRbb FZzṫZ mv`v gvQ,ṫjv ṫm<sup>a</sup>vṫZi Dṫëvw`ṫK Awfevmb Kṫi msṫhvm Lvj-b`x BZ`vw` nṫq c-vebf~wg, wej, nvlo BZ`vw`ṫZ hvq| Aciw`ṫK Kvṫjv gvQ g~jZt weṫjB esk e,,wx Kṫi Ges eo nq|

grm` %oeÁvwbKMb gvṫQi `yB aiṫbi Awfevmb eY©bv KṫiṫQb| 1) ṫKej gvĭ b`xi gṫa` Aby %o`N© Awfevmb, 2) cvwk!©q Awfevmb - b`x ṫ\_ṫK Lvj-weṫj, c-vebf~wgṫZ Ges Lvj-wej ṫ\_ṫK b`xṫZ| cÖwZ aiṫYi Awfevmṫbi Rb` gvṫQi c,,\_K c,,\_K AvPiY I cwiṫeṫki c,,\_K c,,\_K DĭxcK RwoZ| ṫde<sup>a</sup>“qvix ṫkl ṫ\_ṫK gvṫP©i cÖ\_gw`ṫK ṫ`ṫki wewfbœ b`-b`xi cvwb e,,wx ṫcṫZ ĩi“ Kṫi| GB mgṫqB Zvcgvĭv e,,wxi mvṫ\_ mvṫ\_ gvṫQi wW<sup>α</sup>vby Ges ĩvby cwicZv AR©b KiṫZ ĩi“ Kṫi Ges gvṫQiv cÖRbb AwfcÖqvm/Awfevmb ĩi“ Kṫi| elv©i ĩi“ṫZ (GwcÖj-ṫg) cÖvq me gvQB AvswkK ev c~Y© cwicZv AR©b Kṫi| evsjvṫṫk i“B RvZxq gvṫQi cÖavb cÖRbb ṫṫĭ,ṫjv nṫ”Q e<sup>a</sup>pcyĭ bṫ`i Dcṫii Ask (Avmvṫgi cve©Z` GjvKvi wbKUeZx©), M½vb`x, dviv`v ev uṫai bxṫPi Ask Ges eivK b`xi Dcṫii Ask (Tsai and Ali, 1985) Ges nvj`v b`x (PÆMÖvg)|

wKQy cÖRvwZi gvQ Ges wPswoi cÖRbṫbi Rb` ṫjv bv ev AvswkK ṫjv bv cvwbi cÖṫqvRb| G RvZxq gvQ Ges wPswoi DcKzjxq ṫjv bv cvwb AĀṫj Awfevmb Kṫi \_vṫK| Gṫ`i wKṫkvi cÖRb¥ (Juvenile) b`x cṫ\_ Awfevmb Kṫi Lv` mg,,x wej I c-vebf~wg GjvKvq Pṫj Avṫm Ges cvwb Kṫg hvlqvi AvM ch©š— ṫmLvṫbB \_vṫK, eo nq| elv©i cvwb Kgvi mvṫ\_ mvṫ\_ i“B RvZxq gvQ I wPswoi b`xṫZ Pṫj hvq| wPswoi wecwizagx© Awfevmb Kṫi \_vṫK Bwj| GB gvQwU mvgyw`<sup>a</sup>K cwiṫeṫk evm Kṫi wKš` cÖRbṫbi mgq GwU b`xi -<sup>^</sup>v`ycvwb GjvKvṫZ Pṫj Avṫm|

## cÖwZṫeṫki KvH©KvwiZv eRvq ivLṫZ nṫj -

1. cÖwZṫeṫki Dcv`vb, wjṫK iṫv KiṫZ nṫe|
2. ṫwZMÖ` Dcv`vbm g~nṫK cyYti“xvi KiṫZ nṫe|
3. cÖwZṫeṫki Dcv`vbm g~n AṫzYœœ ivLṫZ nṫe|
4. cÖwZṫeṫki m<sup>á</sup>` mg~ṫni wePṫY e`envi wbwöZ KiṫZ nṫe|

## Rxe `ewPĭ



wewfbœ Drþmi ev Avevþmi RxeKzþji ^ewPÍþKB msþ¶þc Rxe ^ewPÍ ejv hvq, þhgb eb, mvgyw`aK, b`-b`x ev Ab`vb` RjR cwiþek, þhLvþb H mg` — Rxel GKwU Ask| Avevi GKwU Rxþei GKvwaK msL`vB D³ Rxþei ^ewPÍ| þhgb GKwU Rjvkþq GKvwaK cÖRvwZi gvQ \_vþK| GB ^ewPÍ nþZ cvþi GKB cÖRvwZi gþa`, cÖRvwZ þ\_þK cÖRvwZþZ ev GK cÖwZþek þ\_þK Ab` cÖwZþeþki gþa`|

### Rxe ^ewPÍli cvi` úwiK mæúK© gy³ wZbwU chv©q

1. þRþbwUK %ewPÍ t GKB cÖRvwZi wewfbœ individual Gi gvþS eskMZ Dcv`vþbi cv\_©K`B þRþbwUK ^ewPÍ| A\_v©r GKB cÖRvwZi gþa` Rxþbi þh cv\_©K` \_vþK| þhgb Dw™çþ`i wewfbœ aiY (GKB cÖRvwZi)| cÖRvwZwU nvwiþq bv þMþj| þRþbwUK ^ewPÍ nvwiþq þþZ cvþi|
2. cÖRvwZ ^ewPÍ t mvaviYfvþe GKwU cÖwZþeþk cÖvYx | Dw™çþ`i cÖRvwZi þh wfbœZv hv wfbœ wfbœ cÖRvwZ þ`Lv hvq ZvþKB cÖRvwZ ^ewPÍ ejv nq| GUv Avevi þKvb weþk| GjvKvi cÖRvwZi msL`v Ges Gi cÖvwß | eywSþq \_vþK|
3. BþKvwmþ÷g ^ewPÍ t þKvb GKwU AÁþji wewfbœ aiþYi BþKvwmþ÷þgi Dcw`wZþK eywSþq \_vþK| þhgb GKwU GjvKvþZ cvnvo-ebvÁj þhgb \_vþK Avevi cvkvcvkw \_vþK b`x-bvjv, Lvj-wej BZ`vw`| cÖwZwU BþKvwmþ÷þgi Avevi wfbœ wfbœ DcKvwiZv \_vþK|

### Rxe ^ewPÍli úgwKmg~n

- 1) Avevmf~wgi Ae¶q nlqv ev bó nþq hvlqv
- 2) gvÍvwi³ AvniY Ges e`envi
- 3) RbmsL`vi AvwaK` (gvbyl)
- 4) `~IY
- 5) evBþii cÖRvwZi AbycÖþek
- 6) weþk|i Rjevqyi cwieZ©b

### msi¶Y

msi¶Y ejþZ þKvb cÖvK...wZK mæú` ev cwiþeþki gvÍv eRvq þþL e`envi, weP¶Y e`envi ev cÖþqvRþb mvgwqKfvþe e`envi eÜ ivLv ev cwiþek mnbxq AvniY cxwZ Aeja`b Kivi gva`þg H mæúþ`i fwel`r e`envi Kivi myþhvM m,,wó Kiv eySvq|

cÖwZtek hZ tekx ^ewPÍc~Y© nq GwU ZZ tekx ^'vqx nq| my`xN©  
mgq aþi þKvb cÖwZteþki DcKvwiZv þcþZ nþj GwUþK ^'vqx  
(Stable) ev AcwieZ©bxq KiþZ nþe| Lv`` wkKj, Lv`` ZvwjKv ev  
cÖwZteþki wewfbœ wµqvwi gva`þg cÖvYx ev Dw™ø`Kzj GþK  
Acþii Dci cÖZ`¶ ev cþiv¶fvþe wbf©ikxj| þm Rb`B þKvb GKwU  
cÖRvwZ hw` wejyß nþq hvq Zþe Ab` Avil AþbK cÖRvwZ wejywßi  
w`þK þþZ \_vþK|

## Awaṭekb-5

### grm" mǎúṭ`i mn-e"e" `vcbvi mǎṭve" †KŠkj Ges mvsMVwbK KvVvṭgv

**f~wgKv t** c~YtfiYkxj cÖvK...wZK mǎú` e"e" `vcbvi †¶ṭǎ evsjvṭ`ṭk  
mn-e"e" `vcbv eZ©gvṭb cÖvavb" cvṭ"Q| GKB mvṭ\_ mǎú`  
e"e" `vcbvq AskMÖnYg~jK cxwZi cÖeZ©b Ges `vbxq msMVbṭK  
cÖvavb" †qv mn-e"e" `vcbvṭK Avil †Rvo`vi KṭiṭQ| Z\_vwcl G mǎú`  
e"envṭii AwaKvi GLbl GKwU eo cÖkœ| †hgbt Kviv AskMÖnY  
Kiṭe? wK aiṭbi `vbxq msMVb G mg` — mǎú` fvjvṭe e"e" `vcbv  
KiṭZ cviṭe Ges Mixeṭ`i AwaKvi wbwðZ Kiṭe? Kviv Zvṭ`i Rxeb-  
RxweKv l cywói Rb" G mg` — mǎúṭ`i Dci mǎú~Y©i"ṭc wbf©ikxj? G  
Awaṭekṭb G aiṭY mn-e"e" `vcbv ms`vmg~ṭni MVb KvVvṭgv  
wbṭq AvṭjvPbv Kiv nṭe|

GB Awaṭekṭb wmweGdGg-1l 2 cÖKí Ges GKB aiṭbi Ab"vb"  
cÖKṭii AwfÁZvi AvṭjvṭK G aiṭbi mn-e"e" `vcbv msMVb Gi  
KvVvṭgv wbṭq g~jZ AvṭjvPbv Kiv nṭe|

### Dṭik" t GB Awaṭekṭbi cṭi AskMÖnYKvixMY

1. Rjvf~wg mn-e"e" `vcbvi wewfbœ GṭcÖvP eY©bv KiṭZ Ges  
e"vL"v KiṭZ cviṭeb;
2. Rjvf~wg mn-e"e" `vcbvq mvsMVwbK KvVvṭgv eY©bv KiṭZ  
cviṭeb;
3. Gṭc· MVṭbi cxwZ e"vL"v KiṭZ cviṭeb|

**mgq t** 1 N>Uv|

**cxwZ t** gy<sup>3</sup> AvṭjvPbv, †e<sup>a</sup>Bb÷<sup>a</sup>wg©s, †QvU `jxq KvR Ges  
Dc" `vcbv|

**DcKiY t** wd~cPvU© †ccvi, wd~cPvU© †evW©, †nvqvBU †evW©,  
gvKv©i|

**cÖwμqv t**

**avc 1.** mnvqZvKvix welqe" e"vL"vi gva"ṭg AvṭjvPbv ii" Kiṭeb|  
wZwb evsjvṭ`ṭki Dbṭy<sup>3</sup> Rjvkq e"e" `vcbvi avivevwnKZv AvṭjvPbv  
Kiṭeb Ges mn-e"e" `vcbvi ,i"Z; Ges cÖṭqvRbxqZv e"vL"v Kiṭeb|  
Gici mnvqZvKvix Ges mKj AskMÖnYKvix wgṭj mn-e"e" `vcbvi

KZ,wj ḠcÖvP Av̄jvPbv Kīeb Ges msMVb KvVv̄gvi GKwU  
ZvwjKv ^Zix Kīeb|

**avc 2.** †QvU `jxq Kv̄†Ri gvā†g AskMÖnYKvixMY Zv̄†i `„wó†Z  
Dc†hvMx GKwU KvVv̄†gcv cxwZ wbev©Pb K†i Zv ēvL̄v Kīeb  
Ges GwU wbev©Pb Kivi c†¶ hyw<sup>3</sup> cÖ`k©b Kīeb| Gici cÖ†qvRbxq  
†¶† G†c· MV†bi KvVv̄†gcv eY©bv Kīeb| cÖwZ`†ji cÖwZwbwa  
eo`†j GB `jxq KvR Dc`vcb Kīeb| cÖkœ-DËi, Av̄jvPbv Ges  
mnvqZvKvix Zvi gZvgZ cÖ`v†bi gvā†g Awa†ekb †kl Kīeb|

**grm" mǎú†`i mn-e"e" `vcbvi mǎve" †KŠkj Ges mvsMVwbK  
KvVv†gv**

f~wgKv t 1950 Gi ivwó<sup>a</sup>q G"v± Gi AvlZvq Rjgnvjmg~n miKvwi `L†j Avbv nq Ges †iKW© Kiv nq| †mB mgq †\_†K mKj Rjgnvj f~wg gš¿Yvj†qi Aax†b b" — nq Ges GB gš¿Yvjq †Rjv I \_v bv cÖkvm†bi gva"†g Rjgnvjmg~n e"e" `vcbv K†i Avm†Q BDwbqb cwil`| GB e"e" `vcbv n†"Q ivR^ Avqg~jK e"e" `vcbv| G†Z mǎú†`i †šZ ev ^RweK Dbœqb Ges Mixe †ckvRxwe†`i AwaKvi†K „i"Zi †`qv nq bvB| hvi d†j GB mg — cÖvK...wZK mǎú` †UKmBfv†e e"eüZ n†Z cv†iwb|

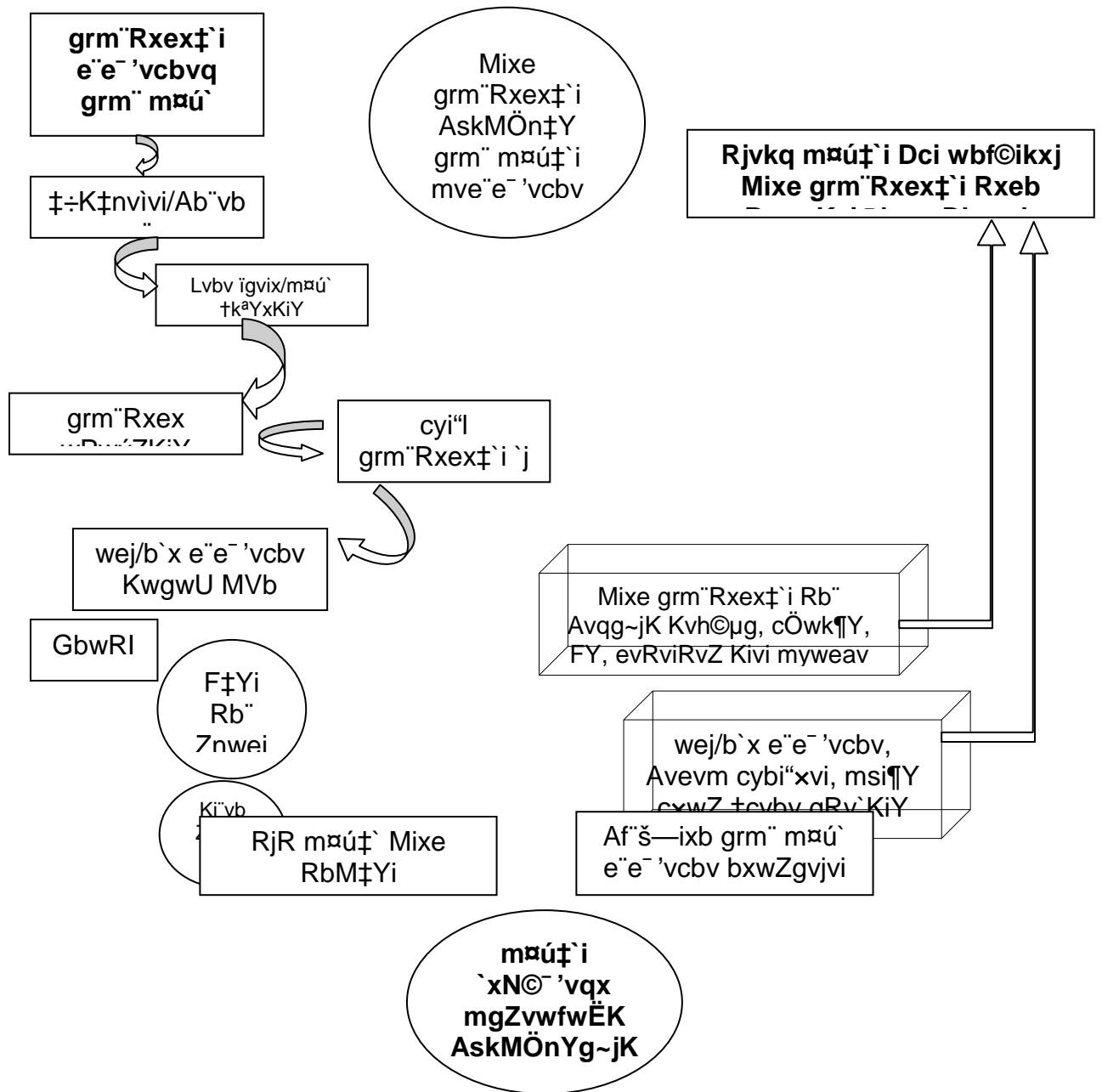
cieZx©†Z cwiw" `wZ Abyaveb K†i miKvi wewfbœ mg†q wewfbœ e"e" `v MÖnY K†i†Q, wKš' bvvv Kvi†b †m,wj mǎú` msi¶Y ev †UKmBK†iY f~wgKv ivL†Z cv†i bvB| †hgb 1995 mv†j miKvi Db¥y<sup>3</sup> b`-b`x BRviv ewntf~©Z wnmv†e †NvlYv K†ib †hb Mixe grm"Rxexiv grm" Avni†Yi gva"†g Zv†`i RxweKv AR©b I cywói Pvwñ`vc~iY Ki†Z cv†i| wKš' ev — †e eZ©gv†b H mg — Rjgnvj ` `vbxq cÖfvekvjx†`i `L†j P†j †M†Q| hviv g~jZ Agrm"Rxex| Avevi †UKmB e"e" `vcbvil cÖeZ©b Kiv hvq bvB|

