প্রশিক্ষণ মডিউল

দেশীয় প্রজাতির ছোট মাছের চাষ ব্যবস্থাপনা ও সংরক্ষণ

মৎস্য অধিদপ্তরের প্রাতিষ্ঠানিক দক্ষতা জোরদারকরণ প্রকল্প

মৎস্য অধিদপ্তর, বাংলাদেশ

cwk¶Y gwWDj

†`kxq cRvwZi †QvU gvQPvI e¨e¯vcbv I msi¶Y

Rb, 2009 wL.

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Department of Fisheries, Bangladesh

cwk¶Y gwWDj

†`kxq cRwZi †QvU gvQPvI e¨e¯vcbv I msi¶Y

cavb m¤úv`K

†gvt iwdKj Bmjvg
gnvcwiPvjK, grm¨ Awa`ßi

m¤úv`bv cwil`
†gvt Ave`j Lv‡jK
†gvt BmgvBj
bvwmiDwÏb †gvt ûgvqb
‰mq` Awid AvRv`
†gvt Awgbj Bmjvg
†gvt Avej nv‡kg mgb
†gvt BDmd Lvb
i‡gk P› ` gÛj
†gvt wmivRj Bmjvg
W. G. †K. BDmd nvi"b

gwWDj cYqb
bvwmiDwÏb †gvt ûgvqb
G. †K. Gg. wmwÏK
†gvt KwdjDwÏb KvBqv
†gvt kvgm¾vgvb Lvb
Gm. G. kvgxg Avngv`
mbxj P› ` †Nvl
†gvt BDmd Lvb
†gvt †ZvdvR DwÏb Avn‡g`
W. †gvt gwbi"¾vgvb
†gvt Ave`i ingvb
Rwin` cvi‡fR mLb
W. wbgj P› ` ivq

Kw¤úDUvi K‡¤úvR t †gvt Bw`m Avjx cavb

c"Q` I AjsKiY t †gvt BDmd Lvb

cKvkKvj t Rb, 2009 wL.

cKvk msL¨v t 1,000 Kwc

cKvkbvq t

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Department of Fisheries, Bangladesh

g`‡Y t wjLb wc›Uvm, 20/G, ï µvev`, XvKv|

m¤úv`Kxq

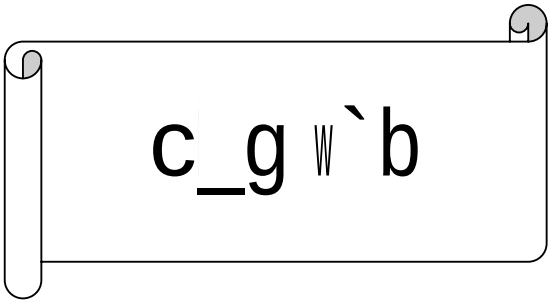
evsjv‡`‡ki gvb‡li ‰`b»`b cwYR Awg‡li Pwn`v ci‡Y gvQ GKwU ¸iæZcY fwgKv cvjb K‡i Avm‡Q| eZgv‡b mviv †`‡k cvq `k nvRv‡ii AwaK wewfb ˆewkó I AvqZ‡bi cvKwZK Rjvkq i‡q‡Q, †h¸‡jv Rjgnvj bv‡g mwewaZ| GmKj Rjgnvj¸‡jvi wmsnfvMB miKvix ivR¯wfwËK e¨e¯vcbv Kb‡m‡Þ cwiPwjZ n‡"Q| A_P GmKj Rjgnvj¸‡jv ‰RewfwËK e¨e¯vcbvi gva¨‡g cwiPvjbv Kiv †M‡j ïa gvÎ GLvb †_‡K K‡qK ¸Y AwZwi³ gvQ Drcv`b Kiv m¤e| GQvovI i‡q‡Q wecj msL¨K cKi I Avave× Rjvavi †hLv‡b Pvl n‡"Q bvbv cRwZi gvQ I wPswo| G wekvj Af¨šÍixb Rjvkq¸‡jv‡Z GK mgq 260 cRwZi gvQ I 24 cRwZi wPswo cvIqv †hZ| wKš Kv‡ji weeZ‡b cKwZMZ I gbl¨ mó wewfb Kvi‡Y AvR cvKwZK g³ Rjvkq n‡Z gv‡Qi Drcv`b I Rxe‰ewPÎ¨ ûgwKi g‡a¨ weivRgvb| A_P †`‡ki mvaviY gvb‡li Kv‡Q Awg‡li Drm wn‡m‡e †`kxq cRwZi †QvU gvQ GLbI Ab¨Zg ¯vbwU `Lj K‡i Av‡Q| PvIev‡`i †ÿ‡Î we‡`kx cRwZmn wewfb cKi I Rjvavi¸‡jv‡Z gvÎ 10-15 cRwZi gvQ Pvl n‡q _v‡K| Aewkó cRwZ¸‡jv cvKwZK fv‡e Drcb n‡q _v‡K| ZvB wmsnfvM cRwZi gvQB cvKwZK Drm †_‡K G‡m _v‡K| wKš w`b w`b cvKwZK Avevm¯j¸‡jv webó ev aŸsm nIqvi Kvi‡Y G me gv‡Qi Drcv`b w`b w`b nvm cv‡"Q| ZvQvov evo‡Q RbmsL¨v- wKš gv‡Qi Drcv`b †m nv‡i evo‡Q bv| A_P G †`‡ki mvaviY gvbl ^`b»`b Rxe‡b cwYR Awg‡li Pwn`v ci‡Yi †ÿ‡Î GmKj †QvU gv‡Qi DciB wbfi K‡i _v‡K| †`kxq cRwZi †QvU gv‡Qi cwógvb we‡kl K‡i wewfb LwbR Dcv`vb, wfUwgb BZ¨vw` PvIKZ grm¨ cRwZi †P‡q A‡bK¸‡b †kq| µgeagvb Rb‡MvôxI cwbR Awg‡li †hvMvb ew× I Rxe‰ewPÎ msiÿb K‡i Gi Drcv`b evov‡Z bv cvi‡j fwel¨‡Z †`‡ki gvb‡li Awg‡li NvUwZ ciY Kiv AZ¨šÍ KwVb n‡e| Avi Gi Rb¨ c‡qvRb jvMmB chw³MZ Ávb Ges wewfb D"P djbkxj †`kxq cRwZi gv‡Qj PvIev` e¨e¯vcbv I msiÿb chw³, hv ïa gvÎ cwkÿ‡Yi gva¨‡gB ARb Kiv m¤e|

Awg †R‡b Avb»`Z n‡qwQ †h, Ògrm Awa`ß‡ii cwZôwbK `ÿZv †Rvi`viKiY cKíÓ n‡Z †`kxq †QvU gv‡Qi PvI e¨e¯vcbv I msiÿY wel‡q GKwU cwkÿY gwWDj cbqb Kiv n‡q‡Q| D³ cwkÿY gwWDjwU cYqb I m¤úv`‡b grm¨ Awa`ßi Gi gvV chv‡qi KgKZvmn Ab¨vb¨ hviv mgq I kg w`‡q‡Qb Zv‡`i‡K Awg AvšÍwiK ab¨ev` Rvbw"Q| †`kxq cRwZi †QvU gv‡Qi Rxe-ˆewPÎ msiÿY I Gi PvI Kvhµg m¤cmvi‡Yi j‡ÿ¨ cYxZ gwWD‡j †h chw³ weaZ Kiv n‡q‡Q Zvi mdj c‡qvM GmKj gv‡Qi Drcv`b cew×‡Z mnvqK I KvhKix fwgKv ivL‡Z mÿg n‡e e‡j Avkv Kwi|

Ò‡`kxq cRwZi †QvU gvQ PvI e¨e¯vcbv I msiÿYÓ welqK cwkÿY gwWDjwU eZgvb mg‡qi Pwn`vi mv‡_ AZ¨šÍ msMwZcY| cvKwZK Rjvkqmn cKi-`xN‡Z e¨e¯vcbvMZ DrKlZv mvab Ges PvI chw³ m¤cmviY K‡i GmKj gv‡Qi Rxe‰ewPÎ msiÿY I Drcv`b ew×i gva¨‡g †`kxq cRwZi gv‡Qi esk wUwK‡q ivLv m¤e| Awg wekvm Kwi cYxZ cwkÿY gwWDjwU `ÿ Rbej mwói gva¨‡g †`kxq †QvU gvQ Drcv`b I msiÿ‡Y AZ¨šÍ mnvqK Ae`vb ivL‡Z cqvmx n‡e|

(†gvt iwdKj Bmjvg)
gnvcwiPvjK
grm¨ Awa`ßi, evsjv‡`k

mwP


c_g W`b

Awa‡ekb cwiKíbv

w`b t 1 mgq t 08:00- 09:00 †gqv`Kvj t 60 wgwbU

wk‡ivbvg	t	wbeÜb I †Kvm D‡Øvab
Awfó`j	t	grm¨ Awa`ßi I Ab¨vb¨ ms¯vi KgKZve›`
j¶¨	t	cwk¶Yv_x‡`i wbeÜb I Avbôwb bKfv‡e †`kxq cRwZi †QvU gv‡Qi PvI e¨e¯vcbv I msi¶Y welqK cwk¶Y †Kvm D‡Øvab Kiv hv‡Z cwk¶K, cwk¶Yv_x I Avgw šZ AwZw_‡`i gv‡S cwiwPwZ N‡U Ges †Kvm m¤ú‡K BwZevPK g‡bvfv‡ei mwó nq|
D‡Ïk¨	t	G Awa‡ek‡b- • cwk¶Yv_xMY mwb`ó di‡g wb‡R‡`i bvg, wVKvbv wbeÜb Ki‡Z cvi‡eb| • cwk¶K, cwk¶Yv_x Ges Avgw šZ‡`i gv‡S cwiwPwZ NU‡e|  • cwk¶Yv_x I Dcw¯Z Ab¨vb¨‡`i gv‡S †Kvm m¤ú‡K BwZevPK g‡bvfve mwó n‡e|

welqmwP	Av‡jvP¨ welqmgn	cwk¶Y c×wZ	mgq
fwgKv			5 wgwbU
	• ¯vMZ • ï‡f”Qv wewbgq • cwiPq ce • ‡Kvm m¤úwKZ cv_wgK avivYv	e³Zv	
welqe¯			50 wgwbU
	• cwk¶Y Avbôwb bKfv‡e D‡Øvab • mwb`ó di‡g cwk¶Yv_x‡`i bvg wbeÜb • GKRb cwk¶Yv_x KZK †Kv‡mi Dci msw¶ß e³e¨ c`vb • cavb AwZw_ KZK †Kvm D‡Øvab	e³Zv I GKK KvR	
mvi ms‡¶c			5 wgwbU
	• cwk¶K KZK Avgw šZ AwZw_ I cwk¶Yv_x‡`i ab¨ev` Ávcb • cieZx Awa‡ek‡b mweKfv‡e †Kv‡mi †gŠwjK AeKvVv‡gv Ges wKQ Avblvs wMK welqw` wb‡q Av‡jvPbv Kiv	e³e¨	
cwk¶Y mnvqK mvgMx t e¨vbvi, wbeÜb dig, cwk¶Y mvgMx, BZ¨vw`			

†`kxq cRwZi †QvU gvQ Pvl e¨e¯vcbv I msi¶Y †Kvm
grm¨ Awa`ßi, evsjv‡`k

K. †Kejgvî Awd‡m e¨envi‡ii Rb¨

†Kvm wk‡ivbvg | †`kxq cRwZi †QvU gvQ Pvl e¨e¯vcbv I msi¶Y †Kvm | †Kvm AvBwW bs |

cwk¶‡Yi ¯vb | cwiwPwZ bs |

cwk¶‡Yi †gqv` | n‡Z | chš

cwk¶‡Ki bvg I c`ex | 1.

2.

3.

L. cwk¶Yv_xMY ciY Ki‡eb

Full Name
c‡iv bvg

Date of birth
Rb¥ ZwiL (w`b/gvm/eQi)

Designation
c`ex

Address
†hvMv†hv‡Mi wVKvbv

Telephone / Mobile No. (if any)
†Uwj‡dvb / †gvevBj bs (hw` _v‡K)

¯v¶i

w`b gvm mvj

†`kxq cRwZi †QvU gvQ Pvl e¨e¯vcbv I msi¶Y †Kvm
grm¨ Awa`ßi, evsjv‡`k

†Kv‡mi †gqv`Kvj : ..... n‡Z ..... chš|

cwk¶Y †K›` .....

wbeÜb dig

µ.bs	bvg	Rb¨ ZwiL	wk¶vMZ †hvM¨Zv	c`ex	eZgvb Kg¯j		¯v¶i
					Dc‡Rjv	†Rjv	
1	2	3	4	5	6	7	8
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

cwk¶‡Ki bvg I ¯v¶i : 1. ———————————— 2. ————————————

ZwiL :————————————

MYcRvZšx evsjv‡`k miKvi
grm¨ Awa`ßi, evsjv‡`k
†Kv‡mi mgqmwP

cwk¶Y †gqv` t 5 w`b

†Kvm t †`kxq cRwZi †QvU gvQ Pvl e¨e¯vcbv I msi¶Y

mgh / w`b/Zwi L	8:00-9:00	9:00-10:00	10:00-11:00	11:00-11:15	11:15-12:15	12:15-13:15	13:15-14:00	mvÜ¨Kvjxb KvR
w`b - 1	wbeÜb I D‡Øvabx Abôvb	cvK gj¨vqb, †Kvm cwiwPwZ, cwk¶Y cZ¨vkv I bxwZgvjv	†`kxq cRwZi †QvU gv‡Qi ¸i“Z I Pv‡li m¤vebv	Pv weiwZ	†`kxq cRwZi †QvU gv‡Qi mvaviY cwiwPwZ	Pvl‡hvM¨ †`kxq cRwZi †QvU gv‡Qi Rxewe`¨v	†QvU gv‡Qi Rxe‰ewPÎ¨ I msi¶Y †Kŝkj	mvÜ¨Kvjxb KvR
w`b - 2	cbiv‡jvPbv, cwZfve I Dc¯vcbv	†`kxq Rv‡Zi ‡QvU gvQ msi¶‡Y Afqvk‡gi fwgKv	†QvU gv‡Qi cRbb I †cvbv Drcv`b †Kŝkj	Pv weiwZ	†QvU gv‡Qi †cvbv msMn, cwienb I †kvab	gjv I cwUi Pvl e¨e¯vcbv	i“B RvZxq gv‡Qi mv‡_ evUvi wgk Pvl	mvÜ¨Kvjxb KvR
w`b - 3	cbiv‡jvPbv, cwZfve I Dc¯vcbv	avb ‡¶‡Z †QvU gv‡Qi Pvl	‰K, wks I gv¸i gv‡Qi Pvl e¨e¯vcbv-1	Pv weiwZ	‰K, wks I gv¸i gv‡Qi Pvl e¨e¯vcbv-2	cve`v I ¸jkv gv‡Qi Pvl e¨e¯vcbv	†QvU gvQ AvniY, evRviRvZKiY I cwµqvRvZKiY	mvÜ¨Kvjxb KvR
w`b - 4	cbiv‡jvPbv, cwZfve I Dc¯vcbv	GBPAvBwf-GBWm cwZ‡iva/gvQ Pv‡l bvixi AskMnY	gvV cwi`kb					gvV cwi`kb cwZ‡e`b ^Zix
w`b - 5	cbiv‡jvPbv, cwZfve I Dc¯vcbv	`‡hvM e¨e¯vcbv	†Kvm cbiv‡jvPbv	Pv weiwZ	†Kvm gj¨vqb I cwk¶Y cieZx gj¨vqb	mgvcbx Abôvb I mb`cÎ weZiY		

Awa‡ekb cwiKíbv

wW`b t 1 mgq t 09:00- 10:00 †gqv`Kvj t 60 wgwbU

wk‡ivbvg	t	cvK gj¨vqb, †Kvm cwiwPwZ, cwk¶Y cZ¨vkv I bxwZgvjv
Awfó `j	t	grm¨ Awa`ßi I Ab¨vb¨ ms¯vi KgKZve›`
j¶¨	t	G Awa‡ek‡b cwk¶Yv_x‡`i‡K †Kv‡mi cv_wgK Ávb hvPvB, †Kv‡mi †gŠwjK welqw`, †Kv‡mi mv‡_ m¤úKh³ Avblvswl MK welqvejx, cwk¶Y cZ¨vkv wbi“cY, cwk¶YKvjxb mg‡qi Rb¨ cwk¶Y bxwZgvjv cYqb Ges †Kv‡mi mweK Kvhµ‡g AskMn‡Y DØ×KiY Ges †Lvjv‡gjv eÜZcY cwi‡ek mwói m‡hvM c`vb|
D‡Ïk¨	t	G Awa‡ek‡b AskMnYKvixMY- ▪ G‡K Aci‡K fvjfv‡e Rvb‡Z I eS‡Z cvi‡e| ▪ mwbw`ó ckcÎ e¨envi K‡i cwk¶Y ce gj¨vqb Ki‡Z cvi‡e| ▪ ‡Kv‡mi j¶¨ I D‡Ïk¨ m¤ú‡K ej‡Z cvi‡e| ▪ ‡Kvm †_‡K Zv‡`i cZ¨vkv Kx Zv e¨³ Ki‡Z cvi‡eb| ▪ cwk¶YKvjxb mg‡q mgqvbeZxZvmn Ab¨vb¨ wbqgvejx †g‡b Pjvi Rb¨ GKwU bxwZgvjv cYqb Ki‡Z cvi‡eb

welqmwP	Av‡jvP¨ welqmgn	cwk¶Y c×wZ	mgq
fwgKv			4 wgwbU
	• ¯vMZg • cwk¶K KZK msw¶ßfv‡e †Kv‡mi ¸i“Z		
welqe¯			50 wgwbU
	• cwk¶Y ce gj¨vqY • cwk¶Y cZ¨vkv wbi¡cb • †Kv‡mi j¶¨ D‡Ïk¨ • cwk¶Y bxwZgvjv • cvÎwnK Rvbvj, Mwd· †evW, gW wgUvi I cbiv‡jvPbv	wbawiZ M“ccÎ wdcKvW e³Zv GKK Abkxjb	
mvi ms‡¶c			6 wgwbU
	• D‡Ïk¨ hvPvB • cieZx Awa‡ek‡bi mv‡_ ms‡hvM • cwk¶Y wmwWDj weZiY • ab¨ev` Ávcb		

cwk¶Y mnvqK mvgMx t †nvqvBU †evW,gvKvi, wfcKvW, ckcÎ, cwk¶Y wmwWDj BZ¨vw`|

†`kxq cRwZi †QvU gv‡Qi Pvl e¨e¯vcbv I msi¶Y cvVK gj¨vqb ckcÎ

mKj c‡ki gvb mgvb| mwVK DË‡ii cv‡k wUKwPý (√) w`b

cYgvb - 100 mgq - 25 wgwbU

bvg.....c`ex.....

Kg¯j.....

01| SIS Gi cY i¡c †KvbwU ?
- K) Small Indian Species
- L) Small Indigenous Species
- M) Scaleless Indigenous Species
- N) Short Indigenous Species

02| evsjv‡`‡k SIS gv‡Qi msL¨v KZ?
- K) 180-190wU
- L) 140-150wU
- M) 200-210wU
- N) 130-140wU

03| †QvU gv‡Qi AvKvi KZ ?
- K) 35 †mwg. Gi Dc‡i
- L) 20 †mwg. Gi bx‡P
- M) 25 †mwg. chš
- N) 30-40 †mwg

04| †KvbwU wRIj gvQ ?
- K) †Zjwcqv
- L) cvsMvm
- M) gv¸i
- N) Dc‡ii †KvbwUB bq

05| †Kvb gv‡Q Avqi‡bi cwigvY me‡P‡q †ewk ?
- K) †Zjwcqv
- L) cvsMvm
- M) gv¸i
- N) wks

06| †KvbwU K¨vU wdk bq ?
- K) wks
- L) AvBo
- M) ‰K
- N) Dc‡ii me ¸‡jvB

07| gvQ Pv‡li me‡P‡q AbKj wcGBP gvÎv †KvbwU ?
- K) 3.5-8.5
- L) 7.5-8.5
- M) 4.0-10.0
- N) 6.5-9.0

08| Mjkv gv‡Qi ^eÁwbK bvg †KvbwU ?
K) *Mystus vittatus*
M) *Mystus sutio*
L) *Mystus cavasius*
N) *Mystus armatus*

09| grm¨ Afqvkg ¯vc‡bi d‡j wK N‡U ?
K) gvQ aiv nq
L) gv‡Qi †ivM fv‡jv nq
M) RjR Rxe‰ewPÎ¨ msiw¶Z nq
N) grm¨Rxex‡`i Avq K‡g hvh

10| wks I gv¸i gv‡Qi mevbKj cRbb Kvj ?
K) gvP-Gwcj gvm
L) †m‡Þ¤i-A‡±vei gvm
M) Rb-RjvB gvm
N) Dc‡ii †Kvbwb UB bq

11| ¯x wks gvQ‡K c‡Ywu`Z cRb‡b I fwc‡gi gvÎv
K) 2-3 wg.Mv./†KwR gvQ
L) 6-8 wg.Mv./†KwR gvQ
M) 12-14 wg.Mv./†KwR gvQ
N) Dc‡ii †Kvbwb UB bq

12| wks, gv¸i I ^K gvQ Pv‡l m¤úiK Lv‡`¨ Awg‡li gvÎv KZ nIqv fv‡jv ?
K) 30-35%
L) 20-25%
M) 45-50%
N) 12-15%

13| evUv gv‡Qi wbwl³ wWg KZ N›Uvq d‡U?
K) 24-30 N›Uv
M) 14-16 N›Uv
N) 40-48 N›Uv
L) 4-8 N›Uv

14| bvmwi cK‡i cwZ kZ‡K wks gv‡Qi gR` NbZ?
K) 2,000-2,500wU
L) 8,000-1,000wU
M) 4,00-500wU
N) 1,500-2,500wU

15| wks gv‡Qi †iY †cvbv‡K cv_wgK Levi wnmv‡e wK Lvlqv‡bv nq ?
K) Kv÷vW
L) ‰L‡ji ¸ov
M) wUDwe‡d·
N) Dc‡ii †Kvbwb UB bq

16| †Kvbwb Rxe^ewPÎ¨ msi¶‡Yi Rb¨ c‡qvRb ?
K) mnbkxj gvÎvq gvQ AvniY
L) Kv‡i›U Rv‡ji e¨vcK e¨envi
M) AcwiKwíZ grm¨ Pvl m¤cmviY
N) Dc‡ii me¸‡jvB

17| †Kvb Dcvqwu gvQ Pwi †iv‡a mnvqK ?
K) Ab¨‡`i mv‡_ cwZ‡hvwMZvq Ask wb‡q cKi wjR †bqv
L) mgv‡Ri mK‡ji mv‡_ DËg m¤úK eRvq bv ivLv
M) mvgwRK Ø‡›Ø Rwo‡q cov
N) Dc‡ii †KvbwUB bq

18| †Kvb KvRwU Ki‡j evRv‡i gv‡Qi `vg †ewk cvlqv hvq ?
K) †QvU eo gvQ evQvB K‡i evRv‡i bv cvVv‡j
L) evRv‡i cvVv‡bvi A‡bK Av‡M †_‡K gvQ a‡i †i‡L
M) Rxeš gvQ evRviRvZ Ki‡j
N) evRvi `i bv †R‡b evRviRvZ Kiv

19| wks gvQ †Kvb M‡Yi Ašf³ ?
K) Perciformes
L) Cypriniformes
M) Siluriformes
N) Clupeiformes

20| Climbing perch †Kvb wU ?
K) %K
L) wks
M) gv¸i
N) UwK

21| AwZwi³ kvm AsM †Kvb gv‡Qi Av‡Q ?
K) %K
L) wks
M) gv¸i
N) Dc‡ii me¸‡jvB

22| **Vitamin A**-Gi Afv‡e wK †ivM nq ?
K) †ewi‡ewi
L) MjMÛ
M) ivZKvbv
N) Dc‡ii ‡KvbwUB bq

23| †cvbv cwien‡bi mgq wK Kvi‡Y gviv hvq ?
K) Aw·‡Rb ¯ízv
L) G¨v‡gwbqvi gvÎv †e‡o †M‡j
M) Zvcgv Îv †e‡o †M‡j
N) Dc‡ii me¸‡jvB

24| cK‡ii cwbi Zvcgv Îv cwiewZZ n‡q 10º†m. †e‡o †M‡j gv‡Qi Lv`¨ Mn‡Y wK cwieZb nq ?
K) K‡g hvq
L) wØ¸Y †e‡o hvq
M) cwieZb nh bv
N) wØ¸Y K‡g hvq

25| cK‡i GKevi wbweo fv‡e gvQ Pv‡li ci cbivq gvQ Pvl ïi“i Av‡M wK Kiv DwPZ ?
K) cbivq ^K/gv¸i/wks Pvl Kiv DwPZ
L) †Zjwcqv Pvl Kiv DwPZ bq
M) Kv‡jv Kv`v DwV‡q mwâ †¶‡Z †`qv
N) Dc‡ii †KvbUvB bq

GKK Abkxjbx

cvZ¨wnK Rvbvj

GKK KvR

G Abkxjbxi D‡Ïk¨ n‡jv †Kv‡m AwRZ Áv‡bi cwZdjb Kiv hv‡Z cwk¶Yv_xMY †Kv‡mi AwRZ Ávb I `¶Zvi ¸i“Z Abaveb K‡i fwel¨‡Z cwk¶Y cwiPvjbvi †¶‡Î G Ávb I `¶Zv c‡qv‡Mi e¨vcv‡i e¨w³MZ AbfwZ m¤ú‡K BwZevPK fwgKv cvjb Ki‡Z cv‡ib|

1. w`b †k‡l 5-10 wgwbU mgq H w`‡bi wk¶Yxq welqM‡jv wb‡R wb‡R cbiv‡jvPbv Ki“b|
2. †Kvm †k‡l e¨w³MZfv‡e wK wkL‡jb, †Kvb welqwU Avcbvi Kv‡Q ¸i“ZcY wQj, Ges fwel¨‡Z Zv wKfv‡e c‡qvM Ki‡eb Zv msw¶ßfv‡e wjLb|
3. wb‡gi QK Abhvqx msw¶ßfv‡e †Kv‡mi welqw` wj‡L ivL‡Z cv‡ib|

Kvhµg	Kvhµg †_‡K e¨w³MZfv‡e Awg Kx wkLjvg	hv wkLjvg Kxfv‡e Zv Kv‡R c‡qvM Ki‡ev
cvZ¨wnK RvYvj	1. fwel¨‡Z c‡qvRbxq Z_¨ cvIqvi R‡b¨ cvZ¨wnK RvYvj wbqwgZ I e¨w³MZfv‡e msi¶‡Yi ¸i“Z|	mg¯wk¶Yxq welq¸‡jv Awg G c×wZ‡Z msi¶Y Ki‡ev Ges Avgvi cwk¶‡Y G c×wZ Pvj Ki‡ev|
Z_¨ MnY c×wZ	1. wKfv‡e Pwlv †Kvb Z_¨ MnY K‡i Ges †Kvb welq¸‡jv Pwli Z_¨ Mn‡Y cfve †d‡j|	gv‡V Pwl‡`i mv‡_ KvR Kivi mgq Z_¨ MnY c×wZ I Zvi cfveKmgn ¯§iY †i‡LB m¤cmviY KvR Ki‡ev|

GKK Abkxjbx

MvwdwU †evW (**Graffiti Board**)

GKK KvR

G Abkxjbxi D‡Ïk¨ n‡jv †Kv‡mi wewfb Kvhµ‡gi gj¨vqb I cwZfv‡ei m‡hvM mwó Kiv hv‡Z cwk¶K ¯v"Q›`gq cwi‡e‡k mdjfv‡e †Kvm cwiPvjbvi j‡¶¨ cwk¶Yv_x‡`i c‡qvRbxq gZvgZ †c‡Z cv‡ib Ges †m Abhvqx c`‡¶c MnY Ki‡Z cv‡ib|

1. †Kv‡mi mwPeK Kvhµ‡gi Ici †Kvb gZvgZ ev civgk _vK‡j Zv Graffiti Board-G wjwce× Ki"b| cwk¶K cwZw`b MvwdwU †evW †`L‡eb Ges DwjwLZ gZvg‡Zi cwZfve †`‡eb|

As‡Ki †Ljv

wb‡gi AsK¸‡jvi Rb¨ we‡kl wb‡`kbv n‡jv †h, ô+ô wPý Øviv we‡qvM, ôÑô wPý Øviv fvM, ô×ô wPý Øviv †hvM I ô÷ô wPý Øviv ¸Y eSv‡bv n‡q‡Q|

mgq : 20 †m‡KÛ

1. 7+ 4 =

2. 4- 2 =

3. 6×3 =

4. 3÷3=

5. 6 × 2 =

6. 3÷ 2 =

7. 4 + 2 =

8. 6 - 2 =

9. 4×3=

10. 6 ÷ 3 =

11. 1 ÷ 2 =

12. 2 ×3 =

13. 5 + 2 =

14. 4 × 2 =

15. 8 + 4 =

cvZ¨wnK cbiv‡jvPbv

GKK/`jxq Abkxjbx

G Abkxjbxi D‡Ïk¨ n‡jv ce©`‡bi Kvhµg cbiv‡jvPbv Ges c`Ë mvÜ¨Kvjxb KvR Dc¯vc‡bi m‡hvM mwó Kiv hv‡Z AskMnYKvixMY AwRZ AwfÁZvi we©bgq Ki‡Z cv‡ib|

K. cbiv‡jvPbv

- c_g w`b e¨ZxZ cwZw`b ïi“‡ZB jUwii gva¨‡g H w`‡bi cbiv‡jvPbv Awa‡ekb Dc¯vcbvi Rb¨ GKRb cwZwbwa wbe©vPb Ki‡Z n‡e| wbe©vPZ cwk¶Yv_x Av‡Mi w`‡bi Dc¯wcZ me¸‡jv Awa‡ekb †_‡K ¸i“ZcY GKwU wk¶Yxq wel‡qi Ici 5 wgwbU mgq e³e¨ ivL‡eb| e³‡e¨i gj welq n‡e welqwU wK, †Kb ¸i“ZcY Ges wKfv‡e Zv fwel¨‡Z Kv‡R jvMv‡eb|
- GKBfv‡e cwk¶K Avi GKRb cwk¶Yv_x‡K jUwii gva¨‡g wbe©vPb Ki‡eb whwb MZ w`‡bi mg¯ welq¸‡jv mK‡ji AskMn‡Yi gva¨‡g 15 wgwbU mgq a‡i cbiv‡jvPbv Ki‡eb|
- Dc‡iv³ `ÛRb Dc¯vc‡Ki mvweK Dc¯vcbvi Ici 10 wgwbU mg‡q c_‡g mKj cwk¶Yv_x I c‡i cwk¶K BwZevPK I †bwZevPK cwZfve †`‡eb|
- †Kvb AskMnYKvixi MZw`‡bi Av‡jvPbvq †Kvb wel‡q Rvb‡Z ev eS‡Z Amweav n‡j Zv ms‡kvab K‡i wbb|

mvÜ¨Kvjxb Kv‡Ri Dc¯vcb

- ce©`‡b c`Ë mvÜ¨Kvjxb Abkxjbx mwVKfv‡e ‡R‡b wbb|
- Kxfv‡e Dc¯vcb Ki‡eb Zv wbaviY Ki“b|
- †K Dc¯vcb Ki‡eb Zv wbaviY Ki“b|
- wbw`ó mg‡qi g‡a¨ Dc¯vcb, Av‡jvPbv I ck-DËi ce †kl Ki“b|

gW wgUvi

cwZw`‡bi Awa‡ekb †k‡l cwk¶Yv_xM‡Yi g‡bvfve A_vr Zviv cwZ w`‡bi Awa‡ekbmn mvgwMKfv‡e Zv‡`i mšwói welqwU ÔgW wgUv‡iiÕ gva¨‡g Dc¯vcb Ki‡eb| mnvqZv`vbKvix AvU †ccvi wk‡U Qwei gva¨‡g wZb ai‡bi mšwói welq Dc¯vcb Ki‡eb| cwk¶Yv_xMY c‡Z¨‡K cwZw`b Awa‡ekb †k‡l wUK (√) wP‡ýi gva¨‡g Zv ciY Ki‡eb|

w`b			
1g			
2q			
3q			
4_			
5g			

`j MVb

`j MV‡bi cÖvq

†h †Kvb Kv‡Ri D‡Ï‡k¨ `j MVb Kv‡j `‡ji m`m¨‡`i g‡a¨ wbR wbR `wófw½, wfb wfb g‡bvfve I A‡b¨i gZvgZ cwZnZ Kivi B”Qv we`¨gvb _v‡K, d‡j mg‡SvZvcY `j MV‡b RwUjZvi mwó nq|

`j MV‡bi mgq mvaviYZt PviwU cÖvq j¶¨ Kiv hvq t

1. c¯wZKvj (Forming)

c‡Z¨‡K wfb wfb g‡bvfve wb‡q Ae¯vb K‡i

- c‡Z¨‡KB wbR wbR `wófw½ cwZwôZ Kivi c‡Póv Pvjvq
- AskMnY AZ¨vš mxgve× _v‡K
- c‡Z¨‡KB ïa wbR wbR KvR wb‡q wPšZv fvebv K‡i
- `j fwel¨r wm×vš ev¯evq‡bi wfwË wnmv‡e wbqgvejx MV‡bi wPšv K‡i|

2. cwZev`Kvj (Storming)

- ZK-weZK cKU nq I GKZv _v‡Kbv
- cv_wgKfv‡e c¯Z wbqgvejx, †bZZ I AvPiYwea aŸsm nq
- m`m¨iv G‡K A‡b¨i cwZ kµ fvevcb nq, †Kvb Av‡jvP¨ wel‡q wb‡Ri wm×v‡š `pZv c`kb K‡i
- Ø›Ø evo‡Z _v‡K, `j MV‡bi wbqgvejx gvbv nq bv, hw³ c`vb evo‡Z evo‡Z DËß evK¨ wewbgq ïi“ nq
- hw` G Ae¯v‡K mdj fv‡e cwZnZ Kiv hvq, Zv n‡j `j MV‡bi ev¯e m¤§Z D‡Ï‡k¨, wbqg I ixwZbxwZ wbaviY Kiv m¤e nq|

3. ixwZbxwZKvj (Norming)

- Ab¨‡K cwZnZ Kivi B”Qv `gb nq, `j‡K m`p I HK¨e× nIqvi j‡¶¨ ixwZbxwZ cwZôv jvf K‡i
- `jxq m`m¨iv `j‡K AvšwiK fv‡e MnY K‡i I G†K A‡b¨i wPšv ev AvPiY‡K ¯vfweK fv‡e MnY K‡i
- `j‡K ¯vqxi¡c †`Iqvi B”Qv †cvlY K‡i
- `j cvYeš nq|

4. ev¯evqbKvj (Performing)

- `j cYZv jvf K‡i I cZ¨wkZ dj †`q
- ïa Dc‡iv³ wZbwU ¯i cvi nIqvi ci G ¯‡i Avmv m¤e nq|
- G ¯‡i m`m¨iv †h‡nZ G‡K A‡b¨i cwZ Zv‡`i Kv‡Ri m¤cK eS‡Z cv‡i ZvB mnRfv‡e wbR wbR `wqZ cvjb Ki‡Z cv‡i
- `‡j wbR wbR fwgKv I `wqZ bgbxq n‡q Av‡m
- `jxq kw³ Kv‡R i¡cvšwiZ nq
- bZb bZb wPšv-fvebv I mgvavb cKvk cvq|

GKUv fvj `‡ji m`m¨‡`i bqwU fwgKv

mg‡SvZvcY fvj `‡j mvaviYZt wb‡æv³ bqwU Pwi‡Îi mÜvb cvIqv hvq t

1. mgšqKvix (The Co-ordinator)

   wZwb `j‡bZv wnmv‡e KvR K‡ib| AvZ¥-wekvmx, mvejxj fv‡e K_v ej‡Z cv‡ib, fvj †kvZv, wm×vš MnY ZiwšZ Ki‡Z cv‡ib, `jxq m`m¨‡`i Kv‡R Ae`vb ivL‡Z mgfv‡e mvnvh¨ Ki‡Z cv‡ib|

   mvaviY `ejZv t wKQUv wb‡Ri c‡¶ mweav MnYKvix|

2. ew×i SjK c`vbKvix (The Spark)

   wZwb `‡ji GKRb Acwinvh m`m¨, whwb wewfb bZb bZb avivYv †`b, mRbkxj, †Mvovgxg³ I Kíbv kw³ai| mvaviY `ejZv t avivYv c‡qv‡M ew×i NvUwZ, Aev¯e avivYv|

3. evËevqbKvix (The Implementor)

   wZwb `‡ji Kv‡Ri evnb I AvbM‡Z¨i mv‡_ hw³i gva¨‡g avivYv‡K ev¯evq‡b mvnvh¨ K‡ib|

   mvaviY `ejZv t ïagvÎ hLbB wRÁvmv Kiv nq †Kb KvRwU Ki‡e ZLbB ïa Zv e¨vL¨v K‡i| Kíbv Ki‡Z A¶g|

4. `wó wbe×Kvix (The fixer)

   wZwb `‡ji ewngLx `wó c`vbKvix, eÜfvevcb, A‡b¨i mv‡_ †hvMv‡hvM i¶vq `¶, bZb m‡hvM mwóKvix|

   mvaviY `ejZv t wbqg k•Ljv weewRZ, A`i`kx m¤cb|

5. we‡klÁ (The Specialist)

   `‡ji gj¨evb Ávb I `¶Zv c`vb wel‡q gL¨ e¨w³, GKK wPšvKvix, wbR †_‡K Kv‡R GwM‡q †h‡Z cv‡i, wb‡R‡K Kv‡R DrmMKvix Ges †Kvb †Kvb mgq cwiKíbv/ev¯evqb e¨vnZ n‡j ZLb bZb cwiKíbv/‡KŠkj c`vbKvix|

   mvaviY `ejZv t wec‡`i mgq mnvqZv `v‡b A¶g|

6. i¡c`vbKvix (The Shaper)

   wZwb mvaviYZt `‡ji ¯-wbewPZ †bZv, MwZkxj, wb:mskqx, ewngLx, hw³ev`x, cfve mwóKvix, evav KwU‡q DVvi ceYZv|

   mvaviY `ejZv t A‡b¨i AcQ›`bxq, `e‡ji cwZ ejc‡qvMKvix, we‡ivax‡`i †¶wc‡q †Zv‡jb|

7. cwiex¶Y-gj¨vqbKvix (The Monitor - Evaluator)

   wZwb `‡ji cv_i ev wfwË, †KŠkj wbaviYKvix AvZ¥-wbqwšZ, we‡klYKvix, AšgLx `wó c`vbKvix, cPi Z_¨‡K `¶Zvi mv‡_ mwVK fv‡e we‡klY Ki‡Z cv‡ib|

   mvaviY `ejZv t Av‡eM ewRZ axi-w¯i, Kíbv Ki‡Z A¶g|

8. `jxq Kgx (The Team Worker)

   wZwb `‡ji Dc‡`óv I we‡iva wggvsmvKvix, mvgwRK, Dcjwäkvix, cwiw¯wZi mv‡_ Lvc Lvlqv‡Z cv‡ib| mgvavb m¤c‡K m‡PZb, `jxq m¤cwZ i¶vKvix, `‡ji `‡hvMKv‡j AZ¨š c‡qvRbxq e¨w³|

   mvaviY `ejZv t wb®cwËKviK bb|

9. mgwßKvix (The Completer/Finisher)

   `‡ji mgq mPx wbavi‡Y I Kv‡Ri we¯wiZ e¨vL¨vq `‡ji KZZKvix, cavb fjmgn I ev` cov welq wPwýZKvix|

   mvaviY `ejZv t GwM‡q hvIqvi e¨vcv‡i wbwjßZv, ¶` ¶` wel‡q `wðšv|

Awa‡ekb cwiKíbv

wW`b t 1 mgq t 10.00-11.00 †gqv`Kvj t 60 wgwbU

wk‡ivbvg	t	†`kxq cRwZi †QvU gv‡Qi ¸i“Z I Pv‡li m¤vebv
Awfó `j	t	grm¨ Awa`ßi I Ab¨vb¨ ms¯vi KgKZve›`
j¶¨	t	cwk¶Yv_x‡`i‡K †`kxq cRwZi †QvU gv‡Qi ¸i“Z I Pv‡li mweav m¤úwKZ avivYv c`vb Kiv hvq hv‡Z Zviv G Ávb Kv‡R jwM‡q gvQ Pwl‡`i c‡qvRbxq mnvqZv Ki‡Z cv‡ib|
D‡Ïk¨	t	G Awa‡ek‡b cwk¶Yv_xMY †`kxq cRwZi †QvU gv‡Qi A_‰bwZK I cwóMZ ¸i“Z Ges Pv‡li mweav m¤ú‡K Z_¨ wfwËK Ávb AvniY Ki‡eb Ges G m¤ú‡K ej‡Z cvi‡eb I gvQv Pwl‡`i †kLv‡Z cvi‡eb|

welqmwP	Av‡jvP¨ welqmgn	cwk¶Y c×wZ	mgq
fwgKv			4 wgwbU
	• ¯vMZ • ceeZx Awa‡ek‡bi cbiv‡jvPbv • PjwZ Awa‡ek‡bi AeZviYv • Awa‡ek‡bi D‡Ïk¨ e¨vL¨v	e³Zv	
welqe¯			50 wgwbU
	• †QvU gv‡Qi m¤vebv • A_‰bwZK ¸i“Z • cwóMZ ¸i“Z • Pv‡li mweav	e³Zv I c‡kvËi †KŠkj	
mvi ms‡¶c			6 wgwbU
	• D‡Ïk¨ hvPvB • gj wel‡q cbiv‡jvPbv • n¨vÛ AvDU weZiY • cieZx Awa‡ek‡bi mv‡_ ms‡hvM ¯vcb • ab¨ev` Ávcb	e³e¨	
cwk¶Y mnvqK mvgMx t †nvqvU †evW, wdcKvW, gvKvi, n¨vÛ AvDU, BZ¨w`			

†`kxq cRwZi †QvU gv‡Qi ¸i“Z I Pv‡li m¤vebv

AvengvbKvj †_‡K evsjv‡`‡ki gvbl cwYR Awg‡li Pwn`v ciY I RxweKv wbev‡n †`kxq cRwZi gvQi Ici A‡bKvs‡k wbfikxj| G‡`‡k i‡q‡Q AsmL¨ b`x-bvjv, Lvj-wej, cKi-w`Nx, nvli-evlo, wej I cvebfwg hv gv‡Qi cvKwZK Avevm¯j I Pv‡li Rb¨ LeB Dc‡hvMx| Avgv‡`i †`‡k i‡q‡Q 1.03 wgwjqb †n±i AvqZb wewkó cvq 24 nvRvi wK‡jwgUvi `xN b`x I †gvnbv, 114 nvRvi †n±i wej, 68 nvRvi †n±i AvqZ‡bi KvßvB †jK, 5 nvRvi †n±i RjvqZ‡bi evlo ev giv b`x, cvq 2 j¶ †n±i AvqZ‡bi m›`ie‡bi Lwo AÂj Ges 28.3 j¶ †n±i AvqZ‡bi cvebfwg| AZx‡Z GB wekvj Rjvfwg cvKwZK fv‡eB grm¨ m¤ú‡` fici wQj | lvU I mËi `k‡K G†`‡ki †gvU grm¨ Drcv`‡bi kZKiv cvq 70 fvM Avm‡Zv Gme Rjvfwg †_‡K| AvnwiZ gv‡Qi †hgb wQj cvPhZv †ZgbB wQj Zvi cRwZ ˆewPÎ¨| †`‡k wgVv cwbi gv‡Qi cRwZi msL¨v 260 Ges wPswoi cRwZi msL¨v 24| abx-Mixe wbwe‡k‡l mK‡jiB ^`b»`b Lv`¨ ZwjKvi Ab¨Zg Dcv`vb wQj †`kxq †QvU cRwZi ˆewPÎ¨cY Gme gvQ| (Wahab catal, 2003)| †m mgq Awg‡li Drm wn‡m‡e `a, wWg ev gvsm GZ mnRjf¨ wQj bv, MvgxY Rb‡MvôxiAwg‡li cavb Dcv`vbB wQj G †QvU cRwZi †`kxq gvQ|

eZgv‡b †`kxq †QvU cRwZi gv‡Qi cvPhZv I Drcv`b µgvš‡q nvm cv‡”Q| MvgxY Rb‡MvôxicwónxbZvi Rb¨ †`kxq †QvU gv‡Qi Acvc¨Zv A‡bKvs‡kB `vqx| cvkvcwk Mvg-kni wbwe‡k‡l meÎB Gme gvQ µ‡gB `®cvc¨ n‡q DV‡Q| Ab¨w`‡K ‡QvU gv‡Qi Drcv`b K‡g hvIqvq `wi` grm¨Rxex‡`i Av‡qi Drm AvksKvRbKfv‡e K‡g †M‡Q| Gme †QvU gv‡Qi g‡a¨ 50wU cRwZ mPivPi Af¨šixY Rjvk‡q cvIqv hvq; hvi D‡jL‡hvM¨ Ask µ‡gB msKUvc‡bi w`‡K GwM‡q hv‡”Q| A_P G mKj ‡`kxq cRwZi gv‡Qi cwó¸Y I evRvi gj¨ A‡bK †ewk| †`‡ki †gvU Drcw`Z gv‡Qi g‡a¨ (23.29 j¶ †gwUK Ub) cvq 11 kZvsk Av‡m we‡`kx cRwZi gvQ †_‡K| ¯vbxq i“B RvZxq gvQ ‡_‡K Av‡m cvq 22 kZvsk Ges 67 kZvs‡ki †ewk Av‡m †`kxq cRwZi †QvU gvQ †_‡K (DoF 2005)| cwimsL¨vb Abhvqx ‡`Lv hvq Drcw`Z gv‡Qi wmsnfvMB (cvq 90 kZvsk) †`kxq cRwZi wgVvcwbi gvQ| ZvB grm¨ m¤ú` Dbqb, msi¶Y I e¨e¯vcbvq †`kxq cRwZi gvQ mKj we‡ePbvq AMwaKvi‡hvM¨|