G mg — we†ePbvq eZ©gv†b Db¥y<sup>3</sup> Rjgnvj mg~†ni mn-e"e" `vcbv cÖeZ©†bi D†i†k" wewfbœ ms" `v I cÖKí KvR Ki†Q| GB cxwZ µ†g KvH©Ki cÖgvwYZ n†"Q Ges RbwcÖqZv AR©b Ki†Q| G cxwZ†Z wewfbœ AskMÖnYg~jK KvH©µg cwiPvwjZ n†"Q| Avevi mǎú†`i cÖK...Z AwaKvi Mixe grm"Rxex†`i G K\_v `^xKvi K†i KvH©µg MÖnY Kiv n†"Q| Z\_vwcl G ai†bi mn-e"e" `vcbvi ifc-†iLv wK n†e? Kviv, wKfv†e AskMÖnY Ki†e? miKvwi ms" `vmg~†ni f~wgKv wK n†e BZ"vw` cÖ†kœi mgvavb mǎú~Y©if†c nq bvB| bx†P wewfbœ cÖK†ii AwfÁZvi Av†jv†K KZ,wj G†cÖvP Av†jvPbv Kiv nj| Ae" `vi †cÖw¶†Z ` `vbxq mKj mswk-óiv wKfv†e KvR Ki†eb †mB wmxvš — wb†eb|

**†KŠkj 1 t grm"Rxex†`i gva"†g grm" mǎú†`i e"e" `vcbv**

GB †KŠk†ji †¶†i LvbvwfwĚK igvwii I mǎú` †k<sup>a</sup>YxKi†Yi gva"†g †óK†nvivi wPwýZ Ki†Z n†e Ges cÖK...Z grm"Rxex†`i wPwýZ Ki†Z n†e| †Kejgví cyi"l grm"Rxex†`i wb†q GbwRliv `j MVb Ki†e| GB `jmg~†ni cÖwZwbwaiv mn-e"e" `vcbv KvH©µg wbav©iY Ki†eb - GB `jxq cÖwZwbwaivB wej ev b`x e"e" `vcbv KwgwU MVb Ki†e| mswk-ó GbwRli f~wgKv n†e †ckvRxex†`i AskMÖnY†K DrmvwnZ Kiv, cÖ†qvRbxq mnvqZv (cÖwk¶Y, FY, cwiKíbv ev — evqb

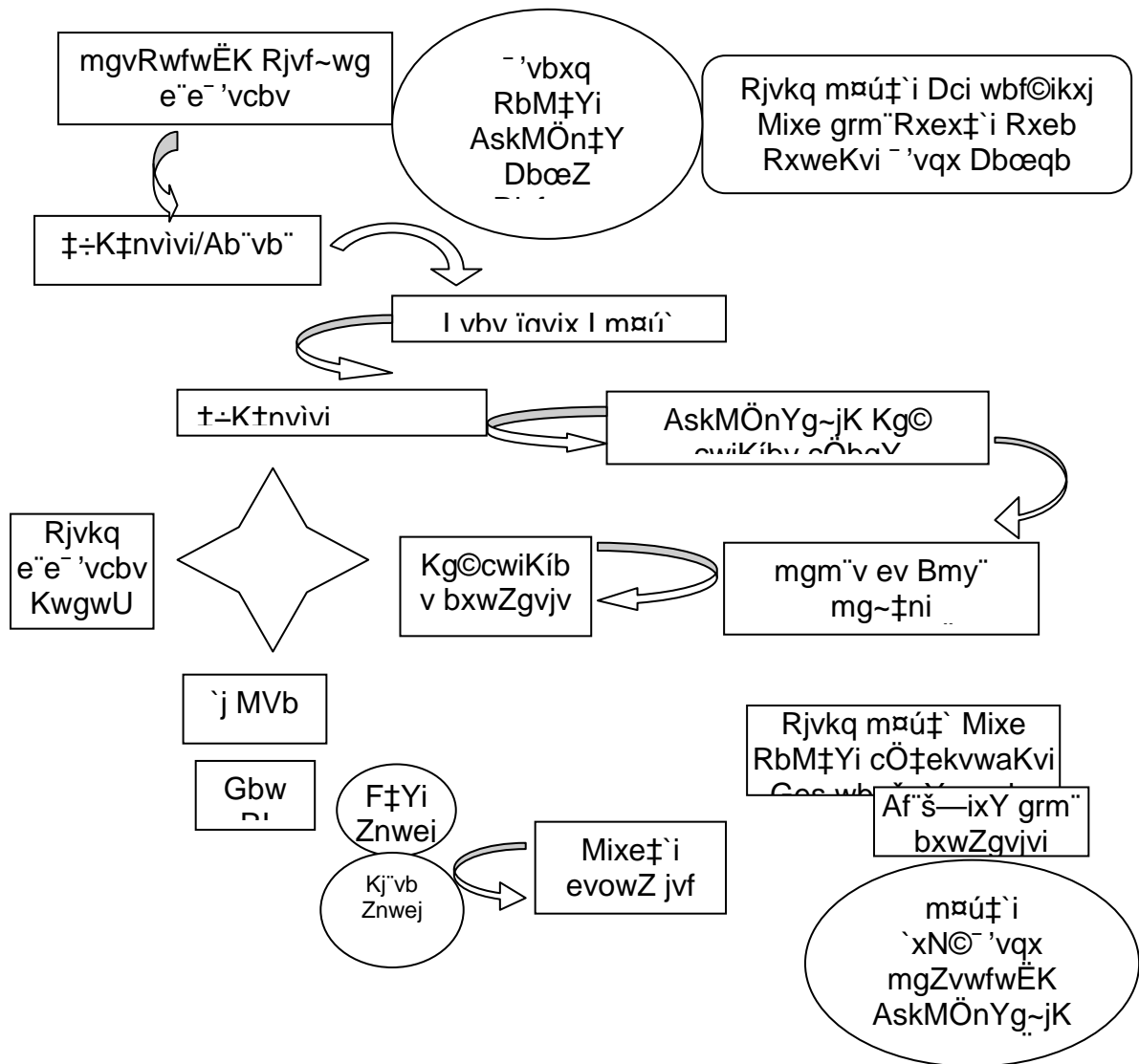
BZ`vw`) cÖ`vb Kiv| grm` wefvM I lqvì©wdk †m›Uvi H mg` —  
KwguU†K e`e` `vcbv Kvwimwi mnvqZv cÖ`vb Ki†e|



### G†cÖvP 2 t Rjvf~wg mn-e`e` `vcbv

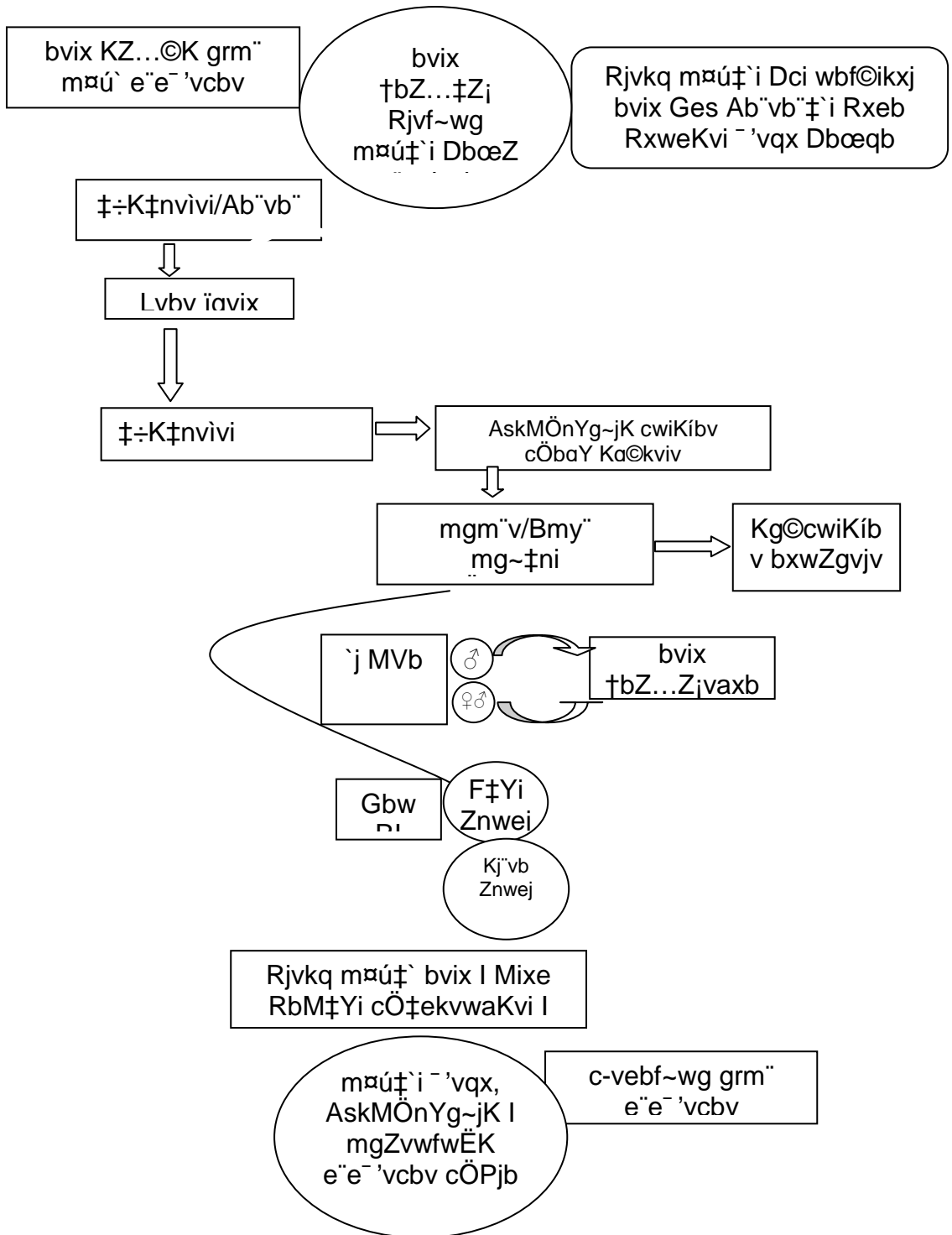
†÷K †nvivi†`i we†k-l†Yi gva`†g GB wØZxq †KŠkwUi iï` n†e|  
RxweKvi wfwĚ†Z ` `vbxq mǎú` e`enviKvix†`i wb†q AcÖvwZóvwBK  
`j MVb Kiv n†e| GB RxweKvwfwĚK `j mg~n Rjvf~wgi mgm`v  
we`Z...ZKiY, mgm`vmg~n we†k-l†Yi gva`†g mgvavb wbi`cb Ki†e,  
Zviv mǎçve` cÖfve wb†ql Av†jvPbv Ki†eb| Gfv†eB GKwU  
RjvkqfwĚK Kg©cwiKíbv cÖYqb Kiv n†e| RxweKvwfwĚK  
†÷K†nvivi `jmg~n †\_†K GB Kg© cwiKíbv ev` —evq†bi Rb` wej/b`x

e"e" 'vcbv KwgwU MVb Kiv n|e| tckvwfwEK `j mg~n|K GbwRliv tKjgvl gvQ aiv wbqš;|Yi t|t| cwic~iK wnmv|e mnvqZv cÖ`vb Ki|e|



**G|cÖvP 3t bvix KZ...©K grm" m|u|` e"e" 'vcbv (wm-we-Gd-Gg cÖK|`i e"e" 'vcbv n|Z |bqv)t**

GB Z...Zxq |KškwU|Z mKj myd|fvMx|`i we|ePbvq |bqv nq, wKš' Gi gv|S bvix myd|fvMx|`i cÖvavb" |`qv nq, Zv|`iB wmwel MV|bi g~j f~wgKvq ivLv nq| G|t| GbwRliv gwnjv `j Ges gwnjv I cyi"l wgk<sup>a</sup> `j MVb Ki|e| mgv|Ri Ab"vb" myd|fvMxiv KwgwU |g<sup>^</sup>vi ev Dc|`óv wnmv|e AskMÖn|Yi my|hvM cv|eb| GB |KškwU|K c~|e© eYx©Z 1 bs I 2 bs |Kšk|ji wgk<sup>ab</sup> ejv hvq| GLv|b |Kšk| 2 G eYx©Z cwiK|bv cÖbqb cxwZ AbymiY Kiv n|e, wKš' GbwRlimg~n gwnjv|`i `|Zv e,,wxi Rb" mivmwi mnvqZv cÖ`vb Ki|eb |hb Zviv m|u|` e"e" 'vcbv msMV|bi |bZ...|Z; \_vK|Z cv|ib|



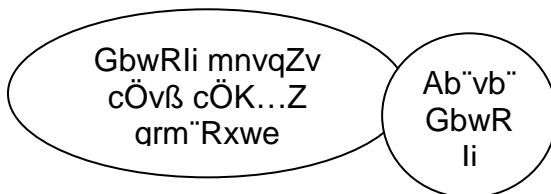
**Rjvkq †Kw`ªK mn-e`e`'vcbv msMV†bi mǎú†`e` KvVv†gv t**

c~†e© eYx©Z †h †Kvb GKwU wmweGdGg G†cÖvP Abyhvqx  
 `vbxq Rjvf~wg mǎú†`i e`e`'vcbv Ki†Z PvB†j `vbxq msMVb M†o  
 Zzj†Z n†e hv fwel`†Z H GjvKvi Rjvf~wg mǎú` e`e`'vcbv †††  
 GKwU cÖwZôv†b i`c jvf Ki†e Ges `vqx n†e| G R†b` wewfbœ  
 ai†bi mvsMVwbK ifc Av†Q| GB ifc†K GLv†b KvVv†gv ejv n†Q  
 Ges Aswk`vi GbwRliv Zv†`i GjvKvi Ae`'vi K\_v we†ePbv K†i `vbxq