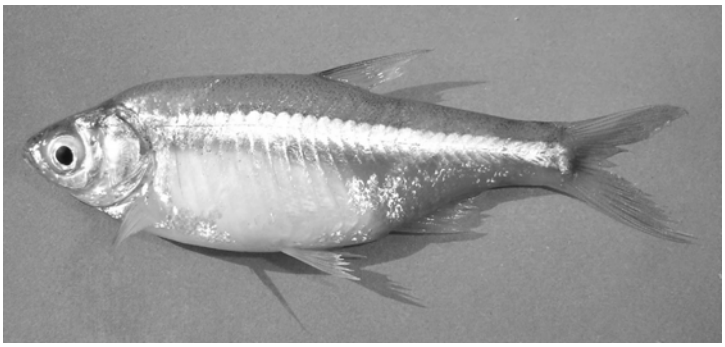
weMZ `ô`kK a‡i evRv‡i †QvU gv‡Qi Zxe Afve †`Lv hv‡”Q| cvKwZK Rjvk‡ql Av‡Mi g‡Zv †`kxq cRwZi †QvU gvQ Avi †`Lv hvq bv| cvKwZK cwi‡e‡ki cwieZb, AwaK AvniY, AcwiKwíZ eva I iv¯v wbgvY, Rjvkq fivU, gv‡Qi ¶Z †ivM, Kwl Rwg‡Z mvi I KxUbvk‡Ki Awbqwš‘Z e¨envi‡ii d‡j G‡`‡ki Rbwcq †QvU gvQ¸‡jv gvivZ‡K ûgwKi g‡L| (Felts *et.al.* 1997) weMZ `k‡K fvev n‡Zv †QvU gvQ eo gv‡Qi g‡Zv evoš bq I Zv‡`i cwZ‡hvMx; †QvU gv‡Qi evRvi `il wQj Kg| Gme Kvi‡Y gvQ Pwliv i“BRvZxq gv‡Qi mv‡_ †`kxq †QvU gvQ cK‡i Pvl Ki‡Z n‡e GK_v wPšvB KiZ bv| eis cK‡i wel c‡qvM K‡i G‡`i mg‡j webvk K‡i †dj‡Zv| `wi` gvQ Pwliv Zv‡`i cK‡i i“BRvZxq gv‡Qi Pvl wVKB Ki‡Q, wKš Zviv cwiev‡ii cwói c‡qvRb‡K D‡c¶v K‡i gvQ wewµ K‡i A_ DcvRb‡KB †ewk ¸i“Z w`‡q Avm‡Q| Zv‡Z K‡i gvQ Pvl m‡Ël Zv‡`i cwiev‡ii m`m¨‡`i cwónxbZv †_‡KB hv‡”Q| G ev¯eZvi wbwi‡L `wi` gvb‡li bM` A_ I cwó Pwn`v ci‡Y i“BRvZxq gv‡Qi ms‡M †QvU gv‡Qi wgkPv‡li wewfb chw³ D™veb Kiv n‡q‡Q| Gfv‡e Pv‡li gva¨‡g wKQ gvQ‡KI hw` msi¶Y Kiv m¤e nq Zvn‡j Zv gv‡Qi Rxe‰ewPÎ¨ i¶vqI mnvqK n‡e|

†`kxq †QvU gv‡Qi cwóMZ ¸i“Z

evsjv‡`‡ki AwaKvsk Mixe gvbl †Kvb bv †Kvb cwónxbZvq fM‡Q| cwZ eQi 30 nvRv‡ii AwaK wkï wfUwgb-G Gi Afv‡e ivZKvbv †iv‡M Avµvš nq| Mv‡gi gvb‡li 57% c‡qvRbxq wfUwgb-G Gi Afv‡e, 89% Avqi‡bi Afv‡e, 80% K¨vjwmqv‡gi Afv‡e Ges 53% i³ kb¨Zvq fM‡Q| †`kxq †QvU gvQ we‡kl K‡i gjv, cwU, †Xjv, BZ¨w` cwó¸‡Y mg× weavq ivZKvbv, i³kb¨Zvmn AcwóRwbZ †ivM cwZ‡iv‡a ¸i“ZcY fwgKv cvjb K‡i| †QvU gv‡Qi KvUv I gv_vi As‡k Ges gvsm‡ck‡Z c‡qvRbxq K¨vjwmqvg, dmdivm I wRsK _v‡K hv wkï‡`i nvo MV‡b LeB c‡qvRbxq| we‡kl K‡i gjv gv‡Qi K¨vjwmqvg `‡ai mv‡_ Zjbxq| Mixe gvbl mn‡R kvK-keRxi mv‡_ †QvU gvQ ivbv K‡i cwiev‡ii mK‡j wg‡j †L‡q cwói Pwn`v †gUv‡Z cv‡i|

mviv we‡k mnRcvP¨ DbZgv‡bi cwYR Awgl wnmv‡e gv‡Qi Ae¯vb mev‡M| †QvU gv‡Q cPi cwigvY Awgl Ges gvbe †`‡ni Rb¨ AZ¨vek¨Kxq 10wU Amino acid Av‡Q| gv‡Qi Awgl i‡³ K‡j‡÷v‡i‡ji gvÎv Kgvq| gv‡Qi †`‡ni I‡gMv-3 Fatty acid i‡³i AbPwµKv‡K RgvU eva‡Z evav †`q Ges dmd‡mi c`vn Kgv‡Z mnvqZv K‡i| gv‡Qi †Zj wKWbx‡Z cv_i nIqvi SwK Kgvq| gv‡Q Kg-‡ewk 72% cwb, 19% Awgl, 8% Pwe, 0.15% K¨vjwmqvg, 0.25% dmdivm Ges 0.10% Vitamin-A, B, C, D Av‡Q| A‡bK‡¶‡Î eo gv‡Qi Zjbvq †QvU gv‡Qi cwógvb †ewk n‡q _v‡K| †QvU gv‡Q cPi

cwigv‡Y K¨vjwmqvg, dmdivm, †jŝn I Av‡qvwW‡bi gZ LwbR c`v_ _v‡K hv kix‡ii †ivM cwZ‡iva e¨e¯vq bZb gvÎv †hvM K‡i| K¨vjwmqvg `vZ I nvo MV‡b mnvqK| dmdivm bZb †Kvl mwó‡Z mnvqZv K‡i _v‡K| jvBwmb I mvjdvi mg× AZ¨vek¨Kxq Amino acid †QvU gv‡Q †ewk cwigv‡Y _v‡K| AÜZ, MjMÛ I i³ kb¨Zv `ixKi‡Y †QvU gv‡Qi ¸i“Z Acwimxg| †QvU gv‡Q cPi cwigv‡Y Amino acid _v‡K, hv wkï, gwnjv I e× gvb‡li †Pv‡Li `wó kw³ ew×mn ivZKvbv †ivM cwZ‡iv‡a mnvqZv K‡i| G Qvov MfeZx gwnjv I `»`vbKvix gv‡q‡`i i³ kb¨Zv †_‡K i¶vq †QvU gvQ we‡kl ¸i“ZcY Ae`vb iv‡L| MfeZx gwnjv‡`i †QvU gvQ LvIqv‡j ev”Pvi gw¯®‹, ZK, †Pv‡Li MVb Ges nvo I `v‡Zi MVb mwVK I ¯vfweK nq|



Avgv‡`i †`‡k mvaviYZt †hfv‡e gvQ KvUv I ‡avqv nq Zv‡Z gv‡Q we`¨gvb A‡bK cwó a‡q P‡j hvq| gjv gv‡Qi †`‡ni wewfb Ask cix¶v K‡i †`Lv †M‡Q †h, gjv gv‡Q we`¨gvb ‡gvU Vitamin-A Gi cwigvY †Pv‡Li As‡k me‡P‡q †ewk (53%), †c‡Ui As‡k 39%, kix‡ii mvg‡bi As‡k 7% Ges †j‡Ri As‡k 1% _v‡K| gvQ KvUvi mgq gv_v †K‡U †d‡j w`‡j gv‡Q we`¨gvb wfUwg‡bi †ewki fvMB †d‡j †`qv nq| †mRb¨ gvQ KvUvi mgq ev †avqvi mgq Gme wel‡q we‡kl mZKZv Aej¤b Ki‡Z n‡e|

mviwY-1. KwZcq †QvU I eo gv‡Qi cwó¸‡Yi ZjbvgjK wPÎ (cwZ 100 Mvg f¶Y‡hvM¨ Ask)|

gv‡Qi cRwZ		Awgl (Mvg)	Pwe (Mvg)	kKiv (Mvg)	†jŝn (Mvg)	K¨vjwmqvg (Mvg)	dmdivm (Mvg)	wfUwgb (gvB‡µvMvg)
†QvU gvQ	cwU	18.9	2.4	3.1	0.96	1.06	0.95	37.00
	gjv	15.8	4.1	15.0	0.007	1.071	-	1960
	gv¸i	15.0	1.0	4.2	0.70	0.172	0.30	-
	‰K	14.8	8.8	4.4	1.35	0.41	0.39	32
	wks	22.8	0.6	6.9	0.26	0.67	0.65	-
	cve`v	19.2	2.1	4.6	1.3	0.31	0.21	-
	‡Usiv	19.2	6.5	1.1	0.30	0.27	0.17	
	dwj	19.8	1.0	-	0.16	0.59	0.45	-
	micwU	15.5	9.5	-	0.54	0.22	0.12	-
	Lwjmv	16.1	3.9	3.1	0.9	0.46	0.36	
	‡Xjv	16.3	-	-	-	1.26	-	937
eo gvQ	i“B	16.6	1.4	4.4	0.0009	0.68	0.15	-
	KvZj	19.5	2.4	3.0	0.0009	0.53	0.21	-
	g‡Mj	19.5	0.8	3.3	0.9	0.35	0.28	-
	Kwjevdm	14.7	1.0	-	0.33	0.32	0.38	-
	‡evqvj	15.4	2.7	-	0.62	0.16	0.49	-
	wPZj	18.6	2.32	-	2.98	0.18	0.25	-
	cvsMvm	14.2	10.8	-	0.0005	0.18	0.13	-
	wmjfviKvc	16.3	-	-	0.003	0.268	-	17

†QvU gvQ Pv‡li mweavejx

- AwaKvsk †QvU gvQB cvKwZKfv‡e eQ‡i GKwaKevi cRbb K‡i _v‡K| ZvB KwÎg cRbb c×wZi we‡kl c‡qvRb c‡o bv|
- †QvU gvQ Kg mg‡qB eqtcvß nq, d‡j eskew×‡Z mweav nq|
- †QvU gvQ Le Aí mg‡qB Lvlqv ev evRviRvZKi‡Yi Dc‡hvMx nq|
- †QvU gvQ cvq me ai‡Yi Rjvk‡q Pvl Kiv hvq, i“B RvZxq gv‡Qi mv‡_ wgkPvll Kiv hvq|
- A‡bK †QvU gvQ we‡kl K‡i wRIj gvQ Kg Aw·‡Rb I †ewk ZvcgvÎvq †e‡P _vK‡Z cv‡i|
- PvlKvjxb mg‡q †QvU gvQ AbeiZ AvniY I gR` Kiv hvq|
- †QvU gvQ evRv‡i †h‡Kvb AvKv‡iB we‡q‡hvM¨ n‡q _v‡K|
- Ab¨vb¨ gv‡Qi Zjbvq †QvU gv‡Qi eZgvb Pwn`v I evRvi gj¨ A‡bK †ewk|
- G mKj gv‡Q Kg †ivM nq I Giv we¯Z cwi‡ek mnbkxj|
- †`kxq I AvšRwZK evRv‡i G mKj gv‡Qi e¨vcK Pwn`v i‡q‡Q|
- †Kvb †Kvb †QvU gv‡Qi (^K, wks I gv¸i) ewYwR¨Kfv‡e e¨vcK Pvl m¤vebv i‡q‡Q|
- †QvU gvQ IR‡bi Abcv‡Z msL¨vq †ewk nq e‡j cwiev‡ii m`m¨‡`i gv‡S e›U‡b mweav nq|
- †QvU gvQ Pvl K‡i `wi` we‡gvPb I Kgms¯v‡bi m‡hvM mwó Kiv hvq|

Dcmsnvi t

†QvU gvQ gR‡`i `B-wZb gvm ci †_‡K wbqwgZ weiwZ‡Z gvQ a‡i cwiev‡ii c‡qvRbxq gv‡Qi Pwn`v ciY Ges AwZwi³ gvQ evRv‡i wewµ Kiv hvq| A‡bK mgq eo gv‡Qi Zjbvq evRv‡i †QvU gv‡Qi `vg †ewk cvlqv hvq| d‡j Pwl A_‰bwZKfv‡e AwaK jvfevb nq| ‡`kxq †QvU gvQ¸‡jvi g‡a¨ gjv, †Xjv, cve`v, cwU, Pwcjv, ^K, wks, gv¸i, Lwjkv, †Usiv, Mjkv, †gwb, BZ¨w` LeB m¯v` I AZ¨š Rbwcq| Ace ¯v`, cwó¸Y I D”P evRvigj¨ we‡ePbvq Gme gvQ‡K evPv‡Z n‡e Ges G‡`i Pvl m¤cmvi‡Yi c‡qvRbxq D‡`¨vM MnY Ki‡Z n‡e| †`kxq cRwZi gvQ i¶vi Rb¨ †Kej msi¶YgjK e¨e¯v wb‡jB h‡_ó n‡e bv| wKfv‡e Ab¨ cRwZi mv‡_ ewYwR¨K fv‡e Pv‡li (Commercial Culture) Aax‡b †bqv hvq †m wel‡q c`‡¶c MnY Ki‡Z n‡e| Zvn‡jB cKZc‡¶ G me gvQ wUwK‡q ivLv m¤e n‡e| m‡evcwi †`kxq Kwó I mvs¯wZi mv‡_ m¤c³ HwZn¨mgn‡K wUwK‡q ivLvmn G‡`‡ki Rxe‰ewPÎ¨ Dbq‡bi Rb¨ †`kxq †QvU gv‡Qi Pvl e¨e¯vcbv I msi¶Y AZ¨š c‡qvRb|

wdc PvU cwiKíbv

†`kxq cRwZi †QvU gv‡Qi ¸i“Z I Pv‡li m¤vebv	A_‰bwZK ¸i“Z t • Aí mg‡q AwaK gbvdv m¤e | • †`k-we‡`‡k evRvi Pwn`v i‡q‡Q| • ewYwR¨Kfv‡e Pvl m¤vebv e¨vcK| • Avav-wbweo I wbweo c×wZ‡Z Pv‡l AwaK Drcv`b I e¨vcK Kgms¯—vb Gi m‡hvM i‡q‡Q| • `wi` we‡gvP‡b D‡jL‡hvM¨ Ae`vb ivL‡Q	
cwóMZ ¸i“Z-1 • †QvU gv‡Q cPi cwigvY K¨vjwmqvg, dmdivm, †jšn I Av‡qvwWb _v‡K| • †QvU gv‡Q cPi Vitamin A, B, C, D _v‡K| • †QvU gv‡Q jvBwmb I mvjdvi mg× AZ¨vek¨Kxq Amino acid _v‡K| • †QvU gvQ AÜZ, MjMÊ I i³ kb¨Zv cwZ‡iv‡a mnvqK| • gv‡Qi †`‡ni K¨vjwmqvg `vZ I nvo MV‡b fwgKv iv‡L| • dmdivm bZb †Kvl mwó‡Z mnvqZv K‡i| • gv‡Qi I‡gMv-3 Fattyt acid i³bvjx‡Z AbPwµKv‡K RgvU eva‡Z evav †`q| • gv‡Qi †Zj wKWb‡Z cv_i nIqvi SwK Kgvq|	cwóMZ ¸i“Z-2 eo I †QvU gv‡Qi cwógv‡bi Zjbvt-

gv‡Qi cRwZ		Awgl (Mvg)	Pwe (Mvg)	kKiv (Mvg)
‡QvU gvQ	cwU	18.9	2.4	3.1
	gjv	15.8	4.1	15.0
	gv¸i	15.0	1.0	4.2
	‰K	14.8	8.8	4.4
	wks	22.8	0.6	6.9
	cve`v	19.2	2.1	4.6
	‡Usiv	19.2	6.5	1.1
	dwj	19.8	1.0	
	micwU	15.5	9.5	
	Lwjmv	16.1	3.9	3.1
	‡Xjv	16.3		
eo gvQ	i“B	16.6	1.4	4.4
	KvZj	19.5	2.4	3.0
	g‡Mj	19.5	0.8	3.3

†`kxq †QvU gvQ Pv‡li mweav-1 • A‡bK †QvU gvQB cvKwZKfv‡e e× I Db¥³ Rjvk‡q GKwaKevi cRbb K‡i _v‡K| • Kg eq‡m eqtcvß nq| • me Rjvk‡q Z_vt cKi, †Wvev, †PŠev”Pv ev LvPv‡Z Pvl Kiv hvq| • evsjv‡`‡ki gwU, Avenvlqv I Rjevq G‡`i Pvl Dc‡hvMx| • GKK I wgk Pv‡l Dc‡hvMx| • Pv‡lKvjxb AbeiZ AvniY Kiv hvq|	†`kxq †QvU gvQ Pv‡li mweav-2 • cwógvb †ewk, †L‡Z m¯—v`| • AwaK Nb‡Z Pvl m¤e| • cwZKj cwi‡e‡kl evP‡Z cv‡i| • G‡`i Kg †ivM nq I we¯—Z cwi‡ek mnbkxj| • ¯—í mgq Pvl K‡i evRviRvZ Kiv hvq| • †QvU gvQ lR‡bi Zjbvq msL¨vq †ewk nq weavq Lvevi mg‡q cwiev‡ii mevi gv‡S e›Ub Kiv hvq

Awa‡ekb cwiKíbv

w`b t 01 mgqt 11.15-12.15 †gqv`Kvjt 60 wgwbU

wk‡ivbvg	t	†`kxq cRwZi †QvU gv‡Qi mvaviY cwiwPwZ
Afxó `j	t	grm¨ Awa`ß‡ii KgKZve›`
j¶¨	t	G Awa‡ek‡b AskMnYKvixMY ‡`kxq cRwZi †QvU gv‡Qi mvaviY cwiwPwZ wel‡q Ávb I `¶Zv e¨× Ki‡Z cvi‡eb hv‡Z Zviv AwRZ Áv‡bi Av‡jv‡K †`kxq cRwZi †QvU gv‡Qi Pvl e¨e¯vcbvq I msi¶‡Y c‡qvRbx c`‡¶c MnY Ki‡Z cv‡ib|
D‡Ïk¨	t	Awa‡ekb †k‡l cwk ÿ bv_xiv †`kxq cRwZi †QvU gv‡Qi - • ¯vbxq bvg Rvb‡Z cvi‡eb| • ‰eÁwbK bvg Rvb‡Z, ej‡Z I wjwce× Ki‡Z cvi‡eb| • Qwe †`‡L gvQ mbv³ Ki‡Z cvi‡eb|

welqmwP	Av‡jvP¨ welq	cwk¶Y †KŠkj	mgq
fwgKv			3 wgwbU
	• AskMnYKvix‡`i ¯vMZ Rvbv‡bv • Kkjv` wewbgq • Dc‡hvMx DÏxcK Kvhµg • PjwZ Awa‡ek‡bi Dci Av‡jvKcvZ • DØ×KiY	e³Zv	
welqe¯			52 wgwbU
	†`kxq cRwZi †QvU gv‡Qi mv‡_ mvaviY cwiwPwZ|	e³Zv I c‡kvËi	
mvi-ms‡¶c			5 wgwbU
	• gj welqmg‡ni cbiv‡jvPbv| • D‡Ïk¨ hvPvB • n¨vÛAvDU weZiY • cieZx Awa‡ek‡bi Dci Av‡jvKcvZ • ab¨ev` Ávcb|	c‡kvËi I e³Zv	
cwk¶Y mnvqK mvgMx t ‡ewW, gvKvi, n¨vÛAvDU, wdcPvU, BZ¨vw`			

†`kxq cRwZi †QvU gv‡Qi mvaviY cwiwPwZ I Rxeb`¨v

†QvU gv‡Qi mvaviY cwiwPwZ

AvKviMZ w`K †_‡K gvQ mvaviYZ `ÛcKvi- eo gvQ I †QvU gvQ| lvU I mËi `k‡K cvKwZK Rjvk‡q †QvU-eo Dfq gv‡QiB cvPhZv wQj Ges †gvU Drcw`Z gv‡Qi kZKiv 70 fv‡Mi †ekx Awm‡Zv cvKwZK Rjvkq n‡Z| wKš `"Z RbmsL¨v e×, cvKwZK I gbl¨mó wewfb Kvi‡Y cvKwZK Rjvk‡q gv‡Qi Drcv`b kZKiv 40 fv‡M †b‡g G‡m‡Q| i"B RvZxq gv‡Qi Pvlvev` e×i d‡j †gvU Drcv`b c‡ei Zjbvq e× †c‡j I G †`‡ki `wi` Rb‡MvôxI cwói Pwn`v ci‡Yi Rb¨ i"B RvZxq gv‡Qi cvkvcwk AwaK cwómg× †QvU gv‡Qi Pvl m¤cmviY I cvKwZK Rjvk‡q msi¶Y Kiv Avek¨K| G Rb¨ †QvU gv‡Qi ms‡M cwiwPZ nIqv GKvš c‡qvRb|

†QvU gv†Qi msÁv wb‡q wKQUv weZK i‡q‡Q| Z‡e beŸB `k‡K †QvU gvQ wb‡q KwZcq M‡elYvq 25 †mwg. chš AvKv‡ii gvQ ¸‡jv‡K †QvU gvQ wnmv‡e AwfwnZ Kiv nq| GLb chš GUvB †QvU gv‡Qi Mnb †hvM¨ cwiwPwZ| Bs‡iwR‡Z †QvU gvQ Small Indigenous Species (SIS) bv‡g cwiwPZ| evsjv‡`kmn `w¶Yce GwkqvI A‡bK M‡elK †QvU ‡kYxi gvQ‡K Self Recruiting Species (SRS) bv‡gI AwfwnZ K‡i _v‡Kb| G‡`‡k cvc¨ ¯v` cwbi 260 cRwZi gv‡Qi g‡a¨ AwaKvskB †QvU gvQ †kYxf³ e‡j avivYv Kiv nq| hw`I mwVK msL¨v GLbI wbaviY Kiv nqwb| W. BDmd Avjx (Felts *et al.* 1997) Zvi GK ce‡Ü †gvnbv †_‡K b`x‡Z AwfcqvYKvix gvQmn †QvU gv‡Qi 143 cRwZ D‡jL K‡i‡Qb| Z‡e cvq 50 cRwZi †QvU gvQ mPivPi Avf¨šixb Rjvk‡q cvIqv hvq| †QvU gvQmg‡ni GKwU ZwjKv ‡Uwej- 2 ‡`qv n‡jv|

†Uwej-2 †QvU gv‡Qi ZwjKv

µwgK	evsjv/¯vbxq bvg	‰eÁwbK bvg	Qwe
1.	dj ‡Pjv	*Salmostoma phulo*	
2.	Q¨vc ‡Pjv	*Chela cachius*	
3.	Kvk Lqiv	*Chela laubuca*	
4.	†Nvov †Pjv	*Securicola gora*	
5.	†Pjv	*Salmostoma argentea*	
6.	bwi‡Kj †Pjv	*Salmostoma bacaila*	
7.	`vowKbv	*Esomus danricus*	
8.	`vowKbv	*Rasbora rasbora*	
9.	`vowKbv	*Rasbora daniconius*	
10.	Gjs	*Rasbora elanga*	
11.	†fvj	*Barilius bola*	
12.	†LvKkv	*Barilius shacra*	