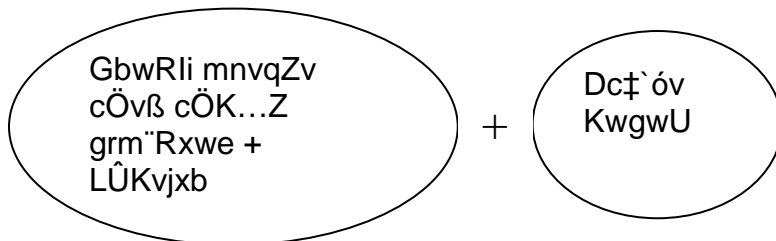


Dwxó t̄jvK̄t̄i wb̄t̄q wb̄t̄R̄t̄i Kv̄t̄Ri Rb̄ GB KvVv̄t̄gv̄mg~n wbev̄©Pb Kīt̄e| GB KvVv̄t̄gv wbev̄©Pb n̄t̄e m̄áú~Ȳ©īt̄c AskMÖnYg~jK| GbwRI-Avīt̄Pm AskMÖnYKvix̄t̄i Zv̄t̄i msMVb M̄t̄o Zz̄j̄t̄Z m̄nvqZv cÖ`vb Kīt̄e| msMV̄t̄bi m`m` msL`v, Kviv, KZ nv̄t̄i m`m` n̄t̄eb Zv wbav̄©iY Kiv n̄t̄e wcGwcwWi mgq A\_ev mvaviY mfvq| bx̄t̄P KZ\_wj KvVv̄t̄gv eȲ©bv Kiv nj, Z̄t̄e Gi evB̄t̄il Ab̄ t̄Kvb KvVv̄t̄gv \_vK̄t̄Z cv̄t̄i hv t̄Kvb wēt̄kl ḠjvKvq ev wēt̄kl cwiw` wZ̄t̄Z fv̄j KvR Kīt̄e|

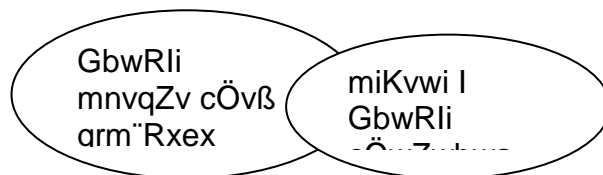
K. cÖ\_g KvVv̄t̄gv̄t̄Z īaygv̄l Mixe grm`Rxex hviv Zv̄t̄i Av̄t̄qi Rb̄ gvQ āt̄i Ḡt̄i wb̄t̄q `j MVb Kiv n̄t̄e Ges Zv̄t̄i GbwRI t̄\_̄t̄K m̄nvqZv (cÖwk̄Y Ges Ab̄`vb̄) cÖ`vb Kiv n̄t̄e| G mg&` — GbwRli m̄nvqZv cÖv̄ß `j t̄\_̄t̄K cÖwZwbwa wb̄t̄q e`e` `vcbv KwgwU MVb Kiv n̄t̄e| Z̄t̄e Ab̄`vb̄ GbwRli m`m` Mixe grm`Rxexivl e`e` `vcbv KwgwŪt̄Z Avm̄t̄Z cv̄t̄i hw` m`m`iv m̄á§Z nq|



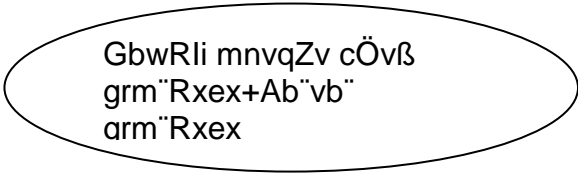
L. wØZxq KvVv̄t̄gv Abyhvqx e`e` `vcbv KwgwŪt̄Z ` `vbxq mKj grm`Rxexiv \_vK̄t̄Z cv̄t̄e| Ab̄`vb̄ mydj̄fvMxiv H e`e` `vcbv KwgwŪt̄K m̄nvqZv cÖ`v̄t̄bi Rb̄ GKwU Dc̄t̄`óv KwgwU MVb Kīt̄Z cv̄t̄il G aīt̄bi GKwU Dc̄t̄`óv KwgwŪt̄Z ` `vbxq Mb̄`gvb̄ e`vw³eM©, ` `vbxq miKvi Ges GbwRI cÖwZwbwaiv \_vK̄t̄Z cv̄t̄il



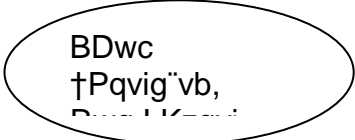
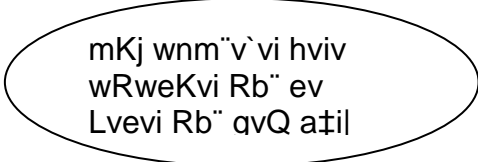
M. Z...Zxq KvVv̄t̄gvŪt̄Z īaygv̄l GbwRI m̄nvqZvcÖv̄ß grm`Rxexiv e`e` `vcbv KwgwŪt̄Z \_vK̄t̄e| Ḡt̄i m̄nvqZv cÖ`v̄t̄bi Rb̄ grm` wefvM, ` `vbxq miKvi Ges GbwRI cÖwZwbwaiv \_vK̄t̄e|



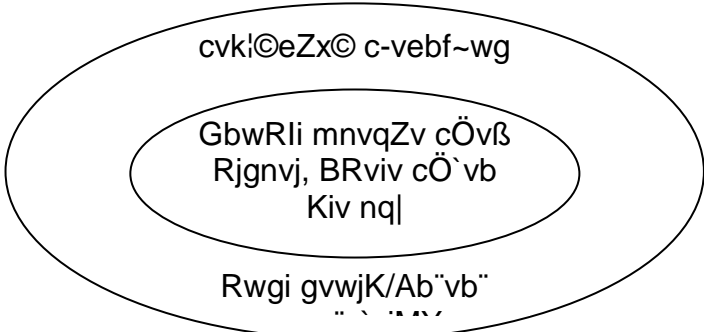
N. PZz\_© KvVv†gv†Z GbwRI mnvqZvcÖvß grm“Rxex I Ab“vb” grm“Rxexiv \_vK†e| Z†e Giv mK†jB Zv†`i RxweKvi Rb” gvQ a†i \_v†Kb|



O. cÂg KvVv†gv†Z `vbxq mKj wnm“v`vi†`i †bqv n†q†Q| hviv gvQ a†i \_v†K (RxweKvi Rb” A\_ev Lvlqvi Rb”) Zv†`i wb†q e“e`vcbv KwgwU MVb Kiv n†e | GB KwgwUi GKwU Dc†`óv KwgwU \_vK†e †hwU MVb Kiv n†e BDwbqb †Pqvig“vb, Rwgi gvwjK†`i cÖwZwbwa, Kzqv gvwjK BZ“vw`| GB KvVv†gvwU we†klK†i c-vebf~wg GjvKvi Rb” Dchy³ n†e|



P. ló KvVv†gv†Z b`x e“ve`vcbv KwgwU MwVZ n†e GbwRI KZ...©K msMwVZ `j mg~†ni Ggb m`m“†`i wb†q hviv mivmwi Rjvf~wguUi Rb” mn†hvwMZv cÖ`vb K†i| mvaviYZ i@x †gŠmy†g b`xi RjvqZb †QvU n†q hvq Avevi elv©q Zv A†bK we`Z...wZ jvf K†i Ges cvki©eZx© Rwgi gvwjKiv AwaKvsk ††††B gvQ a†i \_v†K| grm“Rxex†`i mv†\_ Zv†`i AvMÖ†ni `^v†\_©i wj \_v†K Avevi msNvZI nq| GLv†b mKj wnm“v`vi†`i wb†q GKwU e,,n`vKvi msMVb ^Zix Kiv n†e Ges weGgwm n†e H e,,nr msMV†bi As½ msMVb| GB g†WjwU Db¥y³ Rjvkq mg~†ni Rb” cÖ†hvR” n†e|



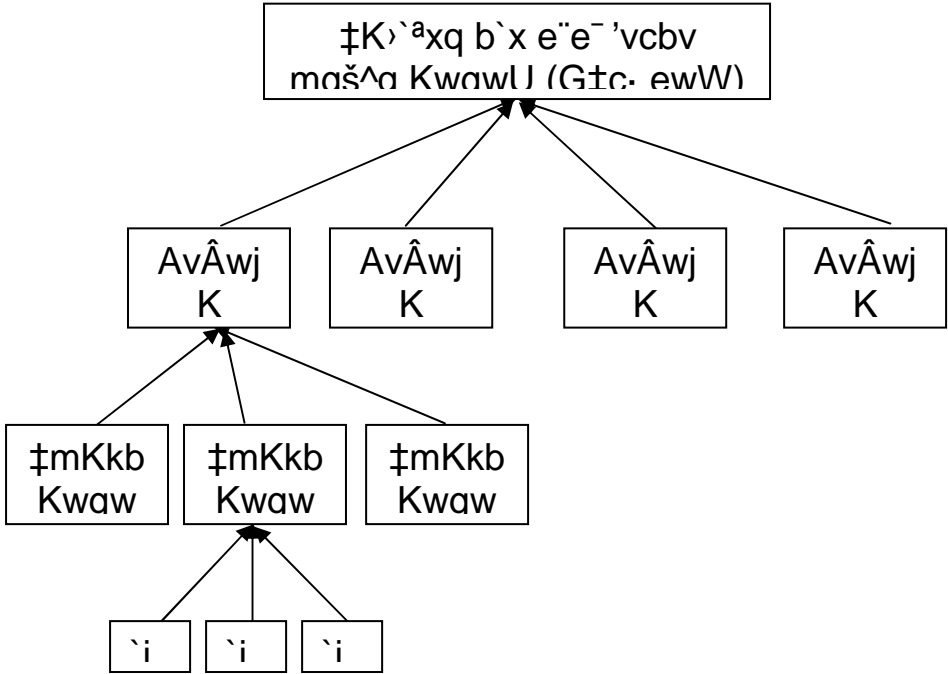
Q. †kl KvVv†gvwU†Z †KejgvĴ GbwRI mnvqZv cÖvß cÖK...Z grm“Rxex†`i †bqv n†e| GB g†WjwU cÖ†hvR” n†e ex ev AvswkK ex Rjvk†qi ††††, †mLv†b grm“Rxexiv miKv†ii LvRbv cÖ`vb K†i, we†j gv†Qi †cvbv gRy` K†i Ges we†ji gvQ aivi AwaKvi †KejgvĴ Zv†`iB Av†Q| Avevi bq vbxwZgvjvf~³ †Kvb b`xi †††† GB g†Wj Dc†hvMx n†Z cv†i|

GbwRIi mnvqZv cyó  
cÖK...Z grm"Rxex

**„Q Rjgnvþji þŕŕŕŕ wewfbœ KwgwUi gvþS msþhvM**

wmweGdGg-2 cÖKþi GKwU „Z;c~Y© dmj nþe þh `vbxq chv©þq þQvU Rjgnvj mg~þni e"e`vcbv m~dj wKfvþe eo eo „Q Rjgnvþji þŕŕŕŕ cÖþqvM Kiv hvq| G e"vcvþi AskMÖnYKvix GbwRI Ges grm"Rxweþ`i mvþ\_ AvþjvPbvi wfwËþZ wewfbœ gþWþji K\_v wPš— v Kiv nþ"Q& hw`l GKwU KvH©Ki gþWj þei nþq Avmv mgþqi e"vcv| „Q Rjgnvþji þŕŕŕŕ cÖwZwU wej ev b`xi Aþþki þŕŕŕŕ c„\_K e"e`vcbv KwgwU \_vKþe|

wmGbAviGm wewfbœ wnm"v`viþ`i wbþq MwVZ KwgwUþZ 50% `jxq m`m` Ges 50% Ab"vb" wnm"v`vi (Ab"vb" grm"Rxwe, Rwgi gvwjK, `vbxq e"w³ BZ"vw`) \_vKþe| GKwU Dcþ`óv KwgwU \_vKþe wewfbœ þckvi cªwZwbwa wbþq BDwbqb cwil`, GbwRI, Ab"vb" þckvRxexiv| wZbwU þmKkb KwgwU wgþj GKwU AvÂwjK KwgwU | AvÂwjK KwgwUi cÖwZwbwaiv MVb Kiþe Gþc·| b`xi þmKkb wfwËK KwgwU | Gþc· KwgwU þiwRóvW© nþe|



Avevi evuPþZ þkLv Zvþ`i GjvKvq wej | b`xi „Q Rjgnvþji þŕŕŕŕ þh KvVvþgvi cÖ—ve KþiþQ, þmLvþb cÖwZwU Rjvi e"e`vcbv KwgwU K-v÷vi Abyhvqx wgwjZfvþe GKwU þRvbj KwgwU MVb Kiþe| GB þRvbj KwgwUi cÖwZwbwaiv DcþRjv ev þRjv chv©þq



Awaṭekb - 6  
**mgwš^Z c-vebf~wg e"e" 'vcbv cwiPq**

**f~wgKv t** c-vebf~wg GjvKvi ev" Zšž GKwU RwUj ṭhŠwMK welq| GLvbKvi wewfbœ Ask ev cÖwµqv,wj GṭK Acṭii Dci wbf©ikxj| mṣúṭ'i GB RwUj ṭhŠwMK Ae" 'v | Gi eûwea e"envi Ges e"enviKvix nlqvi Rb" Gi e"e" 'vcbv| mgwš^Z nlqv cÖṭqvRb| ṭhLvṭb c-vebf~wg GjvKvi mKj Kg©KvŪ Ges mKj aiṭYi wnm"v viṭ'i weṭePbvq wbṭZ nṭe|

G KviṭYB c-vebf~wg GjvKvi wewfbœ Drcv`b e"e" 'v, Gi eZ©gvb Ae" 'v - ṭfšZ | %Re mṣú` | mvgvwRK `„wóṭKvb ṭ\_ṭK myPvi"ifṭc weṭewPZ nlqv cÖṭqvRb| Gi cṭii avc nṭ"Q c-vebf~wg GjvKvi mgm"vmg~n eySṭZ nṭe, Gṭ'i cÖK...wZ Ges e"vwß, Ges mgvavb wPwýZ Kiv| GB ṭmkbwU AskMÖnYKvixṭ'i gvṭS GgbB GKwU aviYv m„wói Dṭṭṭk" cwiKwíZ|

**Dṭṭk" t** GB Awaṭekb ṭkṭl AskMÖnYKvixe„,` t

1. c-vebf~wg GjvKvi ci" úi mṣúK©hy³ wewfbœ Drcv`b e"e" 'v mṣúṭK© aviYv jvf Kiṭe|
2. wewfbœ Drcv`b e"e" 'vi mvṭ\_ mṣúwK©Z mgm"vmg~n wPwýZ | weṭk-IY KiṭZ cviṭeb|
3. eûwe` mṣú` | eûwe` e"enviKvixṭ'i wbṭq c-vebf~wgi GKwU Avil ev" —emṣšZ | mgwš^Z e"envi cwiKíbv cÖYqṭb mṭṭg nṭe|

**mgq t** 1 NṭUv

**DcKiY t** wd~cPvU© KvMR, gvK©vi, wd~cPvU© ṭevW©, ṭnvqvBU ṭevW©|

**cxwZ t** gy³ AvṭjvPbv, ṭeªBb÷wg©s, ṭQvU `jxq KvR | Dc" 'vcb|

**cÖwµqv**

**avc 1.** mnvqZvKvix welqe" 'i cwiwPwZi gva"ṭg AvṭjvPbv ii" Kiṭeb| mnvqZvKvix Gmgq AskMÖnYKvixṭ'i Ávb | AwfÁZv hvPvB Kivi Rb" wKQy cÖkœ Kiṭeb| Gici mnvqZvKvix gy³ AvṭjvPbv cxwZṭZ mgMÖ welqe" ' Zzṭj aiṭeb weṭkl Kṭi f~wgKv, ZĒj | Z\_"vw", mswk-ó welqmg~n Ges **Integrated Floodplain Management (IFM)** Gi cÖṭqvRbxqZvi K\_v AvṭjvPbv Kiṭeb|

**avc 2.** mnvqZvKvix AskMÖnYKvix†i evsjv††ki c-vebf~wg GjvKvi mvaviY mgm~vmg~n I G†i mæçve" mgvavb wPwýZ Ki†Z I wjL†Z ej†eb †QvU `†j| cÖwZ `†ji cÖwZwbwa Zv†i `jxq KvR Dc~'vcb Ki†eb eo `†j Ges Gi Dci Av†jvPbv n†e|

mnvqZvKvix gZvgZ cÖ`v†bi gva"†g Awa†ek†bi mgvwß Uvb†eb|

## **mgwš^Z c-vebf~wg mn-e"e'vcbvi cwiPq**

**f~wgKv** t evsjv††ki 80% Gi I †ekx GjvKv wewfbœ b`-b`xi c-veb f~wg| GB c-veb f~wg GKwU weivU MÖvgxb Rb†Mvwôi RxweKvi †hvMvb w`†"Q hv†i †ewki fvMB Mwie RbMY| cÖwZ ermi G††ki RbmsL"v e,,wx cvq 22 j¶, Avi ÖkwiqvÕ AvB†bi Kvi†Y Rwg fvMvfvwM n†q w`b w`b Rwgi cwigvY K†g hv†"Q | d†j cÖwZ ermiB f~wgnxb †jv†Ki msL"v evo†Q |

Rwgi GB Pig Afv†ei Kvi†Y cÖvK...wZK mæú†i „Zi GB Mwie RbM†Yi Kv†Q Avil †ekx | cÖK...Z c†¶ Dæšy³ Rjvkq ev c-veb f~wg GjvKvi grm" mæú` Mixe RbM†Yi RxweKv I cywói GKwU cÖwZi¶v eyn" wnmv†e KvR K†i| GQvovl K...wl Drcv`b e"e'vi (MÖvgxY A\_©bxwZi cÖavb Kg©KvÛ) †gŠmygx AveZ©b G††ki `^i mæú`kvjx cwievi,†jv†K cÖfvweZ K†i| erm†ii †Kvb †Kvb mgq Zv†i Avq LyeB mxwgZ nq, djkö"wZ†Z µq ¶gZv LyeB mxwgZ n†q c†i| †hgb el©vq Avgb avb †ivc†bi c†i K...wl Kv†Ri my†hvM K†g hvq, Gmgq c-veb f~wg GjvKvq gvQ aiv cÖvq mKj K...wlRxex cwiev†ii GKwU Ab"Zg KvR nq Ges G †\_†K Zviv RxweKv wbev©n K†i I cywó cvq|

G mg~ — Kvi†YB c-veb f~wg GjvKvi Dbœqb Kg©KvÛ grm" I K...wl Lv†Zi mgš^†qi gva"†g nlqv Ri"wil hw`l eZ©gvb c-veb f~wg GjvKvi Dbœqb bxwZgvjv K...wl†K cÖvavb" †q| Gi d†j c-veb f~wg GjvKv mg~†n wewfbœ eb"v wbqš¿Y I †mP cÖKí Kiv n†"Q, H mg~ — GjvKvi `^fvweK cvwb cÖevn eÛ K†i †`qv n†"Q A\_ev evavMÖ~' Kiv n†"Q, Rjvf~wg iwK†q †djv n†"Q| d†j GKw`†K †hgb grm" mæú` gvivZæK fv†e ¶wZMÖ~' n†"Q Avevi H mg~ — wekvj AvKv†ii eb"v wbqš¿Y cÖK†ii Dc†hvMxZvl cÖ†kœi mæš~Lxb n†"Q| eo AvKv†ii eb"v wbqš¿Y I †mP cÖKímg~†ni cÖfve cwieZ©b Kiv mæçe nqbv Ges Gmg~ — †¶†¶ gvQ Ges Ab"vb" RjR mæú†i g~†j'i wewbg†q K...wl LvZ†K Z\_v avb Pvl†K cÖvavb" †`qv n†"Q| ¶ < †gŠmy†g hLb gv†Qi Avk^†qi Rb" mePvB†Z `ytmgq ZLb cvwb e"envi Kiv n†"Q †m†Pi Rb" | Avevi `yBm †MB†Ui gva"†g eb"vi cvwb XyK†Z evav

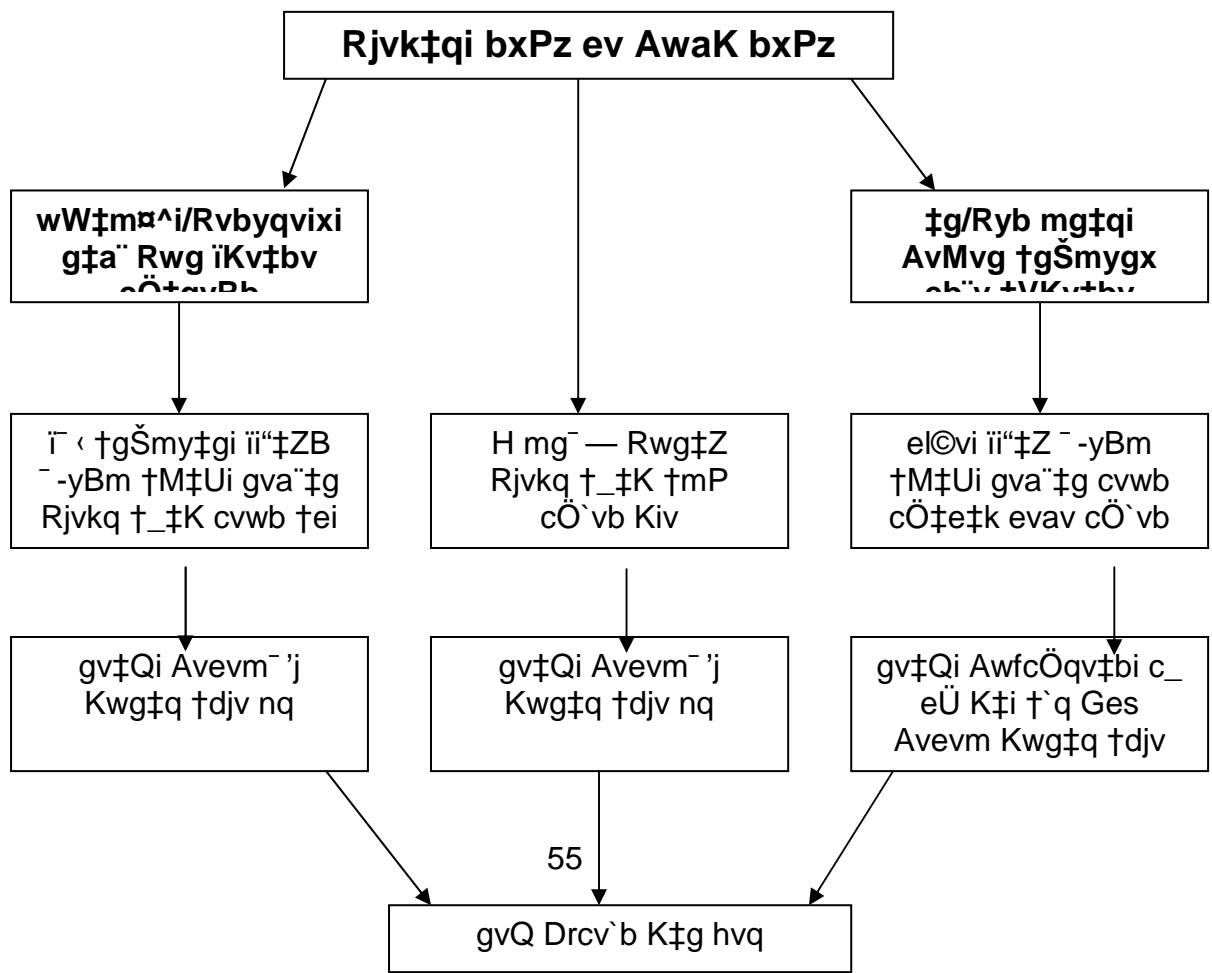
w`tq ev tci Kti w`tq gvtiQi cÖPzi ¶wZ Kiv n`"Q, gvtiQi AwfcÖqvti c\_ eÜ Kti t`qv n`"Q| G aiti AitK D`vniY Gt tk we`gvb| Zte mswk-ó mæú` e`enviKvixiv G mKj Ae`'vi K\_v eyStz cvtib|

**c-veb f~wg mæú` e`e`'vcbvi mgm`v mg~tñi mgvavti GKwU mgwš^Z` „wóf'½x**

MtelYvi gva`tg evsjvt`tki c-veb f~wg mæú` Dbœqti th evav mg~n cvlqv tMtiQ -

- 1| AwZwi³ Rbej l miÄvg e`envtii gva`tg gvivwZwi³ grm` AvnitYi dtj GB mæú` AvR aYsm cÖvq|
- 2| evua w`tq Rjvf~wg wew"Qbœ Kti Ges eb`v l cvwbi cwigvY Kwgtq tdtj ( -yBm tMBU e`e`'vcbvi gva`tg) gvtiQi Drcv`b Ktg tMtiQ|
- 3| AvMvg tgsmygx eb`vi dtj c-veb f~wg Gjkvtz tevtiv avti ¶q¶wZ|

GB wPÍ mvaviYfvte mKj c-veb f~wg GjkvtzB cwijw¶Z nq| hw`l G mKj mgm`v ,tjvi KZ,tjvtK mgwš^Z cÖqvti gva`tg tiva Kiv mæœ| G mg~ — mgm`vi thvMm~Î eyStz cvivi gvtiSB itqtQ mgwš^Z c-vebf~wg e`e`'vcbvi g~j m~Î| bxtP GKwU wPti gva`tg GB thvM m~Î Zztj aiv nttQ|



Dcþii wPÍ weþk-lþY þ`Lv hvþ”Q þh c-vebf~wg GjvKvi cÖvK...wZK  
máú` Z\_v grm” máú` Drcv`þbi GKwU g~j mgm”v nþ”Q þevþiv avþbi  
Pvl| cÖ\_gZt weþji cvwb þei Kþi w`þq h\_v máøe þekx Rwg Pvþli  
AvlZvq Avbv nq| wØZxqZt þh mvgvb” cvwb \_vþK Zv H RwgþZ  
þmþPi Rb” e”envi Kiv nq | Z...ZxqZt þþnZz Awak bxPz Rwgi avb  
eb”vq Wyþe hvlqvi máøvebv \_vþK ZvB` -yBP þMþUi gva”þg cÖvK  
þgŠmygx eb”v evavMÖ` ’ Kiv nq|

ī` < þgŠmyþg cvwbi cwigvY grm” máúþ`i Rb” LyeB` ,i“Zjic~b©| wKš`  
Dcþi ewY©Z Ae`’v GB ī` < þgŠmyþgB gvþQi Avevm` ’vþbi Rb”  
ûgwK m,,wó KiþQ cvwbi cwigvY Kwgþq þdþj| Avevi cÖvKþgŠmyg  
eb”vþK evav MÖ` ’ Kþi gvþQi AwfcÖqvb ¶wZMÖ` ’ Kiv nþ”Q| G  
mKþji g~j cÖwZwµqv nþ”Q gy³ Rjvkþqi gvþQi Drcv`b Kþg hvlqv,  
hvi Dci Mixe RbMY weþklfvþe wbf©ikxj| Avevi GB mg`—  
Kg©KvþÛi dþj Rjvkq mg~n grm” k~b” nþq civþZ Zvþ`i i¶v Kivi  
cÖþPóvl` ~e©j nþq cþo dþj w`þb w`þb Avil þekx cwigvþY Rwg  
þe`Lj nþq hvq| µþg Rjv ev weþji wejywß NþU| GB avivþK þRvi`vi  
Kivi Rb” Avil wKQy KviY RwoZ| þhgb : þjv wjd&U þmP hþš`zi mnR  
cÖvc”Zv|

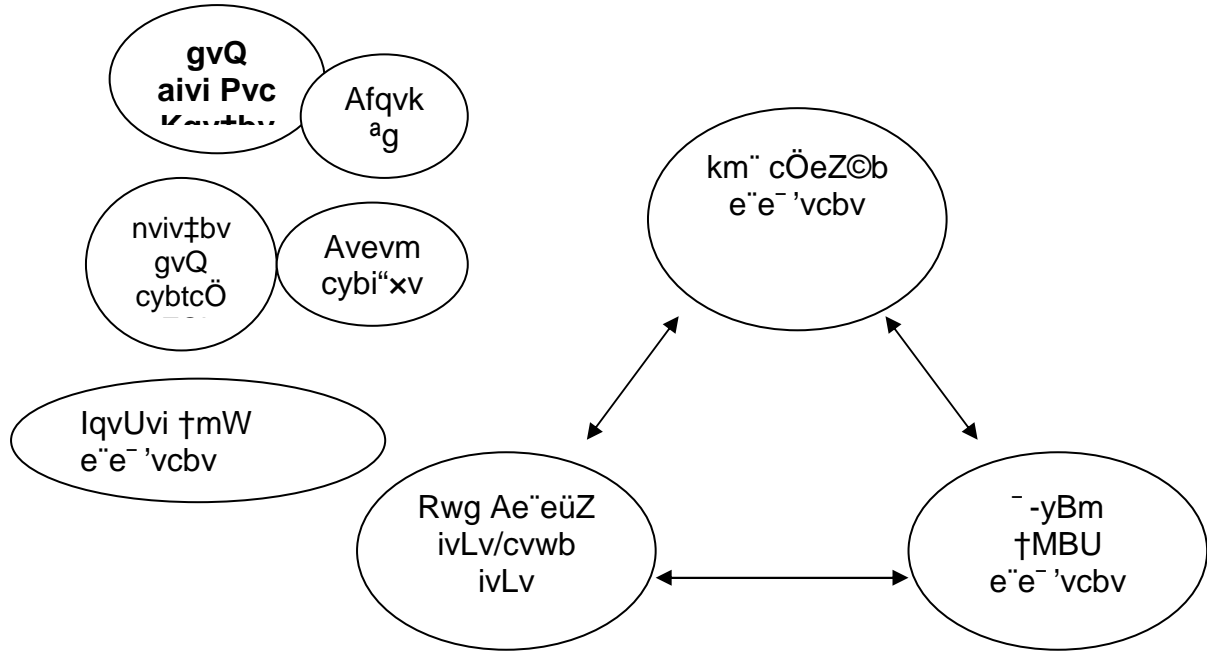
Gi cvkvcvwk Avevi Rwgi` ^íZv Ges RbmsL`v e,,wxi mvþ\_ mvþ\_  
gvQ aivi Dci Pvc e,,wx cvþ”Q| Zþe þmþPi gva”þg cvwb Kwgþq þdþj  
mKj gvQ aivþK mnR Kþi þ`qv nþ”Q| G mg`— þ¶þ` fwel`r  
cÖwZwµqvi K\_v weþePbvq Avbv nq bv|

eZ©gvb mvgvwRK Ae`’v GB cwiw`’wZþK Zjivwš^Z KiþQ| Aí  
msL`K þjvþKi nvþZ þekx cwigvY Rwgi` Lj Ges ZvivB máú~b©  
e”e`’vwUþK wbqš`Y Kþil þ`Lv þMþQ þh weþji meþPþq bxPz Asþk  
mvgvb” Rwgi avb i¶vi Rb”` -yBm þMBU eÛ Kþi ivLv nq, KviY H  
Rwg cÖfvekvjx þjvþKi` Lþj| Aci cþ¶ grm”Rxexiv Zvþ`i mvgvwRK  
Ae`’vþbi KviþY G e”vcvþi wKQy KiþZ cvþi bv| Zviv ¶wZ þgþb wþZ  
eva” nq| G mg`— þ¶þ` mnve`’vþbi ev gvSvqvwS Ae`’vi þKvb  
myþhvM`\_vþK bv|

**mgwš^Z mn-e”e`’vcbv þKŠkj**



þhþnZz weþji bxPz RwgþZ þevþiv avb PvlB GB c-vebf~wg GjvKvi mgm"vi g~þj ZvB Gi mgvavb | GLvb þ\_þK þei KiþZ nþe | bxþPi wPþî GaiþYi þ¶þî Avš—t mæúK@hy³ GKwU þKŠkj þ`Lvb njl



**1. km" cÖeZ©b e"e- 'vcbv**

**DPz Ges gvSvwi DPz RwgþZ Pvl cxwZ**

hw`l mgwš^Z c-vebf~wg e"e- 'vcbvi g~j j¶¶" nþ"Q bxPz Rwg, Zþe DPz Ges gvSvwi D"ÞZvi RwgþZ km" cÖeZ©b e"e- 'vcbv nþ"Q Gi cÖv\_wgK avc| MþelYvq þ`Lv þMþQ þh þevþiv avþbi þmþPi Rb" þh cwigvY cvwb Kwgþq þdþv nq Zv gvþQi Drcv`þb Lye þbwZevPK cÖfve þdþj| GB þmþPi Pwn`v DPz RwgþZB þekx| Avevi GB mg~— DPz RwgþZ Ab" aiþYi dmþji Avev` mnR hvþ`i cvwbi cÖþqvRbxqZv Kg wKš', avþbi PvBþZ A\_©%obwZK fvþe þekx jvfevb nlqv hvq| GjvKv wfwËK DcþhvMxZv weþePbvq wcqvR, Mg, gwiP, þe,b ev Ab"vb" iwe km" GB mg~— RwgþZ mvgvb" cvwb w`þq Pvl Kiv hvq|