µwgK	evsjv/¯vbxq bvg	‰eÁwbK bvg	Qwe
13.	ewnb †LvKkv	*Barilius barna*	
14.	cv_i PvUv	*Barilius tileo*	
15.	eowj	*Barilius barila*	
16.	Rqv, †KvKkv	*Barilius bendilisis* var. *chedra*	
17.	Rqv	*Aspidopataria jaya*	
18.	gowi	*Aspidopataria morar*	
19.	†KvKkv	*Barilius bendilisis* var. *cosca*	
20.	†LvKkv	*Barilius vagra*	
21.	evkcvZv	*Danio devario*	
22.	AbR	*Danio rerio*	
23.	wQewj	*Danio aequipinnatus*	
24.	wbcwZ	*Danio dangila*	
25.	gjv	*Ambylpharyngodon microlepis*	
26.	gjv	*Ambylpharyngodon mola*	
27.	†Xjv	*Osteobrama cotio cotio*	
28.	Ri“qv	*Chagunius chagunio*	
29.	Ri“qv	*Osteochilus hasseltii*	
30.	Ri“qv, Nwiqv	*Labeo boggut*	
31.	GbMU	*Labeo angra*	
32.	†NvovgBLv	*Labeo pangusia*	
33.	Likv	*Labeo dero*	
34.	ebi“B	*Labeo* sp.	
35.	micwU	*Puntius sarana*	

µwgK	evsjv/¯vbxq bvg	‰eÁwbK bvg	Qwe
36.	†Pvjv cwU	*Puntius chola*	
37.	gjv cwU	*Puntius gaganio*	
38.	dUwb cwU	*Puntius phutunio*	
39.	wSwj cwU	*Puntius gelius*	
40.	†Uwi cwU	*Puntius terio*	
41.	KvÂb cwU	*Puntius cosuatis*	
42.	wZZ cwU	*Puntius ticto*	
43.	RvZ cwU	*Puntius sophore*	
44.	Kkww U	*Puntius carnatieus*	
45.	Kvjv evUv	*Crossocheilus latius*	
46.	Ni †cvqv	*Garra gotyla*	
47.	†cvqv	*Garra annandalei*	
48.	ewj PvUv	*Nemachilus zonalternans*	
49.	ewj PvUv	*Acanthocobitis botia*	
50.	KwiKv	*Schistura corica*	
51.	Xwi	*Schistura beavani*	
52.	Xwi	*Schistura beavani*	
53.	Xwi, Mvs ¸Zg	*Nemacheilus sikmaiensis*	
54.	LiKv	*Nemachilus* spp.	
55.	†kvIb LiKv	*Nemacheilus savona*	
56.	cvbMv	*Pangio pangia*	
57.	gv¸i	*Clarias batrachus*	
58.	†evqwj cve`v	*Ompok bimaculatus*	

µwgK	evsjv/¯vbxq bvg	‰eÁwbK bvg	Qwe
59.	ga cve`v	*Ompok pabda*	
60.	†QvU cve`v	*Ompok pabo*	
61.	wks	*Heteropneustes fossilis*	
62.	wks	*Olyra longicaudate*	
63.	P¨vMv	*Checa checa*	
64.	KvRwj	*Ailia coila*	
65.	KvRwj	*Ailiichthys Punctata*	
66.	evZwk	*Pseudeutropius atherinoides*	
67.	evPv	*Eutropichthys vacha*	
68.	Nvlov	*Chandramara chandramara*	
69.	Nvlov	*Amblyceps* spp.	
70.	Nvlov, †QvU wks	*Amblyceps mangois*	
71.	Nvlov	*Clupisoma garua*	
72.	gwo evPv	*Clupisoma murius*	
73.	†Usiv	*Batasio batasio*	
74.	†Usiv	*Batasio tengana*	
75.	¸jkv	*Mystus cavasius*	
76.	¸jkv	*Mystus bleekeri*	
77.	eRwi †Usiv	*Mystus tengra*	
78.	†Usiv	*Mystus vittatus*	
79.	bbv ‡Usiv	*Mystus gulio*	
80.	bbv ‡Usiv	*Glyptolhorax indicus*	

µwgK	evsjv/¯vbxq bvg	‰eÁwbK bvg	Qwe
81.	†Usiv	*Mystus armatus*	
82.	Mvs †Usiv	*Gagata nangra*	
83.	Mvs †Usiv	*Gagata gagata*	
84.	Mvs †Usiv	*Gogangra viridescens*	
85.	Mvs †Usiv	*Gagata youssoufi*	
86.	Kv I qv RswM	*Gagata cenia*	
87.	KUv Kwš	*Erethistes pussilus*	
88.	KUv Kwš	*Hara jerdoni*	
89.	KUv Kwš	*Hara hara*	
90.	†KwP	*Corica soborna*	
91.	KwPqv	*Monopterus cuchia*	
92.	Aa †VvUv	*Hyporhamphus limbatus*	
93.	wmmi	*Sisor rhabdophorus*	
94.	wmmi, nviv gvQ	*Conta conta*	
95.	†UwjwPUv, Kwb †Usiv	*Psudolaguvia shawi*	
96.	†UwjwPUv	*Glyptothorax telchitta*	
97.	†UwjwPUv	*Glytothorax* spp.	
98.	UwK, jvUv	*Channa punctatus*	
99.	P¨vs	*Channa orientalis*	
100.	KwKjv	*Xenentodon cancila*	
101.	KwKjv	*Hyporhamphus gimardi*	
102.	GK †VvUv	*Zenarchopterous ectuntio*	
103.	GK †VvUv	*Dermogenys pusillus*	

µwgK	evsjv/¯vbxq bvg	‰eÁwbK bvg	Qwe
104.	wUUww i	*Psilorhynchus sucatio*	
105.	evb‡cvbv	*Aplocheilus panchax*	
106.	evb‡cvbv	*Oryzias melastigma*	
107.	eww j †Uv iv	*Psilorhynchus balitora*	
108.	eww j †Uv iv	*Psilorhynchus gracilis*	
109.	Kwg‡i i wLj	*Microphis deocata*	
110.	Kwg‡i i wLj	*Microplis chokderi*	
111.	Kwg‡i i wLj	*Microplis cuncalus*	
112.	evUv	*Labeo bata*	
113.	fv½b evUv	*Labeo boga*	
114.	fvsbv, UvUwKwb	*Cirrhinus reba*	
115.	cvnwwo ¸Zg	*Somileptes gongota*	
116.	iv Yv/ †eŠgvQ	*Botio dario*	
117.	iv Yv/cZj	*Botio Lohachata*	
118.	¸Zg	*Lepidocephalichthys guntea*	
119.	¸Zg	*Lepidocephalichthys annandalei*	
120.	cBqv	*Lepidocephalichthys irrorata*	
121.	cBqv	*Lepidocephalus berdmorei*	
122.	cBqv	*Neoecirrhicthys maydelli*	
123.	Pwcjv	*Gudusia chapra*	
124.	MwY Pwcjv	*Gonialosa manminna*	
125.	Zviv evBg	*Macrognathus aculeatus*	
126.	¸wP evBg	*Macrognathus pancalus*	
127.	Liïjv	*Rhinomugil corsula*	

µwgK	evsjv‡`bxq bvg	‰eÁwbK bvg	Qwe
128.	†KwP	*Mugil cascasia*	
129.	Pbv Lwjkv	*Colisa sota*	
130.	Lwjkv	*Colisa fasciata*	
131.	jvj Lwjkv	*Trichogaster chuna*	
132.	eBPv Lwjkv	*Colisa labiosa*	
133.	†bdZwb	*Ctenops nobilis*	
134.	†bdZwb, ‰K ewb`	*Psudorphromenus cupanus*	
135.	‰K	*Anabas testudineus*	
136.	†e‡j	*Glososogobius giuris*	
137.	bbv †e‡j	*Brachygobius nunus*	
138.	bwdZ	*Badis badis*	
139.	†gwb/†f`v	*Nandus nandus*	
140.	bvgv Pv›`v	*Chanda nama*	
141.	iv½v Pv›`v	*Pseudambassis ranga*	
142.	KvUv Pv›`v	*Psudambassis baculis*	
143.	wZb †PvLv	*Aplocheilus panchax*	

Drmt Felts *et al.* 1997, Hoq 2004, Rahman 2004 Ges Siddiqui *et al*. 2007.

wdcPvU cwiKíbv

†`kxq cRwZi †QvU gv‡Qi mvaviY cwiwPwZ	
†QvU gv‡Qi msÁv • 25 †mwg. AvKvi chš gvQ¸‡jv‡K †QvU gvQ e‡j • Bs‡iRx‡Z †QvU gvQ SIS (Small indeginous species) bv‡g cwiwPZ| • A‡bK M‡elK †QvU †kYxi gvQ‡K SRS (Self recruiting species) bv‡g AwfwnZ K‡ib|	†QvU gv‡Qi Zwjv A_‰bwZK I cwógv‡bi w`K †_‡K ¸i“ZcY Ges mnRjf¨ cRwZi (‡hgb- gjv, †Xjv, ¸jkv, RvZ cwU, ˆK, wks, gv¸i, cve`v, evUv, Pwcjv) cwk¶K wdc PvU ˆZix K‡i c`kb Ki‡eb|

Awa‡ekb cwiKíbv

w`bt 01 mgqt 12.15-13.15 ‡gqv`Kvjt 60 wgwbU

wk‡ivbvg	t	Pvl‡hvM¨ †`kxq cRwZi †QvU gv‡Qi Rxeve`¨v
Afxó `j	t	grm¨ Awa`ß‡ii KgKZve›`
j¶¨	t	G Awa‡ek‡b AskMnYKvixMY‡K †`kxq cRwZi Pvl‡hvM¨ gvQ mg‡ni evwn¨K ˆewkó¨, evm¯vb,Lv`¨ I Lv`¨vf¨vm, cRbb Kvj, wWg avivY ¶gZv I Pvl c×wZ m¤ú‡K avivYv c`vb Kiv|
D‡Ïk¨	t	Awa‡ekb †k‡l cwk ÿ Yv_xiv †`kxq cRwZi †QvU gv‡Qi -  • evwn¨K ˆewkó¨ m¤ú‡K Rvb‡Z cvi‡eb|  • evm¯vb, Lv`¨ I Lv`¨vf¨vm m¤ú‡K Ávb mg× Ki‡Z cvi‡eb	 • cRbb Kvj I wWg avivY ¶gZv m¤ú‡K ¯úó avivYv cv‡eb| • Pvl c×wZ m¤ú‡K Ávb jvf Ki‡eb

Awa‡ek‡bi Av‡jvP¨ welq		cwk¶Y †KŠkj	mgq
fwgKv			3 wgwbU
	1. AskMnYKvix‡`i ¯vMZ Rvbv‡bv 2. ceeZx Awa‡ek‡bi cbiv‡jvPbv 3. PjwZ Awa‡ek‡bi Dci Av‡jvKcvZ 4. DØ×KiY	e³Zv	
welqe¯			52 wgwbU
	Pvl‡hvM¨ †`kxq cRwZi †QvU gv‡Qi Rxeve`¨v|	e³Zv I c‡kvËi	
mvi-ms‡¶c			5 wgwbU
	• gj welhmg‡ni cbiv‡jvPbv| • D‡Ïk¨ hvPvB • n¨vÛAvDU weZiY • cieZx Awa‡ek‡bi Dci Av‡jvKcvZ • ab¨ev` Ávcb|	c‡kvËi I e³Zv	
cwk¶Y mnvqK mvgMx t ‡ewW, gvKvi, n¨vÛAvDU, wdcPvU, BZ¨vw`			

PvI†hvM¨ †`kxq cRwZi ‡QvU gv‡Qi Rxewe`¨v

†QvU gvQ cwógv‡bi w`K †_‡K ¸i“ZcY n‡j I me gvQB PvI‡hvM¨ bq| PvI‡hvM¨ n‡e wKbv e¨vcv‡i Av‡iv M‡elYv c‡hvRb| PvI‡hvM¨ KwZcq †`kxq cRwZi †QvU gv‡Qi Rxewe`¨v wb‡g Av‡jvPbv Kiv n‡jv|

gjv gv‡Qi Rxewe`¨v **(Biology of Mola fish)**

gjv gv‡Qi †kYxweb¨vm **(Classification)**

Phylum - Chordata

Class- Actinopterygii (=Osteichthyes)

Order- Cypriniformes

Family- Cyprinidae

Genus- ***Amblypharyngodon***

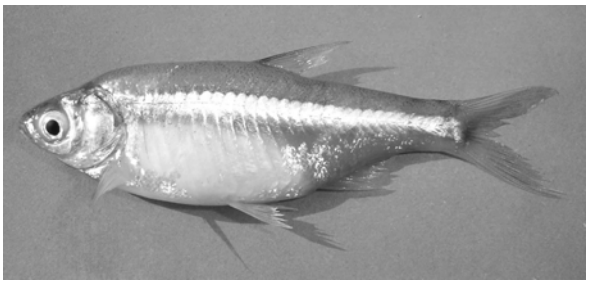
Species- ***A. mola***

¯vbxq bvg t gjv

Bs‡iRx bvg t Mola carplet

ewn¨K ˆewkó¨

gjv gv‡Qi †`n wKQUv Pvcv| gL MnŸ‡i Dc‡ii †VvU †bB| cô I cvq cvLbv‡Z Mvp `vM †`Lv hvq| wki`vov eivei D¾j i¡cvjx e‡Yi `vM Kvb‡Kvi wcQb n‡Z †jR chš we¯Z| †jR ¯úóZ `Ûfv‡M wef³| gjv mvaviYZ 9 †mwg. chš j¤v n‡q _v‡K| gjv‡Z cPi cwigv‡Y wfUwgb-G Av‡Q hv wkï‡`i AÜZ I ivZKvbv †ivM cwZ‡iv‡a mnvqZv K‡i| G Qvov m¤úY gvQ KvUvmn Lv Iqv hvq e‡j K¨vjwmqv‡gi Afve I `i nq| d‡j nvo I `v‡Zi MVb fvj nq|



Qwe t gjv gvQ

Avevm¯j

G gvQ me ai‡Yi Rjvk‡q cv Iqv hvq| Z‡e cavbZt b`x, cvebfwg, avb‡¶Z, wej, ev lo, Lvj Ges cK‡i cv Iqv hvq| gjv mvaviYZ Rjvk‡qi Dcwi fv‡Mi D™` Ges cvYx cvsKUb Lvq| i“B RvZxq gv‡Qi mv‡_ ev cwUi mv‡_ wgk PvI Ki‡j fvj Drcv`b cv Iqv hvq|

Lv`¨ I Lv`¨v f¨vm

gjv gvQ Rjvk‡qi Dcwi fv‡Mi Ges ga¨¯‡ii Lv`¨ Lvq| cY eq¯‹ gjv GK‡Kv lx Ges ZšRvZxq †kIjv, D™` I cvYx cvsKUb, †cv‡Uv‡Rvqv, AveRbv, D™`vsk †L‡q _v‡K|

cwic°Zv I cRbb

gjvi cRbb Kvj †g ‡_‡K A‡±vei chš| Giv eQ‡i `Ûevi cRbb K‡i| Z‡e cRb‡bi me‡P‡q Dch³ mgq AvMó gvm| M‡o wWg aviY ¶gZv cvq 4000wU|

†Xjv gv‡Qi Rxewe`¨v (**Biology of Dhela fish)**

†Xjv gv‡Qi †kYxweb¨vm (**Classification)**

Phylum - Chordata

Class- Actinopterygii (=Osteichthyes)

Order- Cypriniformes

Family- Cyprinidae

Genus- ***Osteobrama***

Species- ***O. cotio cotio***

¯vbxq bvg t ‡Xjv

Bs‡iRx bvg t Cotio

ewn¨K ˆewkó¨

†Xjv gv‡Qi gL †QvU I †VvU ‡bB| †`n Pvcv, we‡kl K‡i e¶‡`k (Kvb‡Kv cvLbvi wcQb †_‡K cvq cvLbv chš) Zx¶ fv‡e Pvcv| †`‡ni Dcwi fv‡M cô cvLbvi †Mvovq ‡ekx †MvjvKwZ wKšË wb‡Pi As‡k wKQUv Kg| wki`vov †iLv m¯úó †`Lv hvq| †`‡ni Dcwi fv‡Mi AvBk ‡QvU †dvUvmn i/cwj e‡Yi n‡q _v‡K| cvq cvLbv j¤v| c”Q cvLbv ¯úó fv‡e `Ôfv‡M wef³| †Xjv gv‡Qi Mo ^`N¨ 11 †mwg. chš n‡q _v‡K| avb †¶‡Z Kwc I gv‡Qi mv‡_ †Xjv gvQ Pv‡l fvj Drcv`b cvIqv hvq|

Qwe t ‡Xjv gvQ

Avevm¯j

G gvQ me ai‡Yi Rjvk‡q evm K‡i| Z‡e cavbZt b`x, cvebfwg, wej, evIo, Lvj Ges cKi †ekx cvIqv hvq|

Lv`¨ I Lv`¨vf¨vm

†Xjv gvQ mefK Z‡e cavbZt Dcwi fv‡Mi Lv`¨ Lvq| cY eq¯‹ †Xjv GK‡KvIx Ges ZšRvZxq †klIjv, Dw™` I cvYx cv¼Ub, AveRbv, BZ¨vw` †L‡q _v‡K|

cwic°Zv I cRbb

†Xjv gvQ eQ‡i `Ôevi cRbb K‡i| G‡`i cRb‡bi me‡P‡q Dch³ mgq †g †_‡K RjvB gvm| M‡o wWg avi Y ¶gZv cvq 1,050 †_‡Ki 9,360 wU|

RvZ cwUi Rxeweˆ`¨v (**Biology of Jat puti)**

RvZ cwUi †kYxweb¨vm (**Classification)**

Phylum - Chordata

Class- Actinopterygii (=Osteichthyes)

Order- Cypriniformes

Family- Cyprinidae

Genus- ***Puntius***

Species- ***P. sophore***

RvZ cwUi ¯vbxq bvg t RvZ cwU

Bs‡iRx bvg t Spotfin swamp barb

ewn¨K ˆewkó¨

cwU gv‡Qi 7 wU cRwZi g‡a¨ RvZ cwU Pv‡li Rb¨ Dc‡hvMx| G gv‡Qi †`n Pvcv I wcQ‡bi Ask mi“| †`‡ni wbgfvM mv`v wKš Dcwifv‡M D¾j QvB †_‡K meRvf QvB e‡Yi n‡q _v‡K| gL †QvU I †Kvb †Mvd †bB| Kvb‡Kvi wVK wcQ‡bB cô cvLbv I cô cvLbvi wb‡PB e¶ cvLbv Aew¯Z| †`‡n `ÔwU Kv‡jv †Mvj †dvUv Av‡Q, hvi GKwU Kvb‡Kvi wcQ‡b †QvU Kv‡jv †dvUv Ab¨wU eo Kv‡jv †dvUv hv cvq cvLbvi Dc‡i _v‡K| wki`vov †iLv Am¤úY| G cwU M‡o 5 ‡mwg. I m‡ev”P 14 †mwg. n‡q _v‡K| gjvmn Ab¨vb¨ †QvU gvQ A_ev i“B RvZxq gv‡Qi mv‡_ PvI K‡i fvj Drcv`b cvIqv hvq|

Qwe t RvZ cwU

Avevm¯j

G gvQ me ai‡bi Rjvk‡q evm K‡i| Z‡e cavbZt b`x, cvebfwg, avb †¶Z, wej, evIo, Lvj Ges cKi †ekx cvIqv hvq|

Lv`¨ I Lv`¨vf¨vm

RvZ cwU mvaviYZt ga¨¯‡ii Lv`¨ Lvq| cY eq¯‹ RvZcwU cvsKUwbK †kIjv, †iwUdvi, µv÷wmqvbm, †cvKvgvKo, RjR AvMvQv, †cwidvB‡Uvb, ewj I Kv`vh³ AvRebv, BZ¨w` †L‡q _v‡K|

cwic°Zv I cRbb

G gv‡Qi cRbb †gŠmg n‡jv †g †_‡K A‡±vei| wWg aviY ¶gZv 3,260 †_‡K 31,280 wU|

^K gv‡Qi RxeweÁvb **(Biology of Koi fish)**

^K gv‡Qi †kYxweb¨vm **(Classification)**

Phylum - Chordata

Class- Actinopterygii (=Osteichthyes)

Order- Perciformes

Family- Anabantidae

Genus- *Anabas*

Species- *A. testudineus*

mvaviY/ ¯vbxq bvg t ^K gvQ

Bs‡iRx bvg t Climbing perch

Qwe t ^K gvQ

ewn¨K ^ewkó¨

^K gvQ evsjv‡`‡k LeB Rbwcq gvQ wn‡m‡e cwiwPZ| GwU GKwU wRIj gvQ A_vr Giv mvgvb¨ cwb‡Z `xN¶Y †e‡P _vK‡Z cv‡i| G gv‡Qi gv_v eo I cvq wÎ‡KvYvKwZ| †`‡ni eY Kvj‡P-meR ev ev`wg-meR | gv_vmn mviv‡`n k³ AvBk w`‡q XvKv| `Ô‡Uv †Pvqv‡jB `vZ Av‡Q| cô I e¶ cvLbv aviv‡jv KvUvh³ | †jR AaP›`vKwZ| wki`vov †iLv `Ôfv‡M wef³ | ‰K gvQ Kvb‡Kv w`‡q ¯jfv‡M PjvPj Ki‡Z cv‡i| Kvb‡Kvi wcQ‡b Kv‡jv †dvUv we`¨gvb|

†`kx ^K gv‡Qi cvkvcwk Av‡iKwU bZb RvZ _vBj¨vÛ †_‡K Avbv n‡q‡Q| hv Ô_vB ^KÔ bv‡g cwiwPZ| G‡`i †`n eY †`kx ‰K gv‡Qi Zjbvq nvjKv d¨vKv‡k ai‡Yi Ges †`‡ni Dcwifv‡M †QvU †QvU Kv‡jv `vM _v‡K| eZgv‡b evsjv‡`‡k A‡bK AÂ‡jB mxwgZ AvKv‡i Ô_vB ^KÔ mdjfv‡e PvIvev` n‡"Q|

Avevm¯j

^K cavbZ: g³ Rjvkq ev cvebfwgi gvQ| Z‡e mvaviYZ: Lvj-wej, nvIi-evIo, cKi-w`Nx, †Wvev-bvjv Ges wbgw¾Z avb †¶‡ZI †`L‡Z cvIqv hvq| G gvQ¸‡jv Avowjqv RvZxq Dw™` Kjwg, †n‡jÂv Ges RjR Ab¨vb¨ †Svc-Svo I Wvj-cvjv Aa¨wIZ Rjvk‡q emevm Ki‡Z cQ›` K‡i| ‰K gvQ M‡Z wbgw¾Z Mv‡Qi ¸woi Zjvq ev mo‡½ emevm K‡i Ges †mvZnxb Ave× cwb‡Z †ewk †`L‡Z cvIqv hvq|

Lv`¨ I Lv`¨vfvm

^K gvQ mvaviYZ KxU-cZ½‡fvRx Ges Kvgwo‡q Kvgwo‡q Lvevi Lvq| RxebP‡µi wewfb chv‡q Giv wewfb ai‡Yi Lv`¨ †L‡q _v‡K| †hgb-