**bxPz Rwgi Pvl cxwZ**

mvaviYfvþe Rwg hZ bxPz nþZ \_vþK ZZB þevþiv avþbi weKþii mæçvebv KgþZ \_vþK| KviY nþ"Q bxPz Rwg þRv \_vþK þekx hv

Ab"vb" iwe dmþji Rb" AbycþhvMx| GB Rwg mvaviY fvþe þevþiv Pvfli DcþhvMx| Zþe G aiþbi bxPz RwgþZ PvlK...Z þevþiv avb AþbK mgþq cvwbþZ Zwjþq hvq, KvUv hvq bv|

iwe dmþj ^ewPþl" wK aiþYi jvf nþZ cvþi

1. þevþiv avþbi weKí mKj iwe dmþjB þevþiv avþbi PvBþZ Kg cvwbi cÖþqvRb, hv wKbv Rjvkþq þ\_þK gvþQi Avc`Kvwjb Avevm Gi GjvKv evovþZ cvþi|
2. Ab"vb" iwe dmj cvKvi mgq Kg jvþM, hv wKbv H dmjþK AvMvg eb"vi nvZ þ\_þK iþv Kþi|
3. dþj AvMvg eb"vi cvwb weþj cÖþek KivþYv þþþZ cvþi| GB Ae"v gvþQi esk e,,wxi myþhvM m,,wó Kþi gvþQi Drcv`b evovþe|
4. GLvþb elv© þgŠmyþgi DcþhvMx Mfxi cvwbi avb Pvl Kiv mæœ hv gvþQi DcþhvMx Avevm m,,wó Kiþe, gvþQi Lv" Ges wbivc` Avk<sup>a</sup>q cÖ`vb Kiþe|

## **þevþiv avþbi cwieþZ© Ab" iwe dmþji cÖeZ©b**

Gþþki K...IK ev Rwgi gvwjKþ"i þgŠmyg þþþ` avbB cQþ"i dmj hw`l Gi LiP Ges SuzwK þekx| Ab"vb" dmþji þþþl evRviRvZKiY GKwU mgm"v nþZ cvþi| Avevi cvþki RwgþZ þevþiv Pvl nþj wcuqvþRi Rb" Zv þwZKi nþe| GRþb" GjvKv wfwËþZ K...IKþ"i gvþS Avjvc AvþjvPbvi gva"þg KvR KiþZ nþe| Avevi AþbK GjvKvi K...IK Ab"vb" iwe dmþji Pvlvev` cxwZ mæúþK© AbwfÁ nþZ cvþi|

myZivs iwe dmþj ^ewPþl" AvbþZ nþj K...IKþ"i wewfbœ aiþbi mnvqZv þhgb - cÖhyw<sup>3</sup>, UvKv-cqmv, exR BZ"vw` wþþZ nþe| Zþe mwVKfvþe Pvl Kiv nþj Ab"vb" iwe dmþj jvfevb nlqv hvq þekx|

## **2. -yBm þMBU e"e"vcbv**

### **AvMvg ev cÖvK eb"vi mgq -yBm þMBU e"e"vcbv**

AvMvg eb"vi mgq þg-Ryb gvþm -yBm þMBU mg~n eÜ ivLv nq þKej gvþ K...wl Z\_v avþbi K\_v weþePbv Kþi| bxPz Rwg mg~þni þevþiv avb ev Avgb avþbi K\_v weþePbv Kiv nq|

GB Ae"v gvþQi Rb" cÖavb `ywU þwZi KviY nþq `vuovq| cÖ\_gZt gvþQi Avevm "vb Kþg hvq| eb"vi cvwb cÖþek bv Kivi dþj wej Lvþj gvþQi Avevm "vþbi cÖmvi NUþZ cvþi bv| wØZxqZt gvþQi AwfcÖqv b evavMÖ" nq| dþj gv gvQ Zvi wWg Qvovi Rb" DcþhvMx

˘'vʃb ʃhʃZ cvʃi bv Ges Drcw`Z gvʃQi wWg ev ʃiby ʃcvbv Zvi Rb`  
DcʃhvMx ˘'vb ev Lv` MÖnʃYi GjvKvq ʃhʃZ cvʃi bv| gvQ Ges  
Ab`vb` RjR cÖvYxi Drcv`b gvivZœKfvʃe Kʃg hvq| MʃelYvq ʃ`Lv  
ʃMʃQ ʃh, ˘-yBm ʃMU mg~ʃni e`e`'vcbvq \_vʃK GjvKvi abx K...IK  
ev Ab`vb` cÖfvekvjx e`w³eM© hviv Zvʃi K...wli ˘^vʃ\_©B ʃKejgvı  
˘-yBmʃMBU e`envi Kʃi \_vʃK|

˘-yBm ʃMBUmg~n ʃg Ges Ryb gvʃm hZUv mæœe ʃekx mgq ʃLvjv  
ivLv hvq ʃm e`e`'v KiʃZ nʃel hw` ʃekx bxPz Rwg,ʃjvʃZ ʃevʃiv Pvl  
bv Kiv nq Zʃe GUv mnR nʃel cwieʃZ© H bxPz RwgʃZ hw` Mfxi  
cvwbi Avgb Pvl Kiv nq Zʃe GUv Avil hw³hy³ nʃel GB Ae`'v Rjvkʃqi  
grm` mæú` Dbœqʃb ,i`Zic~Y© Ae`vb ivLʃZ cvʃi|

### **wKfvʃe GUv ev` —evqb Kiv hvq?**

˘-yBm ʃMBU Acvʃikb mvaviYZt cvwb Dbœqb ʃevʃW©i GKRB  
Kg©KZv©i nvʃZ \_vʃK, whwb ˘-yBm ʃMBU KwgwUi mvʃ\_ Avjvc  
AvʃjvPbvi gva`ʃg ʃLvjv eʃÜi wmxvš— w`ʃq \_vʃKb| Gʃʃʃı cÖ\_g |  
,i`Zic~Y© avc nʃe ʃh ˘-yBm ʃMBU KwgwUʃZ grm` mæúʃi mvʃ\_  
RwoZ ʃjvKʃi ʃhgb ʃRʃj cÖwZwbwa Ges grm` Kg©KZv©ʃi H  
KgwUʃZ Aš—f~©³ Kiv| eZ©gvʃb dmʃji exgv wnmvʃe eb`vq  
ʃwZMÖ`' nlqvi mæœvebv bv \_vKʃj| ˘-yBm ʃMBU mg~n eÜ Kʃi  
ivLv nq| Gʃʃʃı mKʃj wgʃj mgʃSvZvi gva`ʃg wKfvʃe KZUv ʃekx  
mgq ʃLvjv ivLv hvq ʃm e`e`'v ʃbqv ʃhʃZ cvʃi| ˘wbK cwiw`wZ  
weʃePbv | wmxvš— MÖnʃYi gva`ʃg GUv Kiv mæœe nʃel|

### **i©˘ ʃgŠmyʃgi iı`ʃZ ˘-yBm ʃMBU e`e`'vcbv ʃKgb nʃe?**

i©˘ ʃgŠmyʃg gv gvʃQi ʃeuʃP \_vKvi Rb` weʃj hʃ\_ó cvwb \_vKv  
cÖʃqvRb| Ab`\_vq cieZx© ermʃi gvʃQi esk e,,wx nʃZ cviʃe bv Ges  
gvʃQi Drcv`b Kʃg hvʃel MʃelYvi gva`ʃg G aiʃbi djvdj cvlqv ʃMʃQ|  
wKš' eZ©gvʃb ˘-yBm ʃMBU e`envi Kiv nq wecixZfvʃel hZ  
ZvovZvwo hZUv mæœe cvwb ʃei Kʃi w`ʃq ʃekx cwigvʃY Rwg  
ʃevʃiv Pvʃli AvlZvq Avbv mæœe, ZvB Kiv nq| Gi cʃi Avevi weʃji  
Zjʃ`ʃk ʃh mvgvb` cvwb \_vʃK Zv ʃmP hʃš\_zi gva`ʃg iıwKʃq ʃdʃj  
mKj gvQ aʃi ʃdjv nq Ges weʃji Zjʃ`ʃkl avb jvMvʃbvi ʃPóv Kiv nq|  
wKš' MʃelYvq ʃ`Lv ʃMʃQ ʃh elv©q ˘-yBm ʃMU cʃqʃU hw` 9  
wgUvi cvwbl \_vʃK Z\_vvc Rjvkʃqi grm` Drcv`b wbav©wiZ nq H  
Rjvkʃq i©˘ ʃgŠmyʃg KZUv cvwb \_vKʃZ cvʃi Zvi Dcil|

G mg` — KviʃY i©˘ ʃgŠmyʃg cvwb ʃei Kʃi ʃ`qvi cwigvY wbqš\_zY  
KiʃZ nʃe Ges gvʃQi Avk`aq`j mg~ʃn hʃ\_ó cvwb ivLʃZ nʃel  
MʃelYvq ʃ`Lv ʃMʃQ ʃh c~ʃe©i Zzjvq gvı 0.25 wg. cvwb ʃekx

ivLvi dđj 9% Drcv`b evovđbv mæœe nđqđQ| A\_v©r eZ©gvb Ae`'vi PvBđZ cvwbi cwigvY mvgvb" evođjB gvđQi Drcv`b đek evovđbv mæœe| KviY H 0.25 wg cvwb đekx ivLvđZ 6775 đn. Gi gđa" 8 đn. đekx RwgđZ cvwb \_vđK| wKš' cwiw`'wZ KLbl Gfvđe weđePbv Kiv nq bv|

### 3. f~wg Ae"eüZ Ges cvwbi bxđP ivLv

Dcđii cxwZđZ -yBm đMBU wbqšđY Kiv nđj wKQy Rwg Pvđli AvlZvi evBđi ivLđZ nđe| hvi cwigvY Ađ| Gfvđe Rwg Pvđli AvlZvq bv Avbvi Rb" Rwg e"enviKvixđ'i ev gvwjKđ'i gđbvfvđei cwieZ©b Kiv cÖđqvRb nđe| cÖđqvRđb fZz©wKi e"e`'v Kiv đđđZ cvđi|

### 4. gvQ aiv wbqšđY

MđelYvq đ`Lv đMđQ msiwđZ GjvKv Ges msiwđZ đgŠmyg Gi gva"đg gvQ aiv Kgvđbvi đđj, gvđQi Drcv`b hđ\_ó cwigvY evovđbv mæœe| elv©i ii"đZ gvQ aiv eđÜi gva"đg gvđQi Drcv`b hđ\_ó evovđbv mæœe| KviY G mgq gvđQi esk e,,wx nq Ges G mgq gvđQi kvixwiK e,,wxl `a"Z NđU| Zđe Gđđđđ Mixe đRđđđ'i RxweKvi K\_v weđePbv Kđi G aiđYi e"e`'v MÖnY KiđZ nđe, cÖđqvRđb Zvđ'i Rb" weKđ Avđqi e"e`'v Ges FY mnvqZv cÖ`vb KiđZ nđe|

i©< đgŠmyđgi ii"đZB Mwie đRđj I f~wgnxbđ'i grm" đđđ mg~đn cÖđtek eÜ nđq hvq| G mgq abx BRviv`vi ev Zvđ'i wbđqvMK...Z đRđđđ'i gva"đg g~j wdwks Kđi \_vđK| Gmgq Zviv wej, Kzqv BZ"vw` đmuđP đkl gvQwU aivi đPóv Kđi| GQvovl weđji cvwb w`đq đmuđPi KvR Kđi \_vđK| KvđRB GB mgqUvđZ wbqšđY Avđivđci đđŠw<sup>3</sup>KZv đekx| hw` Gmgq Kzqv đmPv Ges weđji Zjv đKvđbv eÜ Kiv hvq i` < đgŠmyđgi đklvsđk wbqšđY Avđivđci gva"đg, Zđe cieZx© elv©q đ\_đK hvlqv gvQ wWg Qvovi gva"đg esk e,,wxi myđhvM cvđe| Avi GUv Zyjbvg~jKfvđe Kg Z`vđMi gva"đg Kiv mæœe|

hw`I jđ^v mgq gvQ aiv eÜ ivLđZ cviđj Zzjbvg~jKfvđe đekx gvQ Drcv`b mæœe, wKš' GUv Avevi ev` —evqđb bvbv mgm"v đ`Lv đ`q|

### msiwđZ GjvKv

gvQ aiv wbqšđđYi Avi GKwU Kvh©Ki c\_| GUv mnđRB mKđj eySđZ cvđi Ges đPvđL đ`Lv hvq, đm Rb" GUv ev` —evqbl mnR| hw`I Rjvđđqi KZfvM msiwđZ ivLđZ nđe đmUv GLbl Rvbv hvq bvB|

Zte Ae<sup>-</sup> 'v tft` i®<sup>κ</sup> tgŠmytgi RjvqZtbi 10-15% GjvKv msiw¶Z ttiL  
fvj djvdj cvlqv tMtQ|

Zte G mKj t¶tB<sup>-</sup> 'vbxq RbMtYi AskMÖntYi cÖtqvRb AvtQ|

## Awaṭekb-7 RjR Avevm cyYti“xvi

**cUf~wg t** †Kvb GKwU Rxe †h ṽ'vṭb evm Kṭi ZvṭK H Rxṭei Avevm eṭj| cÖK...wZṭZ Rxe mṛú` ev Rxe%ewPĪ“ Kṭg hvlqvi GKwU Ab“Zg KviY nṭ”Q Zvṭi Avevmf~wg bó nṭq hvlqv ev ¶wZMÖ`' nlqv| myZivs †Lv hvṭ”Q †h, Rxe mṛú` e“e`'vcbv KiṭZ PvBṭj Zvṭi Avevmf~wgi e“e`'vcbv ev cybi“xvi LyeB „i“Zjc~Y©| GB †mkbwUṭZ Rxṭei Avevm, Gi bó nṭq hvlqv Ges wKfvṭe Zv cybi“xvi Kiv †hṭZ cvṭi GB AvṭjvPbv nṭe|

**Dṭik“ t** GB †mkb †kṭi AskMÖnYKvixe,,›` eY©bv I e“vL“v KiṭZ cvṭeb t

- K. RjR Avevm, evsjvṭ`ṭki Af“š—ixY Rjvf~wg Avevm;
- L. RjR Avevm bó nṭq hvlqvi KviYmg~n Ges wKfvṭe G mg` — Avevm cybi“xvi Kiv †hṭZ cvṭi|

**mgq t** 1 N›Uv|

**DcKiY t** wd~cPvU© KvMR, wd~cPvU© †evW©, †nvqvBU †evW©, gvKv©i|

**cÖwµqv t** gy<sup>3</sup> AvṭjvPbv, †e<sup>a</sup>Bb÷wg©s, †QvU `jxq KvR Ges Dc`'vcbv|

**cxwZ t**

**avc 1.** welṭqi AeZviYvi ci mnvqZvKvix AskMÖnYg~jK AvṭjvPbvi gva“ṭg AskMÖnYKvixṭi gvṭS Avevm, weṭkl Kṭi RjR Avevm mṛúṭK© aviYv w`ṭeb| Gici mnvqK †e<sup>a</sup>Bb÷wg©s Gi gva“ṭg evsjvṭ`ṭki RjR Avevm bó nṭq hvlqv ev ¶wZMÖ`' nlqvi KviYmg~n †Rṭb ṭbṭeb Ges wd~cPvU© KvMṭR wjṭL ivLṭeb|

**avc 2.** Gi cṭi AskMÖnYKvixṭi †QvU `ṭj fvM Kṭi `jxq KvR KiṭZ †`qv nṭe| wK wK fvṭe RjR Avevm cyYti“xvi Kiv †hṭZ cvṭi| AskMÖnYKvixe,,›` G KvṭRi avcmg~n eo KvMṭR wjṭL wbṭq Avmṭeb| GKRB `jxq cÖwZwbwa c-vbvixṭZ `jxq KvR Dc`'vcbv Kiṭeb AvṭjvPbvi Rb“ Ges cÖṭqvRṭb e“vL“v cÖ`vb Kiṭeb| mnvqZvKvix gš—e“ cÖ`vṭbi gva“ṭg Awaṭekṭbi mgvwß Uvbṭeb|

## RjR Avevm cyYti“xvi

Avevm nř”Q řKvb Rxřei evox řhLvřb GwU evm Kři| Avevm  
^ZixřZ cwřřřřki wewfbœ Dc`vřbi f~wgKv \_vřK| G mg` — Dcv`vb  
nř”Q t

A%oRweK t

1. Rjevqy (Zvc, e,,wó, evqy cÖevn)
2. f~cÖK...wZ (f~wgifc, Xvj. DcRxe BZ`vw`)
3. g,,wĚKv (řřřZ I ivmvqwbK ,Yvejx)

%oRe t

GKwU Rxřei Dci Aci řKvb Rxřei cÖfve|

cÖvK...wZK ev gvbyřli m,,ó řKvb KviřY Avevm aŸsm ev řwZMÖ`  
nřZ cvři| cÖvK...wZK KviYmg~nt eb`v, (cwj cov) So, f~wgKřú  
BZ`vw`| gvbyl m,,ó KviYt e`envi cwieZ©b - Rjvf~wgřK gvbyřli  
Aveřřm cwieZ©b Kiv, `~IY, AwZwi³ AvniY BZ`vw`|

### evsjvř`řki RjR Avevm Gi`ewkó`

1. evsjvř`řki RjR Avevm LyeB`ewPĪ`c~Y© hvi Rb` GB Avevm  
Rxe`ewPĪ`I cwic~Y©| Gř`řki Af`š—ixY Rjvf~wgřZ wewfbœ  
RvřZi gvQ I wPswoi cÖRvwZB AvřQ 300wUi I AwaK|
2. %oewPĪ`gq Avevm Ges Kgřc- nvBřWřvjwRK`vj Ae`v I  
řgřmyg`ewPĪ` Gř`řki grm` mřúř`i evrmwiK c~Yřřřbi  
myřřhvM m,,wó KřřřQ| Gi gva`řg GKwU řUKmB Drcv`b  
e`e`v Ges Rxe%oewPĪ` eRvq`vřK|
3. Af`š—ixb gy³ Rjvkřqi grm` Drcv`řb nvBWřvjwRK`vj avivi  
GKwU ,i`Zic~Y© cÖfve AvřQ| elv©q cÖmvwiZ nlqv Ges  
kxřZ msKzwPZ nřq cov nř”Q c-vebf~wg GjvKvi`ewkó`| H  
`ewkó`wUB gvřQi wewfbœ`RweK wřqvi g~j wbyvgK|
4. Gř`řki Rjvf~wgi`ewPĪ`, Gi Drcv`b I Rxe`ewPĪ` řekx| wKš`  
AvR GB`ewPĪ`c~Y© RjR Avevm bvbviKg gvbyl m,,ó Ges  
cÖvK...wZK KviřY ũgwKi mřřyLxb| c-vebf~wgi řekxi fvM  
AskB řwZMÖ`, řKvb řKvbwU AvswkK řwZMÖ`|

### RjR Avevm aŸsm ev řwZMÖ` nřq hvlqvi cÖavb KviYmg~n

1. cwj/evwj Rřg fivU nřq hvlqv|
2. Rjvf~wgi ifcvš—i - K...wl Rwg, Nievox, iv` —v BZ`vw`|
3. iv` —v Ges Ab`vb` `vcvbi gva`řg Rjvf~wg c,,\_K Kři řdjv|

4. eb`v wbqš¿Y evua Ges -yBm †MU BZ`vw` wbgv©Y|
5. Rjvf~wg GjvKvi eb aÿsm K†i †d|v|
6. cvnvox GjvKvi eb aÿsm K†i †d|v|
7. cvnvox GjvKvq Aby†cv†hvMx Pvlvev` cxwZ|

### Rjvf~wg Avevm cybti“xvi

wKQy Kvh©µ†gi gva`†g †Kvb aÿsm cÖvß ev ¶wZMÖ- ' Rjvf~wg†K cybivq Drcv`bKxj KivB Rjvf~wg Avevm cyYti“xvi| G R†b` mvaviYZt †fŠZ Kvh©µg MÖnY Kiv nq, †hgb Zj†`k Lbb Kiv, MvQ jvMvb, ms†hvM cyb:~`vcb cvwb cÖev†n evav AcmviY, `~|Y wbqš¿Y BZ`vw`|

Rjvf~wg Avevm aÿsm cÖvß n†j †hgb H -`v†b RjR Rx†ei RxebaviY ev Zv†`i Rxeb P†µi †Kvb ev †Kvb GKwU chv©q wewNœZ nq| †miKgv†e Avevm cyYti“xv†ii mgq Avevi †Lqvj ivL†Z nq †h, RjR Rx†ei Rb` Zv KZUv Ges wKfv†e DcKvix n†e| †hgb hw` GKwU we†ji Zj†`k Lbb Kiv nq Z†e i®‹ †gŠmy†g H -`v†b gv gvQ Avk<sup>a</sup>q wb†Z cvi†e Ges cieZx© cÖRbb FZz†Z esk e„wx Ki†Z cvi†e| Avevi hw` GKwU Lvj Lbb Kiv nq Z†e gv†Qi AwfcÖqv†bi my†hvM m„wó Kiv n†e d†j gv†Qi cÖRbb, e„wx Ges `ewPÎ` e„wx cv†e|

### cyYi“xvi Kvh©µg wbifcY

GKwU Rjvf~wg†Z cyYti“xvi Kvh©µg MÖn†Yi c~†e© fvjfv†e hvPvB evQvB Kivi cÖ†qvRb i†q†Q| †hgb H Rjvf~wguUi eZ©gvb Ae-`v, c~†e©i Ae-`v, cyYi“xvi Kiv n†j KZUv jvfRbK n†Z cv†i, Kviv jvfevb n†e BZ`vw` Z\_` Rvbv LyeB cÖ†qvRb| Gi Rb` Rixc | cixwe¶†Yi c<sup>a</sup>†qvRb Av†Q|

### K. mvgvwRK cixwe¶Y

mvgvwRK cixwe¶†Yi gva`†g wbæwjwLZ cÖ†qvRbxq wel†q Z\_` cvlqv †h†Z cv†i Ges cwieZ©†bi Z\_` cvlqv m<sup>a</sup>†e|

1. gvQ Lvlqvi cwigvY;
2. cÖRvwZ `ewPÎ` (gv†Qi);
3. grm`Rxex†`i msL`v | eZ©gvb Ae-`v;
4. grm` AvniY n†Z Avq|

G ai†bi cixwe¶Y ev Rwic KvR Kivi Rb` wbæwjwLZ cxwZ mg~n e`envi Kiv †h†Z cv†i

1| mbvZb cxwZ - cÖwk¶Y cÖvß Z\_` msMÖnKvixiv wbav©wiZ Q†K wbev©wPZ Lvbv Rwi†ci gva`†g cÖPzi Z\_` msMÖn Ki†Z cv†i| Z\_`



msMÖþni myweavþ\_© -'vbxq QvÎ-QvÍx ev Zi“b-hyewZ wkw¶Zþ`i  
KvþR jvMvb þþZ cvþi|

2| AskMÖnYg~jK cxwZ t AskMÖnYg~jK cxwZþZ cÖKþii  
AskMÖnYKvixþ`i KvþQ þ\_þK Z\_” msMÖn Kiv nþq \_vþK| GUv  
cÖwk¶Y cÖvß GbwRI Kgx© ev -'vbxq gwnjv/cyi“liv KiþZ cvþib|  
AskMÖnYg~jK cxwZþZ ,YMZ Ges msL“vMZ Dfq cÖKvi Z\_”  
msMÖn Kiv hvq| Avi H mg- — Z\_” AskMÖnYKvixþ`i gva“þg hvPvB  
nq|

## L. Rxe cixwe¶Y

cyYti“xvi Kvh©µþgi cÖavb DþÍk” nþ”Q þh gvQ ev mvwe©K RjR  
Drcv`b evovþbv, cÖRvwZ ^ewPÎ” evovþbv Ges msi¶Y Kiv| þm Rb”  
KvþRi cÖfve hvPvB Kivi Rb” GB þ¶þÍ cixwe¶Y Ri“wil grm” I Ab“vb”  
Rjvf~wg mæú` Avniþbi Z\_” (c~e© I cþii) wbþq WvUvþem %oZix KiþZ  
nþe| wbæwjwLZ Z\_”vejx Gþ¶þÍ ,i“Zjc~Y©

1. grm” AvniY;
2. cÖRvwZ ^ewPÎ”;
3. grm”Rhexþ`i aiY I gvQ aivi nvi;
4. gvQ aivi cxwZ Ges e“e-’v;
5. gvþQi AwfcÖqvb;
6. Ab“vb” RjR mæú` msMÖþni cwigvY|

## KvþRi GþcÖvP

cyYi“xvi Kvh©µg my`ifvþe KiþZ PvBþj Ges jw¶Z djvdj þcþZ PvBþj  
ev-—evqþbi mvþ\_ hviv RwoZ \_vKþeb Zvþ`i mKjþKB mvwe©K  
KvRwU cy•Lvbycy•Lfvþe hvPvB Kþi þ`LþZ nþe| Gþ¶þÍ, weþkl Kþi  
-’vb wbev©Pb, cwiKÍbv I ev-—evqþbi mvþ\_ -’vbxqþ`i AskMÖnY  
wbwðZ KiþZ nþe| -’vbxq GjvKvevwmþ`i ev-—e Ávb I `xN©  
AwfÁZv mwVK Kvh©µg MænY, cwiKÍbv I ev-—evqþb LyeB Kvh©Ki  
nq|

## -’vb wbev©Pb

-’vb wbev©Pb cªwµqvq wewfbœ chv©þq wewfbœ Kvh©µg nvþZ  
wbþZ nq| G mg- — Kvh©µg bxþP msþ¶þc AvþjvPbv Kiv nj|  
me©cÖ\_g Kg© GjvKv cwi`k©b KiþZ nþe, wewfbœ aiþbi  
m“vþUjvBU, I Ab“vb” g“vþci mnvqZvq Kvh©µþgi -’vb wbw`©ó KiþZ  
nþe| þhgb-Kg© GjvKvi wej, Lvj BZ“vw` wbev©Pb| G mgþq -’vbxq

RbmvaviY, †ckvRxwe, cÖK†í AskMÖnYKvix†`i mv†\_ AvbyôvwbK |  
AbvbyôvwbKfv†e Av†jvPbv Ki†Z n†e, Zv†`i gZvgZ wb†Z n†e|

### **wb†æi ^ewk†ó`i Dci wfwĒ K†i ` `vb wbev©Pb Kiv hvq**

K. gv†Qi AwfcÖqvb c\_ cwj c†o ev †Kvb wbgv©b Kv†Ri Rb`  
evavMÖ` ` ev eÜ n†q †M†Q Ggb ` `vb|

L. MfxiZv K†g Zv ` `vqx Rjvavi †\_†K †gŠmywg Rjvav†i cwiYZ  
n†q†Q Ggb wej Lvj|

M. cÖ` —vweZ ` `v†b cyYti`xvi Kvh©µg MÖnY Kiv n†j Zv H GjvKvi  
cwi†ek ev Av\_©-mvgvwRK Ae` `vi Dci †Kvb †bwZevPK cÖfve  
†dj†e bv|

N. cÖ` —vweZ Kv†Ri Rb` ` `vbxq GjvKvevwmi AvMÖn Ges Zv†`i  
g†Zi wj \_vK†Z n†e|

hLb GKwU ` `v†bi †¶†† Dc†iv³ we†ePbvq n`uv †evaK DĒi cvlqv  
hv†e ZLb cÖK...Z KvR iiii Rb` wbæwjwLZ e`e` `v MÖnY Ki†Z n†e

- mgv†Ri mK†ji mv†\_, BDwbqb m`m` | †Pqvig`vb, grm`Rxex |  
Ab`vb` †ckvRxwe†`i mv†\_ Av†jvPbv Ki†Z n†e|  
AskMÖnYg~jK cxwZ†Z gvbwPÍ Askb | wewfbœ  
AskMÖnYg~jK cxwZ MÖn†Yi gva`†g mswk-ó welqmg~n  
máú†K© cwi@`vi aviYv wb†Z n†e|
- Dc†Rjv chv©†qi mswk-ó miKvwi Kg©KZv©†`i mv†\_ D†ík`,  
Kg©cwiKÍbv BZ`vw` wb†q Av†jvPbv Ki†Z n†e|

wej-Lv†ji †fŠZ Dbœeqb KvR wb†æi avc Abyhvqx Kiv †h†Z cv†i

- máú†`i gvbwPÍ Askb | Avi,Avi,G|
- ĩgvix/máú`gvÍv †k<sup>a</sup>YxKiY|
- wcGwcvW
- ` `vb wbev©Pb|
- máú` e`enviKvix†`i g†a` †\_†K ev` —evqb KwgwU MVb
- cÖ` —ve ^ZixKiY/Kvh©µg | e`e` `vcbv cwiKÍvmn
  - cÖ†qvRbxq miKvwi ev Ab`vb` Aby†gv`b MÖnY|
  - Kv†Ri Rb` cÖ†qvRbxq UvKv-cqmv msMÖn|
  - KvR ev` —evqb|
  - g~j`vqb|

### **†fŠZ Dbœeqb Kv†Ri LiP wbifcY**

wej-Lvþji þfŠZ Dbœqþbi gva“þg Avevm cybi“xvi GKwU LiP mvþc¶  
 KvR| cÖKþii mnþhvMx cÖwZôvb wmGbAviGm Gi AwfÁZvi  
 AvþjvþK LvZwfwËK LiþPi GKwU nvi bxþPi QþK Dc`'vcb Kiv njt

gvwUi KvþRi k <sup>a</sup> wgK	Ab“vb “ k <sup>a</sup> wgK	cvwb þmP	AvMv Qv cwi® vi	mæšv bx	mfv	hvZvq vZ	gbnix ` <sup>a</sup> e“vw ,	Ab“vb “
88.01 %	2.27%	3.29%	0.33%	3.05%	0.15%	1.21%	1.65%	1.65%

wmGbAviGm Gi AwfÁZv þ\_þK Rvbv hvq þh cÖwZ 1000 wKDweK  
 dzU gvwU KvUvi Mo LiP 1240 UvKv| GB wnmvþe GK þnt wej wZb  
 dzU Mfxi Kþi KvUþZ nþj LiP nþe 4,20,000 UvKv|

## Awaṭekb-8 RjR Afqvk<sup>a</sup>g

**cUf~wg t** wbav©wiZ mxgvbvi msiw¶Z GjvKv †mLv‡b jw¶Z cÖRvwZ ev cÖRvwZmg~n aiv cov ev †Kvb cÖKv‡ii evav wecwĚ QvovB eo nlqvi my‡hvm cv‡e Zv‡K Afq Avk<sup>a</sup>g ejv nq| ~'vqx ev †gŠmyg wfwĚK Dfq cÖKvi Afqvk<sup>a</sup>g n‡Z cv‡i| Afqvk<sup>a</sup>g mvaviYfv‡e GK ev GKvwaK Dwíó cÖvYx ev Dw<sup>TM</sup>ç‡'i Avc`Kvjxb Avk<sup>a</sup>g~'j, hLb †ekxi fvM GjvKv Zvi ev Zv‡'i Rb" ^eix n‡q c‡o|

Afqvk<sup>a</sup>g cÖvK...wZK mṁú` msi¶Y, Rxe%ewPÍ" msi¶Y BZ"vw`i cwiw¶Z Dcvq| †mRb" GwU msi¶Yev`x Ges `xN©~'vqx mṁú` e"envi cwiKíbvKvix‡'i Kv‡Q cQ`bxq| GB AwaṭekbwU AskMÖnbKvix‡'i gv‡S Afqvk<sup>a</sup>ṭgi D‡Ĳ", DcKvwiZv, GjvKv wbev©Pb, ~'vc‡bi Dcvq BZ"vw` wel‡q aviYv m,,wó Ki‡e|

D‡Ĳ" t GB Awaṭek‡bi †k‡l AskMÖnYKvixiv

- K. RjR Afqvk<sup>a</sup>g wK Ges Gi D‡Ĳ" wK Zv ej‡Z I e"vL"v Ki‡Z cvi‡eb|
- L. †Kvb ~'v‡b Ges wKfv‡e AfqAvk<sup>a</sup>g ~'vcb Ki‡Z n‡e Ges Zvi e"e~'vcbv wK n‡e G mg~ — ej‡Z I e"vL"v Ki‡Z cvi‡eb|