- ‡iY chvq t Av‡Uwgqv, R-c¨vsKUb, ¶` RjR †cvKv-gvKo BZ¨vw` AvKIbxq Lv`¨|
- R‡fbvBj chvq t R-c¨vsKUb, ¶` RjR †cvKv, wUDwewdwmW Iqvg|
- e‡qvcvß Ae¯vq t RjR †cvKv-gvKo, †eb‡_vm, wUDwewdwmW, ¶` wPswo I gvQ, †WwUUvm, cPbiZ cwYR `e¨vw`|

cwic°Zv I cRbb

c_g eQ‡iB ˆK gvQ cwic°Zv jvf K‡i I eQ‡i GKevi cRbb K‡i| m‡ev"P 17 †mwg.j¤v nq| ˆK gv‡Qi Dch³ cRbbKvj Gwcj †_‡K RjvB gvm| Z‡e Giv gvP gvm †_‡K †m‡Þ¤i gvm chš cRbb m¤úb K‡i _v‡K| cRbb ïi"i c‡e elvi ewó bvg‡jB cRb‡bi Rb¨ Giv avb‡¶Z, †Wvev, cKi-bvjv, Lvj-wej BZ¨vw` ¯v‡b P‡j hvq| mvaviYZ Giv †h RvqMvq _v‡K †m RvqMvq cRbb K‡i bv| ZvB wewWs gvB‡Mk‡bi gva¨‡g ¯vb e`j K‡i †bq| AZ:ci Giv bZb ¯v‡b G‡m †Svc-Svo RvZxq Dw™‡`i g‡a¨ Avkq wb‡q wWg Qv‡o I cRbb m¤úb K‡i _v‡K| G‡`i wWg fvmgvb| Zvcgv Îvi Dci wbfi K‡i 18-24 NÈvi g‡a¨ wbwl³ wWg d‡U ev"Pv †ei nq| D³ ev"Pv/†iY †cvbvi Kmg_wj 2/3 w`‡bi g‡a¨ µ‡g µ‡g †kl n‡j Av‡¯ Av‡¯ cvKwZK Lv`¨ MnY K‡i Ges µgvš‡q eo nq| G‡`i c‡Yw`Z cRbbI Kiv‡bv hvq| ci"l ˆK gv‡Qi Zjbvq ¯x ˆK gvQ AvKv‡i wKQUv eo nq| GKwU 80-100 Mvg IR‡bi ˆK gv‡Qi wWg avivY ¶gZv 6,000- 8,000 Gi g‡a¨ n‡q _v‡K|

wks gv‡Qi RxewÁvb **(Biology of Shing fish)**

wks gv‡Qi †kYxweb¨vm (**Classification)**

Phylum - Chordata
Class- Actinopterygii (=Osteichthyes)
Order- Siluriformes
Family- Heteropneustidae
Genus- *Heteropneustes*
Species- *H. fossilis*

¯vbxq bvg t wks

Bs‡iRx bvg t Stinging catfish

ewn¨K ˆewkó¨

wks gv‡Qi †`n j¤v, mvg‡bi w`K bjvKvi, wcQ‡bi w`K Pvcv, AvBkwenxb Ges gv_vi Dc‡i- bx‡P P¨vÞv| ‡`‡ni is †QvU Ae¯vq ev`vgx jvj Ges eo Ae¯vq ami Kvj‡P| g‡L Pvi ‡Rvov †Mvd (Barbel) _v‡K| gv_vi `Ûcv‡k welv³ `ÛwU KvUv (Spine) Av‡Q| cô cvLbv (Dorsal fin) †QvU †MvjvKwZ Ges cvq cvLbv (Pelvic fin) †ek j¤v, c"Q cvLbv (Caudal fin) †MvjvKwZ | wc‡Vi `Ûcv‡k `ÛwU AwZwi³ kmbhš (Accessory respiratory organ) i‡q‡Q| eZgv‡b evsjv‡`‡ki wewfb GjvKvq †`kx wks gvQ GKK ev wgk c×wZ‡Z me ai‡Yi RjvK‡q mdj fv‡e PvI n‡"Q|

Qwe t wks gvQ

Avevm¯j

wks gv‡Qi cavb Avevm¯j Lvj, wej, cvebfwg, nvli-evlo, cKi, †Wvev- bvjv, wbgw¾Z avb†¶Z | G Qvov K`gv³ Zjvi gwU‡Z, M‡Z wbgw¾Z Mv‡Qi Mwoi Zjvq ev mo‡½ Giv emevm Ki‡Z cQ›` K‡i| †mvZnxb Ave× cwb‡Z G‡`i †ewk †`L‡Z cvIqv hvq| wks gvQ AvMvQv, `j, KPwicvbv, cPv jZv-cvZv, Wvj-cvjv Aa¨wlZ Rjvk‡q ¯v"Q‡›` emevm Ki‡Z cv‡i|

Lv`¨ I Lv`¨vf¨vm

wks gvQ mvaviYZ mefK (Omnivorous), Rjvk‡qi Zjvi Lv`¨ †L‡q _v‡K| wks gvQ Zv‡`i Rxeb P‡µi wewfb chv‡q wewfb ai‡Yi Lv`¨ †L‡q _v‡K|

- ‡iY chvqt Av‡Uwgqv Ges R-c¨v¼Ub, ¶` RjR †cvKv-gvKo BZ¨w` AvKIbxq Lv`¨|
- R‡fbvBj chvqt R-c¨v¼Ub I ¶` RjR †cvKv, wUDwewdwmW Iqvg|
- e‡qvcvß Ae¯vq t RjR †cvKv-gvKo, †eb‡_vm, wUDwewdwmW Iqvg, ¶` wPswo I gvQ, †WwUUvm, cPbiZ cwYR `e¨w`|

cwic°Zv I cRbb

wks gvQ GK eQ‡iB cwic°Zv jvf K‡i Ges cRbb¶g nq| Giv mvaviYZ 20-30 †mwg. chš j¤v nq| wks gvQ eQ‡i GKevi cRbb K‡i _v‡K| Giv cvKwZK cwi‡e‡k AMfxi †Svc-Svo RvZxq Dw™`h³ GjvKvq cRbb m¤úb K‡i| Z‡e eZgv‡b †`‡ki wewfb n¨vPwi‡Z mxwgZ AvKv‡i mdjfv‡e c‡Yw`Z cRb‡bi gva¨‡g †cvbv Drcw`Z n‡"Q|

wks gv‡Qi Dch³ cRbbKvj †g gvm †_‡K †m‡Þ¤i gvm chš| Z‡e Rb- RjvB gv‡m m‡ev"P cRbb m¤úb K‡i _v‡K| ¯x wks gvQ ci"l wks gvQ A‡c¶v AvKv‡i eo n‡q _v‡K| mvaviYZ 40 †_‡K 70 Mvg IR‡bi wks gv‡Qi wWg avivY ¶gZv 8,000-10,000 wU| cwic° wWg nvjKv meR †_‡K Zvgv‡U e‡Yi nq| wbwl³ wWg AvVv‡jv nq Ges wbgw¾Z AvMvQv, ZY, Wvj-cvjv BZ¨w`‡Z †j‡M _v‡K|

gv¸i gv‡Qi RxeweÁvb **(Biology of Magur Fish)**

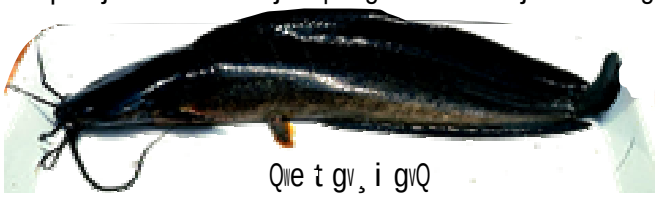
gvMi gv‡Qi †kYxweb¨vm **(Classification)**

Phylum - Chordata
Class- Actinopterygii (=Osteichthyes)
Order- Siluriformes
Family- Claridae
Genus- *Clarias*
Species- *C. batrachus*

¯vbxq bvg t gv¸i
Bs‡iRx bvg t Walking catfish

ewn¨K ˆewkó¨

gv¸i AvBkwenxb wRIj gvQ| †`n jvj‡P ev`wg ev ami Kv‡jv| G‡`i gv_v †ek P¨vÞv I gL ck¯| cô (Dorsal fin) I cvq cvLbv (Pelvic fin) j¤v Ges †j‡Ri Ask chš we¯Z| †j‡Ri Ask Pvcv I †Mvjv‡KwZ| g‡L Pvi †Rvov †Mvd (Barbel) Av‡Q| wc‡Vi `B cv‡k `‡Uv AwZwi³ kmbhš (Accessory respiratory organ) i‡q‡Q, hvi d‡j Giv `xN¶Y cwb Qvov †e‡P _vK‡Z cv‡i| evsjv‡`‡ki wewfb GjvKvq mxwgZ AvKv‡i mdjfv‡e †`kx gv¸i gv‡Qi ‡cvbv Drcv`b I Pvl n‡"Q|



Qwe t gv¸i gvQ

Avevm¯j

Lvj, wej, cvebfwg, nvIi-evIo, cKi w`Nx, †Wvev- bvjv Ges wbgw¾Z avb †¶Z gv¸i gv‡Qi cavb Avevm¯j| Giv Kv`vh³ cwb‡Z GgbwK K`gv³ Zjvi gwU‡Z, M‡Z, wbgw¾Z Mv‡Qi ¸woi Zjvq ev mo‡½ emevm Ki‡Z cQ›` K‡i| †mvZnxb Ave× cwb‡Z Ges AvMvQv, bj- LvMov I KPwicvbv, cPv Wvj-cvjv h³ Rjvk‡q emevm Ki‡Z cQ›` K‡i|

Lv`¨ I Lv`¨vf¨vm

gv¸i gvQ mvaviYZ mefK (Omnivorous) Ges Rjvk‡qi Zjvi Lv`¨ †L‡q _v‡K| Giv Rxeb P‡µi wewfb chv‡q wewfb ai‡Yi Lv`¨ †L‡q _v‡K| G‡`i Lv`¨vf¨vm A‡bKUv wks gv‡Qi gZB| †hgb-

- ‡iY chvqt Av‡Uwgqv Ges R-c¨vsKUb, ¶` RjR †cvKv-gvKo BZ¨vw`|
- R‡fbvBj chvqt R-c¨vsKUb I ¶` RjR †cvKv, wUDwewdwmW Iqvg|
- e‡qvcvß Ae¯vqt RjR †cvKv-gvKo, †eb‡_vm, wUDwewdwmW Iqvg, ¶` wPswo I gvQ, †WwUUvm, cPbiZ cwYR `e¨vw`|

cwic°Zv I cRbb

gv¸i gvQ GK eQ‡ii g‡a¨B cwic°Zv jvf K‡i Ges eQ‡i GKevi cRbb K‡i _v‡K| Giv mvaviYZ 20-30 †mwg. chš j¤v nq| GKB eq‡mi ¯x gv¸i gvQ ci"l gv¸i gv‡Qi Zjbvq wKQUv AvKv‡i eo nq| Giv cvKwZK cwi‡e‡k cRbb m¤úb K‡i| Z‡e eZgv‡b mdjfv‡e c‡Yw`Z cRb‡bi gva¨‡g mxgZ chv‡q ‡cvbv Drcw`Z n‡"Q| G‡`i cRbbKvj †g gvm †_‡K AvM÷ gvm chš| Z‡e Rb-RjvB gvm m‡ev"P cRbb Kvj wn‡m‡e we‡ewPZ| cRb‡bi mg‡q bZb cwb Avmvi mv‡_ mv‡_B Giv AwfcvqY K‡i wbKUeZx avb†¶Z, cvebfwg‡Z Av‡m Ges †mLv‡b gwU‡Z †MvjvKvi MZ K‡i Zv‡Z wWg Qv‡o| gv¸i gv‡Qi wWg aviY ¶gZv ^`wnK IR‡bi Ici A‡bKvs‡k wbfikxj| mvaviYZ 80 †_‡K 100 Mvg IR‡bi gv¸i gv‡Qi wWg aviY ¶gZv 7,000-10,000 wU| gv¸‡ii cwic° wWg nvjKv meR †_‡K Zvgv‡U e‡Yi n‡q _v‡K| wbwl³ wWg AvVv‡jv Ges Mv‡Qi Wvj-cvjv I AvMvQvq †j‡M _v‡K|

cve`v gv‡Qi Rxewe`¨v (**Biology of Pabda fish)**

cve`v gv‡Qi †kYxweb¨vm (**Classification)**

Phylum - Chordata
Class- Actinopterygii (=Osteichthyes)
Order- Cypriniformes
Family- Siluridae
Genus- ***Ompok***
Species- ***O. pabda***

¯vbxq bvg t cve`v

Bs‡iRx bvg t Butter catfish

ewnf¨K ^ewkó¨

cve`v gv‡Qi †`n AvBkwenxb| gvQwU AvKv‡i †PÞv Ges mvg‡bi w`K †_‡K wcQ‡bi w`K mi"| †`‡ni Dcwifv‡M ami i¡cwj I †c‡Ui w`K mv`v e‡Yi| gL †ek eo I evKv‡bv| g‡L 2 †Rvov †Mvd Av‡Q| bx‡Pi ‡Pvqvj Dc‡ii ‡Pvqv‡ji †P‡q ‡ek eo Ges †Pvqv‡j `vZ Av‡Q| cô cvLbv †QvU, cvq cvLbv †ek j¤v, †jR `ôfv‡M wef³| wki`vov †iLvi Dcwifv‡M nj`vf †Wviv `vM †`Lv hvq| Kvb‡Kvi wcQ‡b Kv‡jv ¯úó †dvUv Av‡Q| G gv‡Qi ^`N¨ 15-25 †mwg. n‡q _v‡K| †g-RjvB G gv‡Qi cRbb Kvj| wWg aviY ¶gZv 11,000 †_‡K 20,000wU| cve`v †cvKv-gvKo I †klj v Lvq| ¯x gvQ ci"l gv‡Qi †P‡q AvKv‡i eo nq|GKK ev wgk c×wZ‡Z G gvQ PvI Kiv hvq|

Qwe t cve`v gvQ

Avevm¯j

evsjv‡`‡ki meÎ b`x-bvjv, Lvj-wej, nvIi-evIo, elvq cwieZ fwg‡Z G‡`i cvIqv hvq|

Lv`¨ I Lv`¨vf¨vm

cve`v gvQ Rxeb P‡µi wewfb chv‡q wewfb ai‡Yi Lv`¨ †L‡q _v‡K| †hgb-

- ‡iY chvq t R-c¨v¼Ub I ‡cv‡Uv‡Rvqv †L‡q _v‡K|
- R‡fbvBj chvq t R-c¨v¼Ub I ¶` RjR †cvKv †L‡q _v‡K|
- e‡qvcvß Ae¯vq t ¶` wPswo, †K‡Pv, eo RjR D™‡`i Ask we‡kl, AveRbv, BZ¨w` †L‡q _v‡K|
- PvIKZ cK‡i m¤úiK Lv`¨ wnmv‡e mwilvi %Lj I wdk wgj †`qv hvq|

cwic°Zv I cRbb

cve`v gvQ c_g eQ‡iB cwic°Zv jvf K‡i Ges eQ‡i GKevi cRbb K‡i _v‡K| G gv‡Qi cRbb †gŠmg n‡jv †g †_‡K AvMó| Z‡e Rb Ges RjvB gv‡m m‡ev"P cRbb n‡q _v‡K| cvKwZK fv‡e cve`v gvQ mvaviYZt nvIi, wej I eb¨v cwieZ Rjvk‡q cRbb K‡i _v‡K| eZgv‡b c‡Yw`Z cRb‡bi gva¨g‡I †cvbv Drcw`Z n‡"Q| cwic° wWg¸‡jv meR †_‡K Zvgv‡U e‡Yi n‡q _v‡K| GKwU 40-100 Mvg IR‡bi cve`v gv‡Qi wWg avivY ¶gZv 3,260 †_‡K 31,280wU|

¸jkv gv‡Qi Rxewe`¨v **(Biology of Golsha fish)**

¸jkv gv‡Qi †kYxweb¨vm **(Classification)**

Phylum - Chordata
Class- Osteichthyes
Order- Actinopterygii (=Osteichthyes)
Family- Bagridae
Genus- ***Mystus***
Species- ***M. cavasius***

¯vbxq bvg t ¸jkv
Bs‡iRx bvg t Catfish

ewnK ^ewkó¨

¸jkv gv‡Qi ‡`n Pvcv‡bv Ges wc‡Vi Ask evKv| G gv‡Qi gL †ek †QvU I Dc‡ii †Pvqvj mvgvb¨ eo| cô I Kvb‡Kv cvLbv j¤v KvUvh³| Kvb‡Kv cvLbvi Wvbv Kiv‡Zi b¨vq LvRKvUv| †j‡Ri Wvbv KvUvh³, kix‡ii is RjcvB ami, wb‡Pi w`‡K wKQUv nvjKv| wki`ov †iLv eivei bxjvf †Wviv †`Lv hvq| G gv‡Qi ^`N¨ 15-23 †mwg. n‡q _v‡K| ¯x gvQ ci"l gv‡Qi Zjbvq eo n‡q _v‡K| GKK I wgk c×wZ‡Z G gvQ PvI Kiv hvq|

Qwe t ¸jkv gvQ

Avevm¯j

¸jkv evsjv‡`‡ki meÎ b`x-bvjv, Lvj-wej, cKi-`xwN, nvIi, avb‡¶Z, elvq cweZ fwg‡Z cvIqv hvq|

Lv`¨ I Lv`¨vf¨vm

¸jkv gvQ Rxeb P‡µi wewfb chv‡q wewfb ai‡Yi Lv`¨ †L‡q _v‡K| †hgb-

- ‡cvbv chvq t R-c¨v¼Ub I ‡cv‡Uv‡Rvqv|
- R‡fbvBj chvq t R-c¨v¼Ub I ¶` RjR †cvKv, gkvi jwf Ges cPv ^Re c`v_|
- e‡qvcvß Ae¯vq t cv¼Ub, †QvU RjR †cvKv, †K‡Pv,Ges cPv ^Re c`v_ BZ¨w`|
- PvIKZ cK‡i m¤úiK Lv`¨ wnmv‡e mwIlvi ‰Lj I wdk wgj †`qv hvq|

cwic°Zv I cRbb

¸jkv gvQ c_g eQ‡iB cwic°Zv jvf K‡i Ges eQ‡i GKevi cRbb K‡i _v‡K| G gv‡Qi cRbb †gŠmg n‡jv Rb †_‡K ‡m‡Þ¤i| Z‡e RjvB Ges AvMó gv‡m m‡ev"P cRbb n‡q _v‡K| cvKwZK fv‡e ¸jkv gvQ mvavIYZ nvIi, wej, avb‡¶Z I eb¨v cweZ Rjvk‡q cRbb K‡i _v‡K| eZgv‡b c‡Yw`Z cRb‡bi gva¨‡gI †cvbv Drcw`Z n‡"Q| wbwl³ wWg¸‡jv mv¸ `vbvi gZ AvVv‡jv Ges µxg e‡Yi n‡q _v‡K| GKwU 28-52 Mvg IR‡bi ¸jkv gv‡Qi wWg avIY ¶gZv 6,000 †_‡K 22,000 wU|

evUv gv‡Qi Rxewe`¨v (**Biology of Bata fish**)

evUv gv‡Qi †kYxweb¨vm (**Classification**)

Phylum - Chordata

Class- Actinopterygii (=Osteichthyes)

Order- Cypriniformes

Family- Cyprinidae

Genus- *Labeo*

Species- *L. bata*

¯vbxq bvg t evUv
Bs‡iRx bvg t carp

ewn¨K ^ewkó¨

evUv i"B RvZxq gv‡Qi †kYxf³ gvSwi AvKv‡ii †QvU gvQ| †`‡ni DcwifvM wKQUv ami Ges wb‡Pi Ask i¡cwj| gv_v †QvU Z‡e gL †ek eo| g‡L GK †Rvov †Mvd Av‡Q| †`‡ni AvBk¸‡jv Le m®úó fv‡e mvRv‡bv| †jR mgvb `ô fv‡M wef³| G gvQ †ek m¯v` I evRvi gj¨I †ekx| cK‡i Ges avb ‡¶‡Z GKK I wgk c×wZ‡Z G gvQ PvI Kiv hvq|

Qwe t evUv gvQ

Avevm¯j

evUv evsjv‡`‡ki meÎ b`x-bvjv, Lvj-wej, cKi-`wN, nvIi, avb‡¶Z, elvq cweZ fwg‡Z cvIqv hvq|

Lv`¨ I Lv`¨vf¨vm

evUv gvQ ‡cwidvBUb, AveRbv, †cvKv-gvK‡oi jwf, †cv‡Uv‡Rvqv, †kIjv BZ¨w` †L‡q _v‡K|

cwic°Zv I cRbb

elvKv‡j evUv gvQ cRbb K‡i| e× cwb‡Z G gvQ wWg †`q bv| GK eQ‡ii g‡a¨B cRbb¶g nq Ges c‡Ywu`Z cRb‡bi gva¨‡g G gv‡Qi †cvbv Drcv`b Kiv hvq|

Pwcjv gv‡Qi Rxewe`¨v **(Biology of Chapila fish)**

Pwcjv gv‡Qi †kYxweb¨vm **(Classification)**

Phylum - Chordata

Class- Actinopterygii (=Osteichthyes)

Order- Clupeiformes

Family- Clupeidae

Genus- ***Gudusia***

Species- ***G. chapra***

¯vbxq bvg t Pwcjv
Bs‡iRx bvg t Herring

ewnK ˆewkó¨

Pwcjv D¾j i¡cwj e‡Yi gvQ| kixi †PÞv, Dc‡ii As‡ki Zjbvq bx‡Pi Ask †ekx evKv‡bv| Nv‡oi Kv‡Q GKwU Kv‡jv `vM Av‡Q| G gvQ 20 †mwg. chš j¤v n‡q _v‡K| GKK I wgk c×wZ‡Z G gvQ Pvl Kiv †h‡Z cv‡i|