**mgq t** 1 N›Uv|

**DcKiY t** wd~cPvU© KvMR, wd~cPvU© †evW©, †nvqvBU †evW©, gvKv©i|

**cxwZ t** gy<sup>3</sup> Av‡jvPbv, †e<sup>a</sup>Bb÷wg©s, †QvU`jxq KvR, Dc~'vcbv|

**cÖwµqv t** mnvqZvKvix welq e"i cwiwPwZi gva"‡g Av‡jvPbv ii" Ki‡eb| wZwb AskMÖnYKvix‡'i wb‡q Afqvk<sup>a</sup>g, Gi D‡Ĳ", cÖK...wZ BZ"vw` Av‡jvPbvi gva"‡g msÁvqxZ Ki‡eb, e"vL"v Ki‡eb|

Gic‡i AskMÖnYKvix‡'i †QvU `‡j fvM K‡i Zv‡'i `jxq KvR w`‡eb| †QvU `‡j AskMÖnYKvixiv t

1. Afqvk<sup>a</sup>ṭgi Rb" Dchy<sup>3</sup> ~'vb wbev©Pb
2. Afqvk<sup>a</sup>g ~'vc‡bi cxwZ
3. Afqvk<sup>a</sup>g e"e~'vcbv ev i¶Yv‡e¶Y I
4. Afqvk<sup>a</sup>g e"e~'vcbvq wewfbœ mgm"v - GB mg~ — welq wb‡q Av‡jvPbv Ki‡eb Ges eo KvM‡R Zv wjwcex Ki‡eb| cÖwZ `‡ji GKRb cÖwZwbwa eo `‡j Zvi `‡ji KvR Dc~'vcb Ki‡eb|

Dc<sup>-</sup> 'vcbv, g%oZ†K<sup>o</sup> †cvQv†bvi c†i mnvqZvKvix Awa†ekb  
mgvß Ki†eb|

## RjR Afqvka<sup>g</sup>

wbav©wiZ mxgvbvi msiw¶Z GjvKv †hLv†b Dwłó cÖRvwZ ev  
cÖRvwZ mg~n aiv civ ev †Kvb cÖKvi evuav wecwĚ QvovB Rxeb  
Pµ mgvav Ki†Z ev Rxeb P†µi we†kl †Kvb GKwU mgq cvi Ki†Z  
cv†i †mB GjvKv†K Afqvka<sup>g</sup> ejv hvq| Afqvka<sup>g</sup> -'vqx ev †gŠmyg  
wfwĚK Dfq cÖKvi n†Z cv†i| cÖvYxi Avc`Kvjxb Avka<sup>g</sup>-'j wnmve  
Afqvka<sup>g</sup> LyeB ,i“Zjc~Y©|

cÖvYx I Dw™ϕ` msi¶†Y Ges †UKmB Drcv`b e`e`'vi Rb<sup>o</sup> Afqvka<sup>g</sup>  
GKwU cwiw¶Z cxwZ| G R†b<sup>o</sup>B msi¶Yev`xiv ev cÖvK...wZK mǎú†i  
†UKmB e`env†ii cwíKíbvKvixiv GwU†K LyeB jvMmB g†b K†ib|

Kvw•LZ j†¶<sup>o</sup> †cŠuQv†bvi Rb<sup>o</sup> Afqvka<sup>g</sup> cwíKíbv †\_†K ii“ K†i ev<sup>-</sup> —  
evqb I e`e`'vcbv ch©š— cÖwZwU avcB ,i“Zjc~Y©| GLv†b  
cÖwZwU av†c wK Ges wKfv†e KiYxq Zv msw¶ßfv†e Zz†j aiv  
n†q†Q|

## RjR Afqvka<sup>g</sup>†gi D†ík<sup>o</sup>

1. RjR cÖvYx-Dw™ϕ†i i©<sup>o</sup> †gŠmy†gi Avka<sup>g</sup>-'j hLb Zv†i  
Avevm mskzwPZ n†q c†i;
2. gv†Qi cÖRbb †¶¶ msi¶Y Kiv;
3. †Kvb we†kl cÖRvwZ msi¶Y Kiv;
4. gv-gvQ msi¶Y Kiv|

## Afqvka<sup>g</sup>†gi DcKvwiZv

hw`I Afqvka<sup>g</sup> RjvR mǎú` msi¶Y I e,,wxi cwiw¶Z Dcvq, Zeyl  
Afqvka<sup>g</sup>†gi mǎú~Y© DcKvwiZv †c†Z mg†qi cÖ†qvRb| Afqvka<sup>g</sup> †\_†K  
wbæwjwLZ DcKvimg~n cvlqv mǎϕe|

1. gv†Qi Drcv`b e,,w×;
2. cÖRvwZ ^ewPÎ<sup>o</sup> e,,w×;

3. eo AvK...wZi gvQ;
4. gv gvQ e,,wx;
5. wewfbœ ai†Yi RjR cÖvYx I Dw™ø` msi¶¶Y|

### **Afqvk<sup>a</sup>†gi - 'vb Ges AvK...wZ**

mvaviYZ: wej, nvli ev b`x ev G†`i Ask we†kl†K Afqvk<sup>a</sup>g wnmv†e †NvIYv Kiv n†q \_v†K ev Afqvk<sup>a</sup>g -'vcb Kiv n†q \_v†K| GKwU Afqvk<sup>a</sup>†gi AvK...wZ wK n†Z cv†i †m ai†Yi †Kvb ^eÁvwbK Z` cÖgvb bvB| Z†e †`Lv †M†Q †h wmwel-Gi e`e`- 'vcbvaxb we†j we†ji 10-15% GjvKv Afqvk<sup>a</sup>g wnmv†e msi¶¶Y Ki†j Avkv e`ÄK dj cvlqv hvq| Afqvk<sup>a</sup>†gi AvKvi eo nlqvB fvj KviY Zv†Z wewfbœ cÖRvwZi A†bK gvQ ev Ab`vb` RjR cÖvYx Avk<sup>a</sup>q wb†Z cvi†e| Afqvk<sup>a</sup>†gi myi¶¶v wbwör Kivi Rb` Afqvk<sup>a</sup>†gi Pvwiv`†K 100 wg. ev h†\_ó cwigv†Y RvqMv evdvi †Rvb wnmv†e ivL†Z cvi†j fvj nq|

## Afqvk<sup>ag</sup> - 'vcɤbi Rb" Dchy<sup>3</sup> - 'vb

1. b`xi Kzg ev Mfxi - 'vb, thLvɤb b`xi eo gvQ,wj i® t gŠmyɤg Avk<sup>aq</sup> tɤq|
2. Mfxi Lvj, b`x ev Ab" tKvb Rjvkɤqi Ask hv gvɤQi cÖRbb t¶i wnmvɤe e"eüZ nq, gvɤQi Awfevmb c\_ BZ"vw`|
3. weɤji ev c-vebf~wg GjvKvi Kzqv ev cvMvi, i® t gŠmyɤgl thLvɤb cvwb \_vɤK|
4. weɤji Mfxi Ask t mLvɤb mviv eQi cvwb \_vɤK Ges gvɤQiv kxZKvjxb Avk<sup>aq</sup> wnmvɤe e"envi Kɤi|

Zɤe mKj t¶iB GKwU welɤq j¶i ivLɤZ nɤe th wbev©wPZ - 'vbwU thb tKvb μɤgB `~lYhy<sup>3</sup> ev `~lY Drɤmi KvɤQ bv nq| Avil j¶i ivLv cÖɤqvRb th, Afqvk<sup>ag</sup> - 'vcɤbi cɤil thb RjvkqwUɤZ e"e- 'vcbv msMVb (wmwel) Gi gvQ aɤi Avq Kivi Rb" hɤ\_ó RvqMv \_vɤK| msMVɤbi cvkvcvwk mgvɤRi Ab"vb" e" w<sup>3</sup>eM©, weɤkl Kɤi e"enviKvixɤi gZvgZ l HKgZ" LyeB ,i"Zic~Y© welq|

## wKfvɤe Afqvk<sup>ag</sup> - 'vcb KiɤZ nɤe

gvQ Ges Ab"vb" RjR cÖvYx Ges Dw™ϕ` msi¶Y Kiv nɤ"Q RjR Afqvk<sup>ag</sup> - 'vcb Kivi Dɤik" | t mB Dɤiɤk" tKvb GjvKvɤK wbw`©ó Kɤi Afqvk<sup>ag</sup> wnmvɤe tNvlyv w`ɤq GKwU Afqvk<sup>ag</sup> - 'vcb Kiv hvq| Zɤe Afqvk<sup>a</sup>ɤgi Dɤik" Ges DcKvwiZv wbwðr Kivi Rb" wewfbœ cÖwμqv, wewfbœ e"e- 'v MÖnY Kiv nq| - 'vbxq mgvɤRi t jvKɤi gZvgZ Ges Zvɤi Øviv msi¶Y wbwðZ Kiv LyeB ,i"Zic~Y©| Afqvk<sup>a</sup>ɤg thb Avk<sup>aq</sup>MÖnYKvix cÖvYxɤi Pzwi Kɤi aɤi tɤjv bv nq| cwiKíbv cÖYqɤbi mgq t\_ɤKB GB w`ɤK bRi w`ɤZ nɤe| bxɤP wKQy cxwZ/cÖwμqv AvɤjvwPZ nj|

1. - 'vbxq mn-e"e- 'vcbv msMVb wɤq KvR Kivt GUv LyeB ,i"Zic~Y©| eZ©gvɤb GUv cÖgvwbZ th GKwU AvMÖnx, `„p Ges cÖwZkÖ" wZkxj - 'vbxq msMVb Afqvk<sup>ag</sup> - 'vcb l Gi i¶Yvɤe¶i Rb" cÖɤqvRb| Afqvk<sup>ag</sup> - 'vcɤbi c~ɤe©B GUv wbwðr KiɤZ nɤe th H - 'vɤb - 'vbxq e"enviKvixɤi wɤq GKwU cÖwZkÖ" wZkxj msMVb AvɤQ| cÖɤqvRɤb MVb KiɤZ nɤe|
2. mɤPZbZv m„wót mgvɤRi/GjvKvi mKjɤK mɤPZb KiɤZ nɤe wewfbœ gva" g l c<sup>a</sup>wμqv e"envi Kɤi| mgvɤRi mKjɤK Afqvk<sup>ag</sup> Gi cÖɤqvRbxqZv Ges Ab"vb" welq mg~ɤn mɤPZb Kɤi ZzjɤZ nɤe| cÖPvi cÖPviYv LyB ,i"Zic~Y©|
3. - 'vb l mxgvbv wbav©iY l tNvlyv cÖ`vbt Afqvk<sup>ag</sup> - 'vcɤbi g~j KvR| msMVb l - 'vbxq e"vw<sup>3</sup> eM©ɤi mvɤ\_ AvɤjvPbv Kɤi

Afqvk<sup>a</sup>†gi Rb" - 'vb wbev©Pb Ki†Z n†el Gici msMVb, - 'vbxq e" w<sup>3</sup> eM©, Rwgi gvWjK Ges f~wg Awd†mi †jvK†i wb†q Afqvk<sup>a</sup>g I evdvi GjvKvi mxgVbv wbav©iY K†i evuk ev Kswm†Ui wcvjvi, jvj cZvKv BZ"vw` w`†q mxgVbv wba©viY I wPwýZ Ki†Z n†el - 'vbxq Ges cvk!©eZx© GjvKvi mKj†K we†kl K†i grm"Rxex I Ab"vb" e"enviKvix†i G e"vcv†i Rvbv†Z n†el GR†b" gvBwKs, †cvóvwis, wej†evW©, Av†jvPbv mfv ev Ab" †Kvb Dchy<sup>3</sup> cš'v Aeja^b Ki†Z n†el

4. KvVv Ges Ab"vb"t evuk, Wvj-cvJv BZ"vw` Afqvk<sup>a</sup>†gi wbivcËv cÖ`vb Ki†e, gv†Qi Kv†Q Zv†i Avk<sup>a</sup>q`vb AvKl©Yxq K†i Zzj†el Afqvk<sup>a</sup>†gi mǎú~Y© GjvKv Ry†o `j-KvVv cÖ`vb Kiv †h†Z cv†i ev eo Afqvk<sup>a</sup>†gi †††† - 'v†b - 'v†b `j-KvVv †`qv †h†Z cv†i| gv†Qi Rb" Avk<sup>a</sup>q`jwU†K Dchy<sup>3</sup> K†i Zzj†Z KPzwicVbv ev Ab"vb" RjRDw™ç`l e"envi Kiv nq| evuk ev Wvjcvjv mg~†n %okevj R†b¥ hv gv†Qi Rb" GKUv evowZ AvKl©Y| mvaviYZt evu†ki LÛ,†jv k<sup>3</sup> K†i gvwU†Z cyu†Z †`qv nq Ges Wvj-cvJv ,wj†Kl gvwU†Z cyu†Z †`qv nq - Gfv†e GKwU GjvKv†K `j KvVv w`†q myiw†Z Kiv nq|
5. gvQ i†vi evowZ e"e`vt Avk<sup>a</sup>qMÖnYKvix gvQ†i evowZ wbivcËv †`qvi Rb" wewfbœ cš'v Aeja^b Kiv †h†Z cv†i| †hgb evuk wbwg©Z LvuPvi mvwi| GwU†Z GKwU eo LvuPvi wfZi †QvU LvuPv Zvi †fZi Avil †QvU LvuPv Gfv†e A†bK,†jv LvuPv e"envi Kiv nq hv†Z wfbœ wfbœ AvK...wZi gvQ wfbœ wfbœ LvuPvq Avk<sup>a</sup>q MÖnY Ki†Z cv†i| G†Z gvQ Pzwi nlqv †hgb eÜ n†Z cv†i Avevi eo gvQ †QvU gvQ†K mn†R †L†Z cvi†ebv| Avevi †Kv\_vl †Kv\_vl ÖKswmU †UU&iv-cW&Ó Ges cvBc e"envi Kiv nq| G,†jv `xN©`vqx Ges mn†R GK - 'vb †\_†K Ab" - 'v†b †bqv hv†e bv|
6. cvnvivt AvKl©Yxq I wbivc` Avk<sup>a</sup>q`j †c†q Afqvk<sup>a</sup>†g Aí RvqMvq A†bK gvQ GKw†Z nq hv gvQ wkKvwi†i Kv†Q Lye †jvfbxq nq| G R†b" we†kl K†i i©` †gŠmy†g 4/5 gvm cvnvivi e"e`v Kiv cÖ†qvRb| G R†b" - 'vbxq wek!` e"vw<sup>3</sup>†i - 'vbxq msMV†bi gva"†g cvnviv`vi wnmv†e wb†qvM Kiv †h†Z cv†i|

### Afqvk<sup>a</sup>g - 'vc†bi LiP †Kgb n†e

Afqvk<sup>a</sup>†g - 'vc†bi LiP wnmv†e m†PZbZv m,,wó †\_†K i" K†i evuk, Wvjcvjv, wcvjvi, mxgVbv wbav©iY, e"e`vcbv BZ"vw` ai†Z n†el wb†æ wewfbœ AvK...wZi Afqvk<sup>a</sup>g - 'vc†bi Rb" wK iKg LiP jvM†Z cv†i Zvi GKwU aviYv †`qv nj|

Afqvk <sup>a</sup> †gi AvK...wZ	cÖv_wgK m†PZbZv	Wvjcvjv cZvKv Ges	cybtLbb I Wvj-KvVv	KwgDwbw U wgwUs	†gvU LiP (UvKv)
------------------------------------	--------------------	----------------------	-----------------------	--------------------	--------------------



	m,,wó (UvKv)	mvBb±evW © (UvKv)	cybt`'vcb (UvKv)	motivation (UvKv)	
‡QvU KvVv	1000	5000	3000	1000	10000
Afqvk <sup>ag</sup> b`xi Kzg	1000	3000	3000	1000	4000
Afqvk <sup>ag</sup>	2000	10000	20000	5000	37000
wej Afqvk <sup>ag</sup>	2000	50000	50000	10000	112000
eo b`x‡Z	5000	50000	100000	20000	175000
Afqvk <sup>ag</sup> Rjgnvj	20000	100000	100000	30000	250000
Afqvk <sup>ag</sup> `vqx					
Afqvk <sup>ag</sup>					

óvd Ges mswk-ó Ab` wKQy LiP GLv‡b aiv nq bvB|

*Drmt W. gywbi, wbev©nx cwIPvjK, Zviv|*

### **Afqvk<sup>a</sup>‡gi mgm`v Ges SzuwK**

mwVKfv‡e my`i K‡i GKwU Afqvk<sup>ag</sup> `vc‡bi c‡il bvbv mgm`v †`Lv w`‡Z cv‡il mswk-ó mKj‡K †m e`vcv‡i mZK© \_vK‡Z n‡e Ges cÖ‡qvR‡b e`e`v MÖnY Ki‡Z n‡e| wKQy SuzwK Ges mgm`vi K\_ GLv‡b Zz‡j aiv njt

1. So-SÁv
2. ‡XD
3. `xN© Abve,,wó
4. ‡mu‡Pi Rb` cvwb e`envi
5. mvgwRK ØÜ
6. Pzwi BZ`vw`

### **W<sup>a</sup>vdU Awa‡eb-1**

**Value Chain development cÖwµqv Abymi‡Yi gva`‡g  
grm`Rxwe‡i Avw\_©K Dbœaqb |**

**cUf'wg** : Value Chain development n‡"Q AskMÖnYg~jK evRvi Dbœaqb cÖwµqv| evRv‡i cÖ‡Z`K `ae` Drcv`b l µq weµ‡qi mv‡\_ wewfbœ ch©v‡q GKvwaK e`w<sup>3</sup> ev cÖwZôvb RwoZ hviv wewfbœfv‡e D<sup>3</sup> `a‡e`i evRvi wbqš¿Y K‡i \_v‡K| GK R‡bi mv‡\_ Aci R‡bi cÖZ`¶ wKsev c‡iv¶ m¸úK© ev †hvMv‡hvM i‡q‡Q Ges GKRb Ab`R‡bi Dci wbf©ikxj| GB †hvMv‡hvM‡K hw` Avgiv G‡K †`Lvi †Pón Kwi Zvn‡j GKwU †PB‡bi ifc †`L‡Z cvB| GB †PB‡bi wewfbœ `v‡b wewfbœ RvqMvq wewfbœ e`w<sup>3</sup> ev cÖwZôvb Ae`vb K‡i| GB e`w<sup>3</sup> ev cÖwZôvb ,‡jvB n‡"Q GKUI| Avi †Kvb `a‡e`i wewfbœ GKUI‡i g‡a` Avš— m¸úK©B n‡"Q D<sup>3</sup> `a‡e`i Value Chain | Value Chain G G‡K Ac‡ii mv‡\_ KZ Mfxi fv‡e RwoZ, †K Kwi Dci wbf©ikxj, †Kv\_vq m¸úK© †ewk kw<sup>3</sup>kvjx nlqv `ikvi, †Kvb —‡ii mgm`v wK, D<sup>3</sup> `a‡e`i Dbœaq‡bi Rb` †Kvb —‡i Avil wK ai‡bi

mv†cvU© `iKvi Zv wba©viY I cÖ†qv†Mi gva`†g Avw\_©K Dbœqb  
Ki†Z Value Chain development cÖwµqv Abymib Kiv nq |

D†ĭk` t Value Chain development cÖwµqv cÖ†qv†Mi gva`†g grm  
Rxwe†`i Avw\_©K  
Dbœqb mvab

mgq t 1 N›Uv

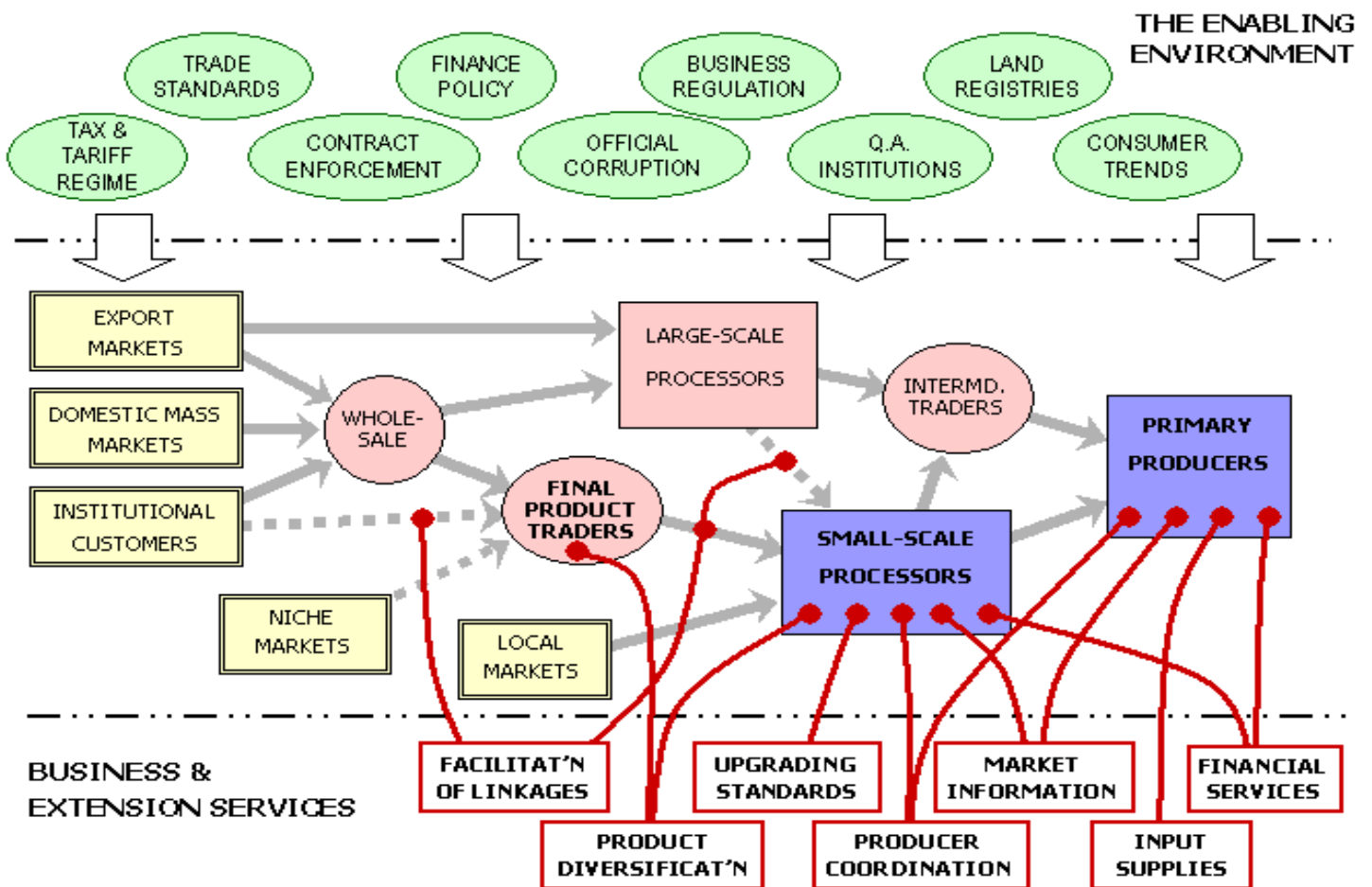
cxwZ t AskMÖnbg~jK Av†jvPbv, †QvU `†j KvR, gv†K©U g`vc ^Zix  
, Dc`'vcbv BZ`vw`

DcKiY t gvK©vi, PK,PvU© †ccvi/mv`v KvMR, †evW©

cÖwµqv :

**avc-1 :**

Av†jvPbvi ĭi“†ZB mnvqK mevi mv†\_ Av†jvPbv K†i grm” e`emvi  
mv†\_ †Kvb †Kvb GKUi ev e`emvwqiv (†hgb: BbcyU mvc-vBqvi,  
dwoqv, cvBKvi, U<sup>a</sup>vY†cvU©, mvwf©m †cÖvfvBWvi, cÖ†mmi,  
Ab`vb”) RwoZ Av†Q Zv†`i m<sup>a</sup>ú†K© aviYv cÖ`vb Ki†eb Ges  
†R†bwiK gv†K©U g`vcwU †`wL†q g`v†ci wZbwU Ask m<sup>a</sup>ú†K©  
we†k-lb Ki†eb|



**gv†K©U g˘vcwU †hfv†e e˘vL˘v Ki†Z n†e:**

cÖ\_†g evRvi Pvwn`vi P˘v†bjmg~n e˘vL˘v Ki†Z n†e| Gici Drcv`bKvix †\_†K wKfv†e †kl ch©š— Kvi Kv†Q wKfv†e †cuŠQvq Zvi e˘vL˘v Ki†Z n†e| evRv†ii †k<sup>a</sup>Yx wefvM m<sup>a</sup>ú†K© Av†jvPbv Ki†Z n†e| †hgb:

**ißvbx evRvi:** D˘Pg~j˘ Ges e,,nr evwYR˘

**Af˘š—ixY evRvi :** kni ev Dckn†i emevmiZ ga˘weË I wbæweË Av†qi †fv<sup>3</sup>v

**cÖvwZôvwbK †µZv:** miKvi, ˘ `vbxq KZ©...c¶, ˘ ‹zj, GbwRI, Ab˘vb˘ ms˘ `v

**wbm gv†K©U:** Avjv˘v ai†bi, AígvÍ, D˘Pg~†j˘i evRvi

˘ `vbxq LyPiv we†µZv: ˘ `vbxq †`vKvb`vi, nKvi BZ˘vw`

- e˘emvi cwi†ek m<sup>a</sup>ú†K© Av†jvPbv

e˘emvi cwi†ek ej†Z GKUv e˘emvi Dbœeq†bi ev e,,wx jv†fi Rb˘ miKvix wKQy bxwZ ev AvBb ev KZ,wj wbqg-Kvbyb i†q†Q| hvi wfwË†Z †h †Kvb e˘emv ˘ ^vfvweKfv†e P†j wKsev euvavMÖ˘ ˘ nq A\_©vr e˘emvwU fvjfv†e P†j bv| Avevi miKvix wKQy myweav i†q†Q hv Avgv†`i Rvbv bvB †m,†jvi e˘envi n†j e˘emv fvjfv†e Pj†Z cv†i BZ˘vw`|

- wewWGM m<sup>a</sup>úvwK©Z Av†jvPbv

g˘v†ci GB As†k GKwU e˘emvi cÖmvi ev †MÖv\_ nlqvi Rb˘ †h mKj mvwf©m cÖ†qvRb ev evRv†i i†q†Q †m welq,†jv D†j-L Kiv n†q†Q| †hgb: gv†K©U wj†KR, e˘vKqvW© I dilqvW© wj†KR, cY˘ Drcv`b ev eûgyLxKiY, c†Y˘i , YMZ gvb, FY BZ˘vw`| G mvwf©m,†jvi g†a˘ †Kvb,†jv evRv†i i†q†Q Ges e˘emvi cÖmv†ii Rb˘ Av†iv wK wK mvwf©m cÖ†hvRb i†q†Q †m mvwf©m,†jv Luy†R †ei Kiv hv†Z †QvU †QvU e˘emv,†jv†K wU†K \_vKvi Rb˘ cÖ†qvRb|

**avc-2:**

GB av†c AskMÖnbg~jK gv†K©U g˘vc ^Zwi Kiv n†e | Av†jvPbv ii“ Kivi Av†M c~†e©i gv†K©U †PB†bi m~Í a†iB Av†jvPbv Ki†Z n†e| mevB†K †Qv&U `†j fvM K†i w`†q cÖ†Z˘KwU `j Avjv˘v Avjv˘vfv†e gv†K©U g˘vc Askb Ki†e| cÖÖwZwU `†ji Askb †k†l n†j eo `†j Dc˘ `vcb Ki†e Ges GK˘j Ab˘˘j†K wdWe˘vK w`†e|D<sup>3</sup> Av†jvPbv †kl n†j †h †Kvb GKwU g˘vc†K mK†ji Information w`†q g˘vcwU c~Y©v<sup>1/2</sup> Ki†Z n†e|

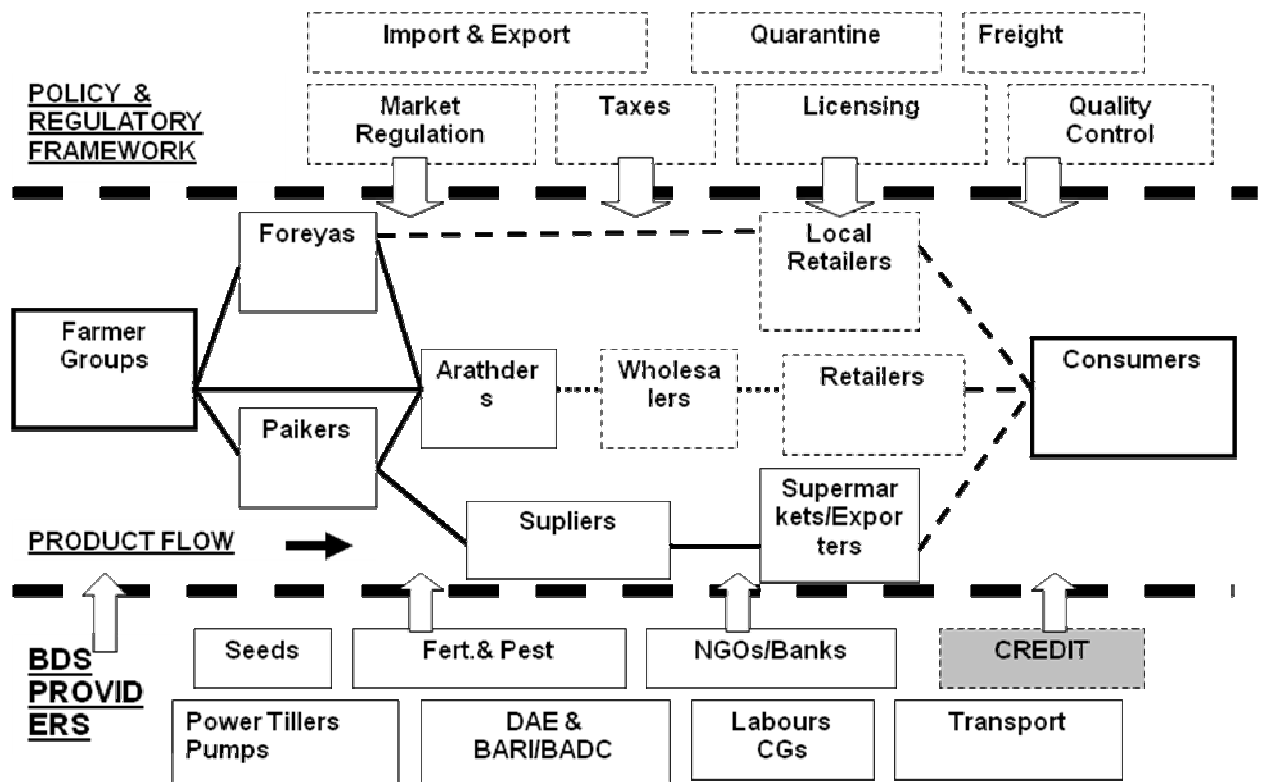


Fig. 3: Emerging Value Chain System

**avc-3:**

gv†K©U †PB†bi wewfbœ Actor †i mgm“v l mæœve” mgvav†bi Rb” Av†jvPbv Kiv|

GB Awa†ekb †k†l AskMÖnYKvixiv gv†K©U †PB†bi wewfbœ mgm“v wPwýZ Ki†Z cvi†eb

Ges mæœve” mgvavb we†ePbv Kiv hvq Zv Av†jvPbv K†i †ei K†i Avb†Z cvi†eb l

GKwU Kg©cwiKíbv Ki†Z cvi†eb|

Fish farmer & fishers

Problems	Probable Solutions

*Fish businessman (Arotdar, Pyker & Retailer)*

Problem	Probable Solution

*Fry businessman:*

Problems	Probable Solutions

*Input Supplier:*

Problems	Probable Solutions

**avc-4:** `jxq Av†jvPbv Kivi c†i †QvU `j Dc<sup>-</sup>'vcbv Ki†e | mvgw÷K Av†jvPbvi wfwË†Z mgm<sup>~</sup>vi mgvav†bi c`†¶c,†jv †ei Kiv Ges mK†ji ga<sup>~</sup> †\_†K GKRb Dc<sup>-</sup>'vcb Ki†e|

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