Qwe t Pwcjv gvQ

Avevm¯j

G ‡`‡ki b`x-bvjv, Lvj-wej elvq cweZ fwg‡Z G‡`i cvIqv hvq|

Lv`¨ I Lv`¨vf¨vm

†QvU Ae¯vq †cvKv-gvKo I †kIjv †L‡Z fvjev‡m| cvß eq‡m dvB‡Uvcvs KUb I †cv‡Uv‡Rvqv †L‡q _v‡K| Ae¯vq Pvl cK‡i m¤úiK Lv`¨ wnmv‡e mwilvi %Lj, PvD‡ji Kov, M‡gi fwl, wdk wgj BZ¨w` Lvq|

cwic°Zv I cRbb

cRbb Kvj Gwcj-AvMó gvm chš Ges eQ‡i `Ôevi cRbb K‡i| wWg avivY ¶gZv 25,200 †_‡K 15,4500 wU|

wdcPvU cwiKíbv

PvI‡hvM¨ †`kxq cRwZi gv‡Qi Rxewe`¨v	RvZ cwUi †kYxweb¨vm Phylum - Chordata Class- Osteichthyes Order- Cypriniformes Family- Cyprinidae Genus- ***Puntius*** Species- ***P. sophore*** RvZ cwUi ¯vbxq bvg t RvZ cwU Bs‡iRx bvg t Spotfin swamp barb
gjv gv‡Qi †kYxweb¨vm Phylum - Chordata Class- Osteichthyes Order- Cypriniformes Family- Cyprinidae Genus- ***Amblypharyngodon*** Species- ***A. mola*** ¯vbxq bvg t gjv Bs‡iRx bvg t Mola carplet	‰K gv‡Qi †kYxweb¨vm Phylum - Chordata Class- Osteichthyes Order- Perciformes Family- Anabantidae Genus- ***Anabas*** Species- ***A. testudineus*** mvaviY/ ¯vbxq bvg t ^K gvQ Bs‡iRx bvg t Climbing perch
†Xjv gv‡Qi †kYxweb¨vm Phylum - Chordata Class- Osteichthyes Order- Cypriniformes Family- Cyprinidae Genus- ***Osteobrama*** Species- ***O. cotio cotio*** ¯vbxq bvg t †Xjv Bs‡iRx bvg t Cotio	wks gv‡Qi †kYxweb¨vm Phylum - Chordata Class- Osteichthyes Order- Siluriformes Family- Heteropneustidae Genus- ***Heteropneustes*** Species- ***H. fossilis*** ¯vbxq bvg t wks Bs‡iRx bvg t Stinging catfish

wdcPvU cwiKíbv

PvI‡hvM¨ †`kxq cRvwZi gv‡Qi Rxewe`¨v	¸jkv gv‡Qi †kYxweb¨vm Phylum - Chordata Class- Osteichthyes Order- Cypriniformes Family- Bagridae Genus- ***Mystus*** Species- ***M. cavasius*** ¯vbxq bvg t ¸jkv Bs‡iRx bvg t Catfish
gvMi gv‡Qi †kYxweb¨vm Phylum - Chordata Class- Osteichthyes Order- Siluriformes Family- Claridae Genus- ***Clarias*** Species- ***C. batrachus*** ¯vbxq bvg t gv¸i Bs‡iRx bvg t Walking catfish	evUv gv‡Qi †kYxweb¨vm Phylum - Chordata Class- Osteichthyes Order- Cypriniformes Family- Cyprinida Genus- ***Labeo*** Species- ***L. bata*** ¯vbxq bvg t evUv Bs‡iRx bvg t carp
cve`v gv‡Qi †kYxweb¨vm Phylum - Chordata Class- Osteichthyes Order- Cypriniformes Family- Siluridae Genus- ***Ompok*** Species- ***O. pabda*** ¯vbxq bvg t cve`v Bs‡iRx bvg t Butter catfish	Pwcjv gv‡Qi †kYxweb¨vm Phylum - Chordata Class- Osteichthyes Order- Clupeiforme Family- Clupeidae Genus- ***Gudusia*** Species- ***G. chapra*** ¯vbxq bvg t Pwcjv Bs‡iRx bvg t Herring

Awa‡ekb cwiKíbv

w`b t 1 mgq t 13:15-14:00 †gqv`Kvj t 45 wgwbU

wk‡ivbvg	t	†QvU gv‡Qi Rxe‰ewPÎ¨ I msi¶Y †KŠkj|
Afxó `j	t	grm¨ wefvMxq I Ab¨vb¨ `ß‡ii KgKZve›`|
j¶¨	t	AskMnYKvix‡`i †QvU gv‡Qi Rxe‰ewPÎ¨ Ges Gi msi¶Y †KŠkj m¤ú‡K Ávb ew× Kiv n‡e hv‡Z AwRZ Áv‡bi Av‡jv‡K Zviv mswkó‡`i c‡qvRbxq civgk c`vb Ki‡Z cv‡ib|
D‡Ïk¨	t	G Awa‡ekb †k‡l cwkÿbv_xMYÑ • Rxe‰ewP‡Î¨i msÁv ej‡Z cvi‡eb; • Rxe‰ewP‡Î¨i eZgvb Ae¯v Rvb‡Z cvi‡eb; • Rxe‰ewPÎ¨ nv‡mi KviY e¨vL¨v Ki‡Z cvi‡eb; • Rxe‰ewPÎ¨ msi¶‡Yi Dcvqmgn ej‡Z I e¨vL¨v Ki‡Z cvi‡eb|

welqmwP	Av‡jvP¨ welq	cwk¶Y c×wZ	mgq
fwgKv			4 wgwbU
	• ¯vMZg • ceeZx Awa‡ek‡bi mv‡_ ms‡hvM ¯vcb (cavb wk¶Yxq welqmgn) • eZgvb Awa‡ek‡bi Dci Av‡jvKcvZ (wk‡ivbvg I D‡Ïk¨mgn) • DØ×KiY (Awa‡ek‡bi ¸i“Z)	e³Zv I c‡kvËi	
welqe¯			35 wgwbU
	• Rxe‰ewPÎ¨ I Rxe‰ewP‡Î¨i eZgvb Ae¯v; • Rxe‰ewPÎ¨ nv‡mi KviY- RbmsL¨v ew× i d‡j AwZ AvniY, AcwiKwíZ eva, KxUbvk‡Ki e¨envi, gv‡Qi Avevm¯j aŸsm, wWglqvjv gvQ wbab, cwb `lY, cwjRgvU, Lvj-wej-b`x BZ¨vw` fivU, B‡Kvwm‡÷g cwieZb, iv¶‡m gvQ `g‡b wel e¨envi, Kv‡i›U Rvj e¨envi, gv‡Qi †ivM| • ‡QvU gvQ msi¶Y †KŠkj- msi¶Y †KŠkj fwgKv, ‡KŠkjmgn e¨vL¨v, Afqvkg cwZôv, gv‡Qi Avevm¯j Dbqb, wdm cvm, †cvbv gR`, grm¨ AvB‡bi c‡qvM, m‡PZbZv ew×, †QvU gv‡Qi Dci M‡elYv|	e³Zv I g³ wPšvi So|	
mvi-ms‡¶c			6 wgwbU
	• gj wel‡qi cbiv‡jvPbv (cavb wk¶bxq welqmgn) • D‡Ïk¨ hvPvB I fj ms‡kvab • n¨vÛ AvDU weZiY • cieZx Awa‡ek‡bi mv‡_ ms‡hvM ¯vcb • ab¨ev` Ávcb	c‡kvËi	
cwk¶Y mnvqK mvgMx t †evW gvKvi, wfc KvW, wdcPvU, n¨vÛ AvDU BZ¨vw`			

†`kxq Rv‡Zi †QvU gv‡Qi Rxe‰ewP‡Î¨i eZgvb Ae¯v I KiYxq

Rxe‰ewPÎ¨

Rxe‰ewPÎ¨ n‡jv cKwZ‡Z Rx‡ei wfbZv (Variation) Ges ‰emv`k¨Zv (Variability)| A_ev Rxe‰ewPÎ¨ ej‡Z eSvq cKwZi wewPÎ ai‡Yi Rxe, hv wRb †_‡K cRwZ chš we¯Z Ges B‡Kwm‡÷‡gi wewfb av‡c Aew¯Z| Aciw`‡K Rxe‰ewPÎ¨ msi¶Y n‡jv KwZcq Kvhµ‡gi mgšq, †hgb- †Kvb Kw•LZ Rxe ev Rxe‡`i Ges G‡`i Avevmb I eskMwZ‡K i¶v Kiv; i¶Yv‡e¶‡Yi Rb¨ Dbqb Kvhµg ev¯evqb Kiv; m¤ú‡`i mnbkxj e¨envi; RjR Rx‡ei Avevm¯j Dbqb ev Dc‡hvMxKiY; Rxe‰ewPÎ¨‡K gvb‡li Kj¨v‡Y e¨envi Kiv hv‡Z fwel¨r cR‡b¥i Pwn`v ci‡Yi ¯vfweK cšv‡K A¶Z †i‡L Zv †_‡K eZgvb cRb¥ m‡ev”P Z_v †UKmB mweav †c‡Z cv‡i|

†`kxq Rv‡Zi †QvU gv‡Qi Rxe‰ewP‡Î¨i eZgvb Ae¯v

RjR Rxe‰ewPÎ¨ mg× †`k¸‡jvi g‡a¨ evsjv‡`k cw_exi Ab¨Zg| †hLv‡b cwb †mLv‡bB gvQ, G wQj evsjv‡`‡ki AZxZ HwZn¨| GK`v G †`‡ki b`x-bvjv, cKi-`xN, Lvj-wej, avb‡¶Z, iv¯vi cv‡ki †Wwev‡Z wQj †QvU gv‡Qi cvPhZv| Gme gv‡Qi g‡a¨ wQj cwU, †Usiv, gjv, †Xjv, cve`v, Pv›`v, Lwjkv, KvPwK, ^K, UwK, †e‡j, evBg, ¸jkv, wks, gv¸imn Avi I A‡bK Rv‡Zi gj¨evb †QvU gvQ| µgeagvb RbmsL¨vi Pv‡c gvb‡li evm¯vb I iv¯vNvU wbgv‡Yi Rb¨ A‡bK †QvU eo Rjvkq fivU K‡i †djv n‡q‡Q| cÙv b`xi DRv‡b wbwgZ dviv°v eva, grm¨ m¤ú‡`i ¶wZKi cfve we‡ePbvq bv G‡b wewfb eb¨v wbqšY eva I †mP KvVv‡gv wbgvY, elvKv‡j AZ¨waK cwj Rgvi Kvi‡Y A‡bK b`xi MwZc_ cwieZb, b`xi e‡K †R‡M DVv wekvj Pi mwói d‡j msKwPZ n‡”Q gv‡Qi Avevm¯j I cRbb †¶Î| ZvQvov wewfb D”P djbkxj km¨ Drcv`‡b †m‡Pi Rb¨ Rjvkq †_‡K AwZwi³ cwb wb®wk‡b kxZ I Liv ‡gŠm‡g Gme Rjvkq c‡ivcwi ïwK‡q hvq| djk“wZ‡Z ¶wZM¯ n‡”Q †QvU gv‡Qi Avevm¯j| ZvQvov ewaò RbmsL¨vi Pv‡c gv‡Qi AwZ AvniY, grm¨ m¤ú‡`i Rb¨ ¶wZKi A‰ea miÄvgw`i e¨envi, b`xi bve¨Zv nvm BZ¨w` Kvi‡Y b`x‡Z gv‡Qi Drcv`b µgvMZ nvm cv‡”Q Ges A‡bK †`kxq cRwZi †QvU gv‡Qi Aw¯Z wecb cvq (Mizid 2005, DoF 2005 K, DoF 2005 L, DoF 2009, FFP 2007)| evsjv‡`k ¯v`cwbi 260 cRwZi gv‡Qi g‡a¨ 12wU Pig wecb, 28wU wecb Ges 14wU msKUvcb cRwZ wnmv‡e wPwýZ n‡q‡Q| ¯v`cwbi wecb 54 cRwZ gv‡Qi g‡a¨ 32 cRwZB †QvU gvQ hvi 5wU Pig wecb, 18wU wecb I 9wU m¼Uvcb e‡j mbv³ Kiv n‡q‡Q (IUCN 2009)| cvebfwg‡Z mvaviYZ 50-60 cRwZi gvQ aiv c‡o hvi AwaKvskB †QvU gv‡Qi Ašf³| †hme b`x‡Z KvVv ev Rv‡Mi e¨envi †ewk †mme b`x‡Z gv‡Qi Rxe‰ewPÎ¨I †ewk| c¶vš‡i ï® †gŠm‡g †h b`xi cwb K‡g hvq Ges †hLv‡b KvVvi cwigvY Kg †mme b`x‡Z gv‡Qi Rxe‰ewPÎ¨I Kg cwijw¶Z nq|

Rxe‰ewPÎ¨ nv‡mi KviY

gvbemó I cwi‡ekMZ bvbwea Kvi‡Y Af¨šixY g³ Rjvk‡q †QvU gv‡Qi cvPhZv w`b w`b K‡g hv‡”Q Z_v Rxe‰ewPÎ¨ nvm cv‡”Q| †QvU gv‡Qi Rxe‰ewPÎ¨ nv‡m wb‡gv³ KviY¸‡jv D‡jL‡hvM¨ t

1| gv‡Qi AwaK AvniY
gvÎwZwi³ RbmsL¨v ew×‡Z ¯vfweKfv‡e g³ Rjvk‡q †QvU gvQ Avni‡Yi ceYZv ew× †c‡q‡Q| d‡j GKw`‡K Rjvk‡q gv‡Qi gR` nvm cvIqvq Rjvkq¸‡jv‡Z gv‡Qi Avkvbifc Drcv`b n‡”Q bv|

2| AcwiKwíZfv‡e eb¨v wbqšY eva, ¯BP †MU, iv¯v, †mP AeKvVv‡gv I Kvjfv‡U wbgvY
grm¨m¤ú‡`i Ici ¶wZKi cfve we‡ePbvq bv G‡b AcwiKwíZfv‡e eb¨v wbqšY eva, ¯BP †MBU, †mP bvjv, iv¯v I Kvjfv‡U BZ¨w` wbgv‡Yi d‡j cvebfwgi AvqZb Ges cwb Ae¯v‡bi mgq K‡g hv‡”Q Ges gv‡Qi cRbb †¶Îmgn µgvMZ nvm cv‡”Q| ZvQvov †h mKj we‡j mviv eQi cwb _vKZ †m¸‡jv GLb †gŠmgx Rjv‡Z cwiYZ nIqvq Zv‡Z wWgIqvjv gvQ wbqwgZ cRbb Ki‡Z cvi‡Q bv| Dciš AcwiKwíZ Gme AeKvVv‡gv wbgv‡Yi d‡j b`xi m‡½ we‡ji ev we‡ji m‡½ b`xi ms‡hvM wew”Qb nIqvq gv‡Qi cRbb Awfcvqb (Breeding migration) mxwgZ n‡q gv‡Qi cRbb evavM¯ nIqvq mwweK Drcv`b nvm cv‡”Q|

3| Kwl †¶‡Î gvÎwZwi³ I wbwl× KxUbvk‡Ki h‡_”Q e¨envi
eZgv‡b KwlKv‡R we‡kl K‡i D”P djbkxj avb Drcv`‡b KxUbvk‡Ki e¨vcK e¨envi n‡”Q| †QvU gvQ Z_v gvQ Pv‡li Dci KxUbvk‡Ki eûgwÎK ¶wZKi cfve cgwYZ n‡q‡Q| KxUbvk‡Ki cfv‡e cwbi ‡fŠZ-ivmvqwbK

¸Yvejxi nvm-ew× NUvq| d‡j RjR cwi‡e‡ki fvimvg¨ I ¸Yvejx bó nq| KxUbvkK Øviv RjR cwi‡ek `wlZ n‡j †h mKj cwZwµqv cwijw¶Z nq Zv wbgi¶ct

- RjR cwi‡e‡k emevmiZ Rx‡ei kvm-ckv‡mi Rb¨ c‡qvRbxq M¨v‡mi Av`vb-c`vb e¨vnZ nq|
- `wlZ cwi‡e‡k gvQmn Ab¨vb¨ RjR Rx‡ei Aw·‡R‡bi c‡qvRbxqZv 2-3 ¸Y ew× cvq|
- cwbi Zvcgv‡Î I wcGBP ew× †c‡j cwb‡Z AMv‡bvdmdivm RvZxq KxUbvk‡Ki KvhKwiZv 3-4 ¸b ew× cvq|
- cwZwU †f‡Z-ivmvqwbK cwieZbB gv‡Qi evPvi nvi, ew× I cRbb ¶gZv msi¶‡Yi mv‡_ m¤úwKZ| G ai‡Yi cwieZb cwbi Drcv`bkxjZv cZ¨¶ I c‡iv¶fv‡e cfweZ K‡i _v‡K|
- gv‡Qi cvKwZK Lv`¨ aŸsm Ges Lv`¨ wkKj (food chain) webó K‡i|
- gv‡Qi mivmwi gZ¨ NUvq|
- gv‡Qi I Ab¨vb¨ RjR Rx‡ei kvixieËxq cwieZb N‡U|
- cRbb I wePiY †¶‡Îi cwieZb nq|
- gv‡Qi †ivM-evjvB ew× cvq|

4| gv‡Qi cRbb I wePiY †¶Î Ges gv‡Qi Avevm¯j aŸsm/nvm

wewfb ai‡Yi DbqbgjK KgKvÛ †hgb- eb¨v wbqšY eva, AcwiKwíZ iv¯v I †mP Lvj wbgvY, hÎZÎ b`-b`x fivU K‡i AeKvVv‡gv wbgvY BZ¨w` bvbwea Kvi‡Y gv‡Qi Avevm¯‡ji ms‡KvP‡bi d‡j gvQ Z_v †QvU gv‡Qi cRbb wewNZ n‡"Q Ges Drcv`b µgvMZ nvm cv‡"Q| AwaKš Gme gv‡Qi cKZ Avevm¯j Z_v cvKwZK Rjvk‡qi Ecosystem-G gvivZ¥K cwieZb mvab †hgb- RjR D™` aŸsm n‡q hvIqv, Rjvkq m¤úYi¡‡c ïwK‡q †djvi d‡j Benthos I Ab¨vb¨ Rx‡ei msL¨v nvm cvIqvq †QvU gvQ w`b w`b K‡g hv‡"Q|

5| cRbb †gŠm‡g wWgIqvjv gvQ wbab

cRbb †gŠm‡g Kv‡i›U Rvjmn Ab¨vb¨ Abb‡gw`Z ¶wZKi Rvj I dv‡`i gva¨‡g e¨vcKfv‡e wewfb g³ Rjvkq †_‡K wWgIqvjv †QvU gvQ cwZwbqZ wba‡bi d‡j g³ Rjvk‡q †QvU gv‡Qi cRbb gvivZKfv‡e e¨vnZ n‡"Q|

6| Kj-KviLvbvi e‡R¨i gva¨‡g cwb `lY

µgvMZ wkívq‡bi d‡j Kj-KviLvbvi Acwi‡kwaZ eR¨ cwZwbqZ wbMZ nIqvq Gi welwµqvq g³ Rjvk‡qi cwi‡ek bó n‡"Q| d‡j e¨vcKfv‡e gvQ †ivMvµvš n‡"Q Ges gviv hv‡"Q|

7| b`x I Ab¨vb¨ g³ Rjvk‡q cwj Rgv

Lvj-wej I b`-b`x‡Z e¨vcKnv‡i cwj Rgvi d‡j GKw`‡K †hgb Zv‡`i DrmgL eÜ n‡q hv‡"Q, Ab¨w`‡K nvIi-evIo I we‡ji MfxiZv nvm †c‡q chvqµ‡g †m¸‡jv avb‡¶‡Z i¡cvšwiZ n‡"Q| ZvQvov `xNw`b b`-b`x ‡WRs bv Kivq Ges wewfb ev‡ai Kvi‡Y ïK‡bv †gŠm‡g cvq me b`x ïwK‡q b`-b`x‡Z cwbi cevn K‡g hvq| ZvQvov µgvMZ b`x fv½b Ges eb DRv‡ii d‡j cwj Rgvi cwigvY w`b w`b ew× cvIqvq †QvU gv‡Qi cRbb I wePiY †¶Î K‡g hv‡"Q|

8| Lvj-wej fivU K‡i Rbc` M‡o DVv

RbmsL¨v ew×i d‡j Lvj-wej fivU K‡i bZb K‡i emZevox I wkí KviLvbv wbwgZ n‡"Q| G‡Z Rjvk‡qi cwigvY µgvš‡q nvm cv‡"Q|

9| Rjvfwg‡K Kwl fwg‡Z i¡cvši

RbmsL¨v ew×i d‡j ewaZ Rb‡Mwôi Lv`¨ Pwn`v †gUv‡Z Rjvfwg¸‡jv‡K µgvMZ Kwl Rwg‡Z i¡cvši Kiv n‡"Q|

10| cveb fwgi **Ecosystem** cwieZb

Rjvfwgi Ae¶q †hgb- †mP Kvhµg, cwj RgvU, Kj-KviLvbv n‡Z wbMZ eR¨, AwZ AvniY, wWgIqvjv gvQ wbaY, cRbb †¶‡Îi cwieZb I nvm, cwb cev‡ni w`K cwieZb BZ¨w` Kvi‡Y cvebfwgi Ecosystem aŸsm n‡"Q|

11| cwb ïwK‡q ev †m‡P gvQ AvniY

mvaviYZt ïK‡bv †gŠm‡g wWgIqvjv †QvU gvQ¸‡jv cieZx cRbb †gŠm‡g wWg Qvovi A‡c¶vq †QvU †QvU Rjvk‡q Avkq MnY K‡i| wKš †mP Kv‡R A_ev gvQ aivi Rb¨ Gme Rjvkq¸‡jv m¤úYfv‡e ïwK‡q †djvq wWgIqvjv †QvU gvQ I Zv‡`i Avevm¯j aŸsm nIqvq esk ew×‡Z evavM¯ nq|

12| Kwl Rwg‡Z AwZgvÎvq †mP

D"P djbkxj avb I Ab¨vb¨ dm‡ji Drcv`b e¨w×i Rb¨ f-cô I f-Mf¯ cwb AwZgvÎvq e¨env‡ii d‡j †hgb f-cô¯ Rjvkqmg‡ni cwb nvm cv‡"Q †Zgwb f-Mf¯ cwbi ¯i µgvMZ wb‡P ‡b‡g hv‡"Q| d‡j Rjvkqmg‡n KvswLZ gvÎvq cwb bv _vKvq †QvU gv‡Qi cRbb †¶Î I Avevm¯j bó n‡"Q|

13| wel c‡qv‡Mi gva¨‡g Kw•LZ Pvl e¨e¯vcbvq iv¶‡m I AewÃZ gvQ `ixKiY

Kvc I Ab¨vb¨ gvQ Pv‡li †¶‡Î cKi c¯wZi Ask wnmv‡e iv¶‡m I AewÃZ gvQ `ixKi‡Yi wbwg‡Ë wel c‡qvM Kiv nq| d‡j H Rjvk‡qi †QvU gvQmgn m¤úYfv‡e wbab n‡q hvq Ges Ecosystem m¤úYi¡‡c aŸsm n‡q hvq|

14| Kv‡i›U Rvjmn Ab¨vb¨ Abb‡gw`Z ¶wZKi Rvj I dv‡`i e¨vcK e¨envi

A‰ea Kv‡i›U Rvjmn Ab¨vb¨ Abb‡gw`Z Rvj (‡hgb- †eûw›` Rvj, gkvix Rvj, †fmvj Rvj BZ¨w`) I dv` BZ¨w`i gva¨‡g wewfb Rjvkq ‡_‡K wbwePv‡i wWglqvjv †QvU gvQ I †cvbv wbab Kiv n‡"Q|

15| gv‡Qi †ivM

1988 mvj †_‡K †QvU gvQ we‡kl K‡i ‡`kxq cwU I UwK gvQ e¨vcKfv‡e ¶Z‡iv‡M Avµvš nq| d‡j G `ÔwU cRwZmn Ab¨vb¨ wKQ †QvU gv‡Qi cvPhZv K‡g hvq|

16| we‡`kx cRwZi gv‡Qi cfve

AwZgvÎvq we‡`kx gv‡Qi Pvl m¤cmvi‡Yi d‡j †`kxq †QvU gv‡Qi Rxe‰ewPÎ µgvMZ nvm cvlqvq ‡QvU gv‡Qi we¯vi ûgKxi m¤§Lxb|

17| Avenvlqvi cwieZ‡bi d‡j evsjv‡`‡ki `w¶Y-ce I DËi-cwðgvs‡k cwbi Afve

evsjv‡`‡ki `w¶Y-ce we‡kl K‡i DËi cwðgvs‡k ï® Avenvlqv weivR Kivq cwZwbqZ Rjvfwgi cwieZb n‡"Q| DËi cwðgvs‡k µgvMZ gi"KiY cwµqvi d‡j b`-b`xmn Ab¨vb¨ Rjvkq ïwK‡q hvlqvq grm¨Kj m¤úY aŸsm n‡q hv‡"Q|

†QvU gvQ msi¶Y †KŠkj

evsjv‡`‡ki gvb‡li cwó Pwn`v ci‡Y †QvU gv‡Qi Amvgvb¨ fwgKv i‡q‡Q| †QvU gvQ‡K G †`‡k cKwZi Avkxev` wn‡m‡e we‡ePbv Kiv nq| eZgv‡b †QvU gv‡Qi Aw¯‡Zi Rb¨ me‡P‡q eo ûgwK n‡"Q Avevm¯‡ji e¨vcK ms‡KvPb Ges b`x-bvjv Lvj-we‡ji RjR cwi‡e‡ki weeZb| AcwiKwíZ I mgšqnxb Dbqb I Drcv`b e¨e¯vi Kvi‡Y mvgwMKfv‡e Ab¨vb¨ gv‡Qi g‡Zv †QvU gv‡Qi Drcv`bI µgkt K‡g Avm‡Q| mv¤cwZK mg‡q Gme gvQ msi¶Y I Drcv`b e¨w×i j‡¶¨ Kvhµg nv‡Z †bqv n‡q‡Q| †QvU gvQ‡K AewÃZ gvQ wnmv‡e MY¨ bv K‡i G‡`i‡K ˆeÁwbK c×wZ‡Z Pv‡li AvIZvq Avb‡Z n‡e| RjR cwi‡e‡ki mô e¨e¯vcbvi gva¨‡g †QvU gv‡Qi esk we¯v‡ii m‡hvM mwó K‡i G‡`i Drcv`b evov‡Z n‡e| cvkvcwk Af¨šixb g³ Rjvk‡q cwiKwíZ Afqvkg ¯vcb I mvgwRK m‡PZbZv e¨w× Ki‡Z n‡e| G Qvovl ivR¯wfwËK BRviv c_vi cwie‡Z Rjgnv‡ji ˆRweK Drcv`bgjK e¨e¯vcbvi gva¨‡g ivR¯ Av`vq ev¯evqb Ki‡Z n‡e hv‡Z RjR m¤ú‡`i mnbkxj e¨envi, Avevm¯j Dbqb I Rxe‰ewPÎ¨‡K gvb‡li Kj¨v‡Y e¨envi Kiv hvq| G j‡¶¨ c‡qvRbxq cwiKíbv MnYceK wecbZvi nvZ †_‡K gj¨evb grm¨ cRwZmgn i¶vq mswkó mKj‡K `p c`‡¶c wb‡Z n‡e| GQvov g³ Rjvkq e¨e¯vcbvi cvkvcwk cK‡i i"BRvZxq gv‡Qi mv‡_ e¨vcKfv‡e †QvU gv‡Qi wgkPvl I G‡`i msi¶‡Y MYm‡PZbZv e¨w×mn m¤cmvi‡Y Avil m‡Pó n‡Z n‡e| B‡Zvg‡a¨ grm¨ Awa`ßi gvV chv‡q Pwl‡`i cK‡i †`kxq cRwZi ‡QvU gvQ Pvl m¤cmvi‡Y wewfb ai‡Yi KgmPx MnY I ev¯evqb Ki‡Q|

†QvU gv‡Qi cvc¨Zv e¨w× Z_v Rxe‰ewPÎ¨ msi¶‡Y wb‡gv³ †KŠkjMZ c`‡¶c MnY Kiv hvq t

1| Afqvkg cwZôv

grm¨ m¤ú‡`i mô e¨e¯vcbvi ¯v‡_ †`‡ki b`-b`x ev Af¨šixY g³ Rjvk‡q ‡QvU gv‡Qi A‰ea I AwbqwšZ AvniY eÜ Kiv AZ¨š Ri"ix| G j‡¶¨ mviv‡`‡k wewfb b`-b`x, nvli-evlo I we‡ji wbewPZ As‡k wbqwšZfv‡e †QvU gv‡Qi AvniY eÜ I Zv‡`i esk we¯v‡ii j‡¶¨ grm¨ Afqvkg cwZôv Ki‡Z n‡e| G ai‡Yi e¨e¯vcbvq cvKwZK cRb‡bi m‡hvM mwói gva¨‡g †QvU gv‡Qi esk we¯vi NwUq Drcv`b e¨w× I Rxe‰ewPÎ¨ msi¶Y Kiv m¤e| cvKwZK Rjvk‡q we‡kl wKQ ¯vb i‡q‡Q †hLv‡b wewfb cRwZi gvQ emevm K‡i I cRb‡bi gva¨‡g esk e¨w× K‡i _v‡K| Gme ¯v‡b gv‡Qi mhZ msi¶Y I cwiPhv gv‡Qi esk e¨w× m‡½ m‡½ Drcv`bI e¨w× Ki‡e| memgqB cwb _v‡K Ggb K‡qKwU mweavRbK ¯vb †NivI K‡i Wvjcvjv †d‡j gv‡Qi Rb¨ miw¶Z Avkq mwó Ki‡Z n‡e| GLv‡b †Kvb

mg‡q gvQ aiv hv‡e bv ev Ggb †Kvb cwiw¯wZ mwó Kiv n‡e bv, hv H ¯v‡bi cwi‡ek‡K bó K‡i| Afqvk‡g gvQ wbivc‡` _vK‡e, eo n‡e I elv AvMg‡bi mv‡_ mv‡_ cRb‡bi gva¨‡g esk ew× Ki‡e| cwb ew×i m‡½ m‡½ bZb Rb¨ †bqv †cvbv gvQ cvebfwg‡Z Qwo‡q co‡e| Avevi cwZwôZ Avkq¯j †Q‡o eo gvQI Lv‡`¨i A‡šl‡Y Afqvk‡gi evB‡i †ewi‡q Avm‡e| G‡`i g‡a¨ A‡bK gvQB †R‡j‡`i Rv‡j aiv co‡e I wKQ Afqvk‡g wbivc` Avk‡q Ae¯vb †b‡e| c‡ii ermi Giv Avevi e"W÷K wn‡m‡e esk we¯v‡i mnvqZv Ki‡e| Gfv‡e grm¨ cRwZi Rxe‰ewPÎ¨ i¶vmn Avi I †ewk cwigvY grm¨ Drcv`b wbwðZ n‡e|

2| gv‡Qi Avevm¯j Dbqb

mviv‡`‡k †QvU †QvU A‡bK b`x I Lvj-wej Ges Z`msjM Rjvkqmgn weiƒc cvKwZK cwi‡ek I cwj R‡g fivU n‡q hvIqvi Kvi‡Y †QvU gv‡Qi Aeva wePiY I cRb‡bi Abc‡hvMx n‡q c‡o‡Q| G mKj Rjvkq mvgvb¨ ms¯vi K‡i cbivq †QvU gv‡Qi Aeva wePiY †¶‡Î cwiYZ Kiv †h‡Z cv‡i| ZvQvov ms¯vi K‡i cvebfwgi mv‡_ Lv‡ji gva¨‡g b`-b`xi ms‡hvM cbt¯vcb Ki‡Z n‡e| gv‡Qi Avevm¯j Dbqb Kvhµg †QvU gv‡Qi esk we¯vi Ges Rxe‰ewPÎ¨ msi¶‡Y ¸i"ZcY fwgKv cvjb K‡i|

3| Pv‡li gva¨‡g †QvU gvQ msi¶Y

i"BRvZxq gvQ I Ab¨vb¨ gvQ Pv‡l cKi c¯ZKvjxb mg‡q †QvU gvQ‡K AewÃZ wnmv‡e MY¨ K‡i cKi †m‡P ev wel c‡qv‡Mi gva¨‡g G‡`i wbab Kiv n‡Zv| djk"wZ‡Z GmKj gv‡Qi cvPhZv nvm ‡c‡Z _v‡K| G Ae¯v ‡_‡K DËi‡Yi j‡¶¨ e× Rjvk‡q Pv‡li gva¨‡g †`kxq cRwZi †QvU gv‡Qi cvc¨Zv ew×i Rb¨ wbgi¶c c`‡¶c MnY Kiv †h‡Z cv‡i t

- †QvU gvQ Pv‡li ¸i"Z Abaveb, Dc‡hvMx cK‡ii aiY, cvKwZK cRbb, Lv`¨ I Lv`¨ Mn‡Yi ¯fve m¤ú‡K avivYv _vKv|
- ¯vbxqfv‡e cvc¨ †`kxq cRwZi †QvU gvQ cK‡i gR` Kiv|
- †QvU cRwZi gv‡Qi eskew× I Lv‡`¨i †hvMv‡bi mwea¥_ cK‡ii wKbv¥i wbqwšZ gvÎvq RjR D™` †hgb-Kjwg, †n‡jÂv, gvjÂ BZ¨w` ivLvi e¨e¯v Kiv|
- avb‡¶‡Z †QvU cRwZi gvQ Pv‡li e¨e¯v Kiv Ges G ai‡bi †QvU gvQ mviv eQi cwßi mwea¥_ avb‡¶‡Z †QvU AvKv‡ii wgwb cKi ˆZix Kiv|
- †QvU gv‡Qi cRbb †gŠmg m¤ú‡K mswkó RbMY‡K m‡PZb Kiv Ges †m mgq cK‡i Rvj Uvbv t_‡K weiZ _vKv A_ev c‡qvR‡b eo dvm wewkó Rvj e¨envi Kiv|
- cKi c¯Z Kivi mgq iv¶‡m I AewÃZ gvQ `ixKi‡Y wel c‡qvM‡K wbi"rmwnZ Kiv Ges evi evi Rvj Uvbv c×wZ e¨envi‡i DrmwnZ Kiv|
- Rjvkq I iv¯vi cv‡ki Lv‡` A_ev e‡iwc‡U (borrow pit) mgvRwfwËK e¨e¯vcbvi gva¨‡g †QvU gvQ Pvl I msi¶‡Yi e¨e¯v Kiv|
- ¯vbxqfv‡e cvc¨ †cvbvi Ici wfwË K‡i i"BRvZxq gv‡Qi mv‡_ †QvU gv‡Qi wgkPvl Kiv|
- cKi I Ab¨vb¨ Rjvkq m¤úYi¡‡c †m‡P gvQ AvniY Kiv t_‡K weiZ _vKv, Z‡e cKi ïKv‡bv Avek¨K n‡j GK †Kvbvq Kqv ev MZ ˆZix K‡i †QvU cRwZi gvQ ivLvi e¨e¯v Kiv|
  Gme e¨e¯vcbvi cvkvcwk cK‡i Ab¨vb¨ gv‡Qi mv‡_ e¨vcKfv‡e †QvU gv‡Qi wgk Pvl I †QvU gvQ msi¶‡Y m‡PZbZv ew×mn G‡`i Pvl m¤cmvi‡Y Avi I m‡Pó n‡Z n‡e| B‡Zvg‡a¨ grm¨ Awa`ßi gvV chv‡q cK‡i t`kxq cRwZi gvQ Pvl I m¤cmvi‡Y wewfb ai‡bi KgmwP MnY I ev¯evqb Ki‡Q| GB Kvhµg‡K Avi I MwZkxj K‡i mviv‡`‡k Qwo‡q w`‡Z n‡e|

4| wdk cvm I wdk ‡dÛwj AKvVv‡gv wbgvY

eb¨v wbqšY eva ev †cvìvi Ges MvgvÂ‡j AcwiKwíZ KvPv-cvKv iv¯v BZ¨w` wbgv‡Yi d‡j cvebfwg‡Z †QvU gv‡Qi Aeva wePiY I cRbb †¶Îmgn ûgwKi m¤§Lxb| Gme AeKvVv‡gv wbgv‡Yi d‡j b`x t_‡K we‡j ev wej t_‡K b`x‡Z gv‡Qi cRbb Z_v mweK AwfcvqY evavM¯ nIqvq †`‡k grm¨ Drcv`b nvm cv‡"Q| wdk cvm ev wdk †dÛwj AeKvVv‡gv wbgvY K‡i gv‡Qi Aeva hvZvqvZ I cRbb †¶‡Îi Dbqb NUv‡Z cvi‡j G mgm¨v A‡bKvs‡k `i Kiv Ges cveb fwg‡Z †`kxq †QvU gv‡Qi e¨vcK esk we¯vi NUv‡bv m¤e n‡e| †gŠjfxevRvi †Rjvi ivRbMi Dc‡Rjvaxb cwb

Dbqb †ev‡Wi eb¨v wbqšY evamsjM gb b`x‡Z CIDA[1] Gi Aww_K mnvqZvq GKwU wdk cvm wbgvY Kiv n‡q‡Q| wbwgZ wdk cvmwUi Kvhµg B‡Zvg‡a¨ AZ¨š djcm e‡j cgwYZ n‡q‡Q| †`kxq cRwZi †QvU gv‡Qi cvKwZK esk we¯vi I Rxe‰ewPÎ¨ msi¶‡Y cwiKwíZ Dcv‡q Avi I G ai‡Yi KvVv‡gv chvqµ‡g M‡o Zj‡Z n‡e|

5| †`kxq Rv‡Zi †QvU gv‡Qi †cvbv Drcv`b I cvebfwg‡Z gR`KiY

†`‡ki Db¥³ Rjvk‡q †QvU gvQmg‡ni µgnvmgvb Ae¯vi BwZevPK cwieZb I Rxe‰ewPÎ¨ msi¶‡Yi j‡¶¨ cvebfwg‡Z chvqµ‡g †QvU gv‡Qi †cvbv gR` Kiv †h‡Z cv‡i| G‡¶‡Î AwZ wecb I msKUvcb †QvU gvQ¸‡jvi c‡Yw`Z cRb‡bi gva¨‡g Drcw`Z †cvbv Rjvk‡q Qvov DwPZ| B‡Zvg‡a¨ A‡bK †QvU gvQ †hgb ^K, ¸jkv, cve`v, gv¸i, wks, †gwb, evUv, Zviv evBgmn †ek wKQ gv‡Qi c‡Yw`Z cRbb I †cvbv Drcv`b m¤e n‡q‡Q| Avi I †h mg¯ †QvU gv‡Qi Rb¨ G ai‡Yi D‡`¨vM MnY Kiv †h‡Z cv‡i Zvi g‡a¨ i‡q‡Q Lijv, Zvcwm, evBg, ¸wP, dwj, fvMbv, †e‡j, †Usiv, KvRjx, evZvmx BZ¨w`|

6| grm¨ msi¶Y AvBb 1950 ev¯evqb **(DoF** 2002)

wbwePv‡i †cvbv I wWglqvjv gvQ wbab grm¨ m¤ú` ew×i c‡_ eo Ašivq| G Kvi‡Y Avgv‡`i †`‡k grm¨ m¤ú` we‡kl K‡i †`kxq cRwZi †QvU gvQ ax‡i ax‡i wejß n‡Z hv‡”Q| gv‡Qi wejwß †ivaKiY, wbqg gwdK grm¨ AvniY, cRbb¶g gvQ‡K i¶v Kivi Rb¨ grm¨ AvBb AZxe Ri“ix| G AvB‡b t

K) b`x-bvjv, Lvj-we‡j ¯vqx ¯vcbvi gva¨‡g (wd · W BwÄb) grm¨ AvniY Kiv hw‡e bv, Gi¡c †¶‡Î ¯vqx ¯vcbv mxR I ev‡RqvB Kiv hv‡e|

L) †mP, eb¨v wbqšY ev b`gvi D‡Ïk¨ e¨ZxZ b`x-bvjv, Lvj-we‡j A¯vqx ev ¯vqx eva BZ¨w` ev †Kvb AeKvVv‡gv wbgvY Kiv hv‡e bv|

M) Rjvfwg‡Z wel c‡qvM, `lY, ewYR¨K eR¨ ev Ab¨wea Dcv‡q gvQ aŸsm ev aŸs‡mi c`‡¶c MnY Kiv hv‡e bv|

N) gvQ aivi †¶‡Î 4.5 †mwg ev Z`v‡c¶v Kg e¨vm ev ‰`‡N¨i dvm wewkó Kv‡i›U Rvj ev dvm Rvj e¨envi wbwl×|

G AvBb Agvb¨Kvix‡K c_gevi Aciv‡ai Rb¨ Kgc‡¶ 1 gvm n‡Z m‡ev”P 6 gvm mkg Kviv`Û Ges m‡ev”P 1,000 UvKv Rwigvbv| cieZx cwZevi AvBb f‡½i Rb¨ Kgc‡¶ 2 gvm n‡Z 1 eQi mkg Kviv`Û Ges m‡ev”P 2,000 UvKv Rwigvbv| ZvQvov grm¨ msi¶Y AvBb Avi I hM‡cv‡hvMxKiY I cPwjZ grm¨ AvB‡bi h_vh_ c‡qvM Ges RbMY‡K AvBb gvb‡Z m‡PZb Ki‡Z cvi‡j g³ Rjvk‡q ‡`kxq †QvU gv‡Qi cvc¨Zv w`b w`b ew× cv‡e|

7| mvgwRK m‡PZbZv ew×

†QvU gv‡Qi eZgvb AvksKvRbK Ae¯vi DËiY I Zv‡`i Avevm¯j cYi“×v‡ii e¨vcv‡i mvgwRK Av‡›`vj‡bi gva¨‡g †`kevmx‡K m‡PZb K‡i Zj‡Z n‡e| ïK‡bv †gŠm‡g †m‡Pi gva¨‡g Rjvkqmgn‡K c‡ivcwi ïwK‡q †djv, km¨‡¶‡Z wbwl× KxUbvkK AwZgvÎvq e¨envi Ges e¨vcKnv‡i wWglqvjv I †cvbv gvQ wba‡bi Kdj m¤úK© mevB‡K m‡PZb Ki‡Z n‡e| cKi c¯wZi mgq †QvU gvQ wba‡bi Rb¨ wel, †iv‡Ubbmn Ab¨vb¨ ivmvqwbK `e¨w`i e¨envi mZKZv Aej¤b Kiv DwPZ| wewfb mg‡q cK‡i Pv‡li Rb¨ wb‡q Avmv we‡`kx cRwZi gvQ eb¨vi cwb‡Z †f‡m hv‡Z Db¥³ Rjvk‡q Qwo‡q co‡Z bv cv‡i ‡m wel‡q we‡kl mZKZv Aej¤b Ki‡Z n‡e|

8| evsjv‡`‡k †QvU gvQ welqK M‡elYv

gjZ 1988 mvj †_‡K †QvU gvQ m¤ú‡K M‡elYv Kvhµg ïi“ nq| grm¨ Awa`ßi 70-80ôi `k‡K wRIj gvQ we‡klZ gv¸i gv‡Qi cRbb I Pv‡li lci cKí MnY K‡i| 1995 m‡b BD‡ivcxq BDwbq‡bi mnvqZvq IFADEP SP-2 cK‡íi AvIZvq gvV chv‡q wewfb †QvU gvQ †hgb- gjv, †Xjv, fv½b evUv, fvsbv, Pwcjv, evBg I Lwjkv gv‡Qi wgkPv‡li lci wbix¶vgjK KvR nq (Felts *et. al.* 1996)| evsjv‡`k grm¨ M‡elYv BwówUDU cve`v, ¸jkv, gv¸i, wks, ‰K I evUv gv‡Qi cRbb I Pvl e¨e¯vcbvi lci mdj chw³ D™ve‡b m¶g n‡q‡Q| ZvQvov evsjv‡`k Kwl wekwe`¨vj‡qi gvrm¨ weÁvb Abl‡` GKv‡WwgK M‡elYv Kv‡Ri Ask wnmv‡e mËi `kK †_‡K wewfb †QvU gv‡Qi we‡kl K‡i gv¸i, wks, cwU, gjv cfwZ gv‡Qi RxeZwËK, cRbb, Pvl, m¤úiK Lv`¨ D™veb I grm¨ cwµqvRvZKi‡Yi lci M‡elYv KvR cwiPwjZ n‡q Avm‡Q|

[1] Canadian International Development Agency.

wdc PvU cwiKíbv

†QvU gv‡Qi Rxe‰ewP‡Î¨i eZgvb Ae¯v I msi¶Y †KŠkj	Rxe‰ewPÎ¨ Rxe‰ewPÎ¨ ej‡Z ewS wewPÎ ai‡Yi Rxe hv wRb †_‡K cRwZ chš we¯Z hv B‡Kwm‡÷‡gi wewfb av‡c Aew¯Z| GK K_vq Rxe ˆewPÎ¨ n‡jv cKwZi wfbZv (variation) Ges cwiewZZv (variability)|
Rxe‰ewPÎ¨ nv‡mi KviY • RbmsL¨v ew×i d‡j gv‡Qi AwaK AvniY • AcwiKwíZfv‡e eb¨v wbqšY eva, ¯BP †MBU, iv¯v I Kvjfv‡U wbgvY • Kwl‡¶‡Î gvÎwZwi³ I wbwl× KxUbvk‡Ki e¨envi • gv‡Qi cRbb I wePiY †¶Î Ges Avevm¯j aŸsm/ nvm • cRbb †gŠm‡g wWglqvjv gvQ wbab • Kj-KviLvbvi e‡R¨i gva¨‡g cwb `lY • b`x I Ab¨vb¨ g³ Rjvk‡q cwj RgvU • Lvj-wej fivU K‡i Rbc` M‡o DVv • Rjvfwg‡K Kwl Rwg‡Z i¡cvši • cvebfwgi B‡Kwm‡÷g cwieZb • cwb ïwK‡q ev †m‡P gvQ AvniY • Kwl Rwg‡Z AwZgvÎvq †mP • wel c‡qv‡Mi gva¨‡g Kw•LZ PvI e¨e¯vcbvq iv¶‡m I AewÂZ gvQ `ixKiY • Kv‡i›U Rvjmn Ab¨vb¨ Abb‡gw`Z Rvj I dv‡`i e¨envi • gv‡Qi †ivM • we‡`kx cRwZi gv‡Qi cfve • Avenvlqv cwieZ‡bi d‡j evsjv‡`‡ki `w¶Y-ce I DËi-cwðgvs‡k cwbi Afve|	†QvU gvQ msi¶Y †KŠkj • Afqvkg cwZôv • gv‡Qi Avevm¯j Dbqb • Pv‡li gva¨‡g †QvU gvQ msi¶Y • wdm cvm I wdm ‡dÛwj KvVv‡gv wbgvY • †cvbv Drcv`b I cveb fwg‡Z gR`KiY • grm¨ msi¶Y AvBb 1950 ev¯evqb • mvgwRK m‡PZbZv ew× • †QvU gvQ welqK M‡elYv

mvÜ¨Kvjxb KvR

(†QvU `jxq Abkxjbx)

†`kxq ‡QvU cRwZi gv‡Qi Rxe^ewPÎ¨

G Abkxjbxi D‡Ïk¨ n‡"Q AskMnbKvixMY wbR wbR GjvKvq †`kxq cRwZi †QvU gv‡Qi Zwj Kv c¯Z Ki‡eb| Zv‡`i wbR wbR GjvKvq †Kvb †Kvb †QvU gvQ wK ai‡Yi ûgKxi m¤§wLb Zv wPwýZ Kivi aviYv cv‡eb|

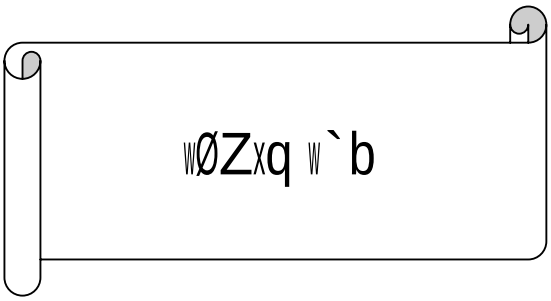
Kv‡Ri aviv

1| AskMnbKvix‡`i Pvi wU †QvU `‡j wef³ Ki‡eb| †QvU `j Av‡jvPbv K‡i wbR wbR GjvKvi †QvU gv‡Qi Zwj Kv ^Zix Ki‡eb|

2| cwk¶Yv_xMY Zv‡`i wbR wbR GjvKvi †QvU gv‡Qi cvPhZvi µgZwj Kv c¯Z Ki‡eb|

3| cvPhZvi µgZwj Kvi Ici wfwË K‡i †Kvb ‡Kvb †QvU gvQ ûgKxi m¤§wLb Zv wbi¡cb Ki‡eb|

4| `jMZ Dc¯vcbvi Rb¨ mg¯ KvR¸wj wdcPvU ^Zix Ki‡eb|


wØZxq w`b

Awa‡ekb cwiKíbv

w`b t 02 mKvj 08.00-09.00 †gqv`Kvj t 60 wgwbU

wk‡ivbvg	t	cbiv‡jvPbv, cwZfve I Dc¯vcbv
Afxô `j	t	grm¨ Awa`ßi I Ab¨vb¨ ms¯vi KgKZve›`
j¶¨	t	cwk¶vYv_x‡`i ce w`‡bi Kvhµ‡gi cbiv‡jvPbv I cwZfve Ges mvÜ¨Kvjxb KvR Dc¯vc‡bi m‡hvM K‡i †`qv hv‡Z Zviv c‡ei Av‡jvPbv ¯§iY Ki‡Z cv‡ib Ges fj µwU ms‡kvab K‡i Awa‡ek‡bi KvhKwiZv ew× Ki‡Z cv‡ib|
D‡Ïk¨	t	G Awa‡ekb †k‡l cwk¶Yv_xMY ce w`‡bi wk¶Y cbiv‡jvPbvi gva¨‡g fj µwU ms‡kvab K‡i HKg‡Z¨ †cŠQ‡Z m¶g n‡eb|

welqmwP	Av‡jvP¨ welq	cwk¶Y †KŠkj	mgq
fwgKv			5 wgwbU
	• ¯vMZg • PjwZ Awa‡ek‡bi mv‡_ ms‡hvM	e³Zv	
welqe¯			50 wgwbU
	cvZ¨wnK Rvbvj Dc¯vcb • cwk¶K ce w`‡bi wbewPZ cwk¶Yv_x‡K cvZ¨wnK Rvbvj †_‡K 5 wgwbU ejvi Rb¨ Ab‡iva Ki‡eb| c_g cwk¶Yv_x Zvi cvZ¨wnK Dc¯vcb †kl Ki‡j, Ab¨ †KD Avi †Kvb we‡kl wk¶Yxq welq Dc¯vcb Ki‡Z AvMnx wKbv Zv ck K‡i Rvb‡eb Ges †KD AvMnx _vK‡j Zv‡K Dc¯vcb Kivi m‡hvM w`‡eb| ce w`‡bi cbiv‡jvPbv • cwk¶K GKRb cwk¶Yv_x‡K mnvqK wn‡m‡e wbevPb Ki‡eb, whwb MZ w`‡bi mg¯ Kvhµg I wk¶Yxq welq¸‡jv c‡kvË‡ii gva¨‡g cbiv‡jvPbv Ki‡eb| mÜ¨Kvjx Kv‡Ri Dc¯vcb	e³Zv c‡kvËi	
mvi-ms‡¶c			5 wgwbU
	• cvZ¨wnK Rvbvj I mvÜ¨Kvjxb Kv‡Ri Dc¯vcb Ges cvZ¨wnK civ‡jvPbvq Ask Mn‡bi Rb¨ mKj‡K ab¨ev` Ávcb|	e³Zv I c‡kvËi	
cwk¶Y mnvqK mvgMx t †nvqvBU †evW, gvKvi, BZ¨vw`			

Awa‡ekb cwiKíbv

w`b t 02	mgq t 09.00-10.00	†gqv`Kvj t 60 wgwbU

wk‡ivbvg	t	†`kxq Rv‡Zi ‡QvU gvQ msi¶‡Y Afqvk‡gi fwgKv
Afxó `j	t	grm¨ Awa`ß‡ii KgKZve›`
j¶¨	t	G Awa‡ek‡b AskMnYKvix†`i‡K Afqvkg cwZôvi j¶¨ I D‡Ïk¨, Afqvk‡gi ‡kYx wefvM, we‡eP¨ welq, ¯vcb I e¨e¯vcbv, †QvU gv‡Qi †cvbv gR` Ges Afqvk‡gi cfve m¤ú‡K m®úó avivYv c`vb hv‡Z wewfb cvKwZK Rjvk‡q Afqvkg ¯vcb I e¨e¯vcbv m¤ú‡K grm¨Rxex‡`i‡K mn‡hwMZv Ki‡Z cv‡ib|
D‡Ïk¨	t	Awa‡ekb †k‡l cwk¶Yv_xMY †QvU gvQ msi¶‡Y Afqvk‡gi - • j¶¨ I D‡Ïk¨ m¤ú‡K AewnZ n‡Z cvi‡eb| • wewfb cKvi Afqvkg m¤ú‡K avivYv cv‡eb| • Afqvkg ¯vc‡bi we‡eP¨ welqmgn Rvb‡Z I ej‡Z cvi‡eb| • Afqvkg ¯vcb I e¨e¯vcbv Ki‡Z cvi‡eb| • Afqvk‡g †cvbv gR` Ki‡Z cvi‡eb| • Afqvk‡gi cfve m¤ú‡K m¯úó avivYv cv‡eb|

welqmwP	Av‡jvP¨ welq	cwk¶Y †KŠkj	mgq
fwgKv			3 wgwbU
	• AskMnYKvix‡`i ¯vMZ Rvbv‡bv • PjwZ Awa‡ek‡bi Dci Av‡jvKcvZ • DØ×KiY	e³Zv	
welqe¯			52 wgwbU
	• †QvU gvQ msi¶‡Y Afqvk‡gi fwgKv|	e³Zv I c‡kvËi	
mvi-ms‡¶c			5 wgwbU
	• gj welhmg‡ni cbiv‡jvPbv| • D‡Ïk¨ hvPvB • n¨vÛAvDU weZiY • cieZx Awa‡ek‡bi Dci Av‡jvKcvZ • ab¨ev` Ávcb|	c‡kvËi I e³Zv	
cwk¶Y mnvqK mvgMx t ‡evW, gvKvi, n¨vÛAvDU, wdcPvU, BZ¨vw`			

†`kxq Rv‡Zi ‡QvU gvQ msi¶‡Y Afqvk‡gi fwgKv

grm¨ Afqvkg n‡jv gv‡Qi wbivc` Avkq¯j| †`kxq Rv‡Zi †QvU gvQ msi¶Y I RjR Rxe‰ewPÎ¨ i¶vq grm¨ Afqvk‡gi fwgKv LeB ¸i“ZcY| evsjv‡`‡ki 260 cRwZi wgVv cwbi gvQ, 24 cRwZi wPswo, 12 cRwZi we‡`wk gvQmn †gvU 296 cRwZ gvQB n‡”Q Avgv‡`i Af¨šixb grm¨ m¤ú`| G‡`i g‡a¨ cvq 150 cRwZB n‡”Q †`kxq cRwZi †QvU gvQ| G ‡`‡ki gvb‡li Awg‡li Pwn`v ci‡Y Gme †QvU gv‡Qi Amvgvb¨ fwgKv i‡q‡Q| G Qvov nZ`wi` grm¨Rxex I ¶` Av‡qi gvbl GK mgq Lvj, wej, b`x-bvjv n‡Z Gme gvQ a‡i RxweKv wbevn Ki‡Zv| †QvU gvQ‡K cKwZi Awkev` wnmv‡e we‡ePbv Kiv nq| GK mgx¶vq †`kxq cRwZi †QvU gvQ‡K Mvgxb Rbc‡` Mixe gvb‡li wcq Lvevi Ges cwói cavb Drm wnmv‡e we‡ePbv Kiv n‡q‡Q (d¨vc-16, 1995)| wKš µgeagvb RbmsL¨vi Pv‡c gv‡Qi AwZ AvniY, Avevm¯j I cRbb †¶Î aŸsm, Rjvkq †m‡P gvQ AvniY, grm¨ m¤ú` webvkx miÄvgw`i e¨vcK e¨envi, gvÎwZwi³ KxUbvk‡Ki c‡qvM, KjKviLvbvi eR¨, BwÄb Pwjz †bŠhvb †_‡K wb®wkZ eR¨, AcwiKwíZ fv‡e Rjvkq fivU K‡i KjKviLvbv wbgvY, grm¨ m¤ú‡`i ¶wZKi cfve we‡ePbvq bv G‡b eb¨v wbqšY eva I †mP ¯vcbv wbgvY, gv‡Qi ‡ivM, eb DRvo BZ¨w` Kvi‡Y †QvU gv‡Qi Drcv`b w`b w`b nvm cv‡”Q| Gi d‡j A‡bK cRwZi Aw¯Z eZgv‡b ûgwKi g‡L | c‡e avivYv Kiv n‡Zv gvQ Pv‡l †QvU gvQ eo gv‡Qi gZ evoš I jvfRbK bq Ges †QvU gvQ eo gv‡Qi cwZ‡hvMx I ¶wZKi| ZLb †QvU gv‡Qi evRvi `il wQj Kg| Gme Kvi‡Y cK‡i i“B RvZxq gv‡Qi mv‡_ †`kxq †QvU gvQ Pvl Kivi c‡qvRbxqZv g‡b Kiv n‡Zv bv eis AewÂZ gvQ g‡b K‡i cK‡i wel c‡qv‡M G‡`i mg‡j webvk Kiv n‡Zv| wKš †`kxq †QvU gvQ wel‡q bvbwea ˆeÁvwbK M‡elYvj× djvd‡j †`kxq Rv‡Zi †QvU gvQ GKwU ¸i“ZcY welq wnmv‡e we‡ewPZ n‡q‡Q Ges w`b w`b G‡`i Pwn`v ew× cv‡”Q| Pv‡li gva¨‡g i“B RvZxq gv‡Qi Drcv`b ew× †c‡jl Mvgxb `wi` Rb‡Mvôxi cwói Pwn`v ci‡Y ‡QvU gv‡Qi Drcv`bl evov‡bv c‡qvRb| G Rb¨ †`kxq Rv‡Zi †QvU gvQ Pvl m¤cmvi†Yi cvkvcwk cvKwZK Rjvk‡q Zv‡`i Rxe‰ewPÎ¨ msi¶‡Y Afqvkg ¯vcb GKwU ¸i“ZcY I jvMmB †KŠkj|

grm¨ Afqvk‡gi j¶¨ I D‡Ïk¨

- grm¨ Afqvkg ¯vcb ev †NvlYvi gj j¶¨ n‡”Q, gv‡Qi wbivc` Avevm¯j wbwðZ Kiv;
- gv‡Qi Aeva cRbb wbwðZ Kiv I wePiY †¶Î msi¶Y I m¤cmviY Kiv;
- wbivc` Avkq mwói gva¨‡g wejßcvq ev wecb cRwZi gvQ msi¶Y Kiv;
- gv‡Qi ew×i Rb¨ chvß cvKwZK Lv`¨ wbwðZ Kiv;
- cvKwZK grm¨ gR` I m¤ú‡`i ew× NUv‡bv;
- gv‡Qi cRwZMZ I eskMZ ˆewPÎ¨ msi¶Y Kiv;
- gv‡Qi Avevm¯j Dbqb I msi¶Y Kiv|

grm¨ Afqvk‡gi cKvi‡f`

j¶¨ I D‡Ïk¨ Ges Rjvkq †f‡` Afqvkg wewfb cKvi n‡q _v‡K|

†gŠmgx Afqvkg

wbw`ó cRwZi gvQ eQ‡ii wbw`ó mg‡q wbw`ó cRbb †¶‡Î cRbb NUvq Ges wbw`ó ‡¶‡Î wePiY K‡i _v‡K| ZvB Aev‡a cRbb I wePi‡Yi j‡¶¨ †m wbw`ó GjvKv eQ‡ii wbw`ó mg‡q gv‡Qi Afqvkg wnmv‡e †NvlYv Kiv nq| ‡hgb- nvj`v b`xi g`bv NvU GjvKv, KvßvB †j‡Ki jsM` I wejvB Qwo GjvKv|

mvsevrmwiK Afqvkg

Rjvk‡qi †Kvb wbw`ó GjvKvq wbw`ó eQ‡ii Rb¨ gvQ aiv wbwl× Kiv n‡j Zv‡K mvsevrmwiK Afqvkg ejv nq| enËi wm‡jU AÂ‡j I wK‡kvi MÄ †Rjvq A‡bK nvl‡ii †Kvb †Kvb we‡j cvBj wdkvix K‡i 2-3 eQi Aši Aši gvQ aiv nq| G cvBj wdkvix‡K cKvivš‡i mvsevrmwiK Afqvkg ejv †h‡Z cv‡i|

`xN †gqv`x ev ¯vqx Afqvkg

‡Kvb †Kvb AÂ‡j †Kvb b`x ev we‡ji m¤úY As‡k ev Gi GKwU mwbw`ó GjvKv `xN †gqv‡` ev ¯vqx fv‡e gvQ aiv wbwl× Kiv nq| Gi(c GjvKv‡K `xN †gqv`x ev ¯vqx Afqvkg ejv n‡q _v‡K| grm¨ Awa`ß‡ii 4_ grm¨ cK‡íi gva¨‡g A‡bK¸‡jv Afqvkg ^Zix Kiv n‡q‡Q, Zvi g‡a¨ †gNbv eK-2 Afqvkg, civZb e¤ŝcÎ b` Afqvkg, Awoqvj Lv b`x Afqvkg D‡jL‡hvM¨|

grm¨ Afqvkg ¯vc‡b we‡eP¨ welqmgn

- gvQ I Ab¨vb¨ RjR Rx‡ei fvj Avevm¯j Z_v ¯v"Q›`gq cwi‡ek;
- mviv eQi cwb _v‡K Ggb Rjvkq ev Rjvk‡qi Ask we‡kl;
- Rjvk‡q wewfb cRwZi gv‡Qi Dcw¯wZ;
- Rjvk‡q j¶¨ ev gL¨ cRwZi cvPhZv;
- Rjvk‡q wejßcvq cRwZi cbtAwefv‡ei m¤vebv;
- Rjvkqwu Kg Rbemwz I Kg KgZrci ¯v‡b nlqv DwPZ;
- Rjvkqwu `lYg³ GjvKvq n‡Z n‡e|

grm¨ Afqvkg ¯vcb I e¨e¯vcbv

grm¨ Afqvkg ¯vcb Ki‡Z n‡j m‡iRwg‡b ¯vb cwi`kb ceK cwiKíbv Mnb Ki‡Z n‡e Ges †m †gvZv‡eK e¨e¯v Mnb c‡qvRb| b`x wbevmx gv‡Qi Rb¨ b`x‡Z Ges wej wbevmx gv‡Qi Rb¨ we‡j Afqvkg ¯vcb Kiv DwPZ| ¯vbxq RbMY I grm¨Rxex‡`i AwfÁZv we‡ePbv K‡i Zv‡`i mv‡_ Av‡jvPbvµ‡g Afqvk‡gi ¯vb I AvKvi wVK Kiv Avek¨K| mvaviYZt b`x A_ev Ab¨ †Kvb Rjvk‡qi Ggb As‡k Afqvkg cwZôv Ki‡Z n‡e, †hLv‡b wbw`ó tgŝm‡g A_ev mviv eQi gvQ aiv eÜ ivLv m¤e| b`-b`x ev we‡ji Ggb †Kvb Mfxi Ask ev c‡KU wbevPb Ki‡Z n‡e †hLv‡b gv‡Qi Avbv‡Mvbv ‡ewk, Zjbvgj K fv‡e †mvZ Kg, cwj Rgvi m¤vebv Kg, †bŝ PjvP‡j weN NU‡e bv Ges RbMY Øviv ¶wZM¯ n‡e bv| Rjvk‡qi KZ fvM GjvKvq Afqvkg n‡e Zv mwbw`ó fv‡e ejv bv ‡M‡j grm¨ Awa`ß‡ii wewfb cK‡íi AwfÁZvi Av‡jv‡K ejv hvq, ï® ‡gŝm‡g mswkó Rjvk‡qi AvqZ‡bi kZKiv 50 fvM GjvKv‡K Afqvkg wnmv‡e ivLv †h‡Z cv‡i| Z‡e AvqZb wbaviY Kv‡j Rjvkq mswkó grm¨Rxex‡`i Rxeb-RxweKvi welqwU we‡ePbvq Avb‡Z n‡e| cvebfwg I wej GjvKvq 400-500 eMwgUv‡ii †Wvevq Afqvkg ^Zwi K‡il mdj cvlqv †M‡Q| Afqvkg ¯vc‡bi wbwgË wbewPZ GjvKvi mxgvbv wbaviY K‡i Pviw`‡K jvj cZvKv w`‡q ivL‡Z n‡e Ges Gi wfZ‡i KvVv ¯vcb Ki‡Z n‡e|

grm¨ Afqvk‡gi djcm e¨e¯vcbvi Rb¨ ¯vbxq mdj‡fvMx Rb‡Mvôx I grm¨Rxexi ga¨ n‡Z Afqvkg e¨e¯vcbv KwgwU MVb Kiv †h‡Z cv‡i| hv cieZx‡Z grm¨ mgvRwfwËK msMVb (FCBO[2]) wnmv‡e we‡ewPZ n‡e| Afqvkg e¨e¯vcbv Kvhµ‡gi ¯vqxZkxjZvi j‡¶¨ G msMV‡bi GKwU Ab‡gw`Z MVbZš _vK‡e Ges msMVbwU miKv‡ii wbeÜb ms¯v KZK wbqwšZ n‡e| msMV‡bi I Afqvkg e¨e¯vcbv Kvhµg cwiPvjbvi mwea‡_ Afqvkg wbKU¯ ¯v‡b GKwU KwgDwbwU-Kvg-†Uwbs †m›Uvi ¯vcb Kiv †h‡Z cv‡i| G Rb¨ wKQ wbqgbxwZ wbaviY Ki‡Z n‡e| †hgb- jvj cZvKv wPwýZ mxgvbv n‡Z 200 wgUvi `‡i gvQ aiv, ^ekvL ‡_‡K Avlvp chš gvQ bv aiv, wbw`ó dv‡mi Rvj e¨envi, Afqvk‡g cvnvov`vi wb‡qvM, wbqg f½Kvixi wei"‡× e¨e¯v Mnb Kiv, ¯vbxq ckvmb I RbcwZwbwai ms‡M †hvMmÎ ¯vcb Ges c‡qvRbxq Z_¨mn wej †evW ¯vcb| c‡qvR‡b wKQw`b ci ci Afqvkg ms¯vi mvab Ki‡Z n‡e|

Afqvk‡g †`kxq Rv‡Zi ‡QvU gv‡Qi †cvbv gR`KiY

‡`‡ki Af¨šixY Rjvkqmg‡n †`kxq Rv‡Zi †QvU gv‡Qi µgnvmgvb Ae¯vi BwZevPK cwieZb I Rxe‰ewPÎ¨ mgw×Ki‡Yi j‡¶¨ ¯wcZ Afqvk‡g chvqµ‡g †`kxq †QvU gv‡Qi †cvbv/gv gvQ gR` Kiv †h‡Z cv‡i| G †¶‡Î AwZwecb I msKUvcb †QvU gv‡Qi c‡Ywu`Z cRb‡bi gva¨‡g Drcw`Z †cvbv ev gv gvQ grm¨ Afqvk‡g Aeg³ Kvhµg‡K AMwaKvi †`qv DwPZ| D‡jL¨ †h, eZgv‡b A‡bK †QvU gvQ †hgb- ^K, wks, gv¸i, ¸jkv, cve`v, †gwb, evUv, Zviv evBg BZ¨w` gv‡Qi c‡Ywu`Z cRb‡bi gva¨‡g †cvbv Drcv`b n‡"Q|

[2] Fisheries Community Based Organization.

Afqv‡gi cfve

Afqvkg mwói d‡j Afqvkg GjvKvq cRb‡bi Rb¨ cPi cRbb¶g gvQ Ges †cvbvmn we¯fb cRwZi gv‡Qi mgvnvi N‡U| Gi cfv‡e mswkó Rjv‡qi ms‡M h³ Ab¨vb¨ As‡k Ges cvkeZx Rjvk‡ql gv‡Qi Drcv`b Ges cvPhZv e¯× cvq| grm¨ Awa`ß‡ii 4_ grm¨ cK‡íi AvIZvq ¯wcZ Afqvk‡gi ga¨ n‡Z 27wU Rjvk‡qi mdj‡fvM‡`i wbKU n‡Z msMnxZ djvdj we‡klY K‡i †`Lv hvq gv‡Qi Drcv`b c‡ei Zjbvq kZKviv 15 †_‡K 200 fvM chš e¯× †c‡q‡Q| Afqvkg ¯vc‡bi 2-3 eQ‡ii g‡a¨ Gme Rjvk‡qi gv‡Qi Drcv`b cwZ †n±‡i 120 †KwR n‡Z e¯× †c‡q 239.4 †KwR‡Z EbxZ n‡q‡Q| 27wU Rjvk‡qi g‡a¨ 23wU Rjvk‡q gv‡Qi cRwZ msL¨v kZKiv 85 fvM e¯× †c‡q‡Q Ges ¯vbxq fv‡e wejßcvq 24wU cRwZi gv‡Qi cbtAwefve N‡U‡Q| G Qvov mswkó Rjvkq¸‡jv‡Z c‡e LeB Kg cvIqv †hZ Ggb wecb 23wU cRwZ gv‡Qi cvPhZv e¯× †c‡q‡Q| m†evcwi grm¨Rxex‡`i Avq we¯fb Rjvk‡q we¯fb nv‡i e¯× †c‡q‡Q| G Qvov mgvRwfwËK grm¨ e¨e¯vcbv cKí, gvP (MACH[3]) cKí I bZb Rjgnvj bxwZgvjvf³ Db¤³ I e× Rjgnv‡j grm¨ m¤ú` Dbqb cK‡íi Abi¡c djvdj cvIqv †M‡Q|

Avgv‡`i †`‡k eZgv‡b we`¨gvb gv‡Qi cRwZmn RjR Rxe‰ewPÎ¨ msi¶Y Kivi Rb¨ Zwor e¨e¯v Mnb bv Kiv n‡j RjR Rxe‰ewPÎ¨, cwi‡ek I grm¨Rxwe‡`i Av_-mvgwRK Ae¯vi wechq NUvi mgn m¤vebv i‡q‡Q| ZvQvov Mvgxb `wi` Rb‡MvôxiI cwónxbZv Pig AvKvi avivY Ki‡e| ZvB GLbB Avgv‡`i m‡PZb nIqv `iKvi Ges grm¨ m¤ú‡`i Drcv`b e¯× I Rxe‰ewPÎ¨ msi¶‡Yi ¯v‡_ †`‡ki we¯fb b`-b`x, nvIi-evIo, wej, cvebfwg, DcKjxq AÂ‡ji Dch³ ¯v‡b mswkó Rb‡MvôxicZ¨¶ Ask Mn‡bi gva¨‡g Afqvkg ¯vcb Kiv AZ¨vek¨K n‡q c‡o‡Q| ckvmbmn RbcwZwbwa, GbwRI, †cm I B‡jKUwbK wgwWqvi KgxMY mw`"Qv wb‡q GwM‡q Avm‡j memvavi‡Yi gv‡S G wel‡q MYm‡PZbZv mwó n‡e|

NUbv cevnt Pi j²xi grm¨ Afqvkg

Kw_Z Av‡Q, †gNbv b`xi †kl cv‡š nVvr GKw`b aiv c‡o GK`j WvKvZ| Zv †_‡K †gNbvi G kvLv b`xUi bvg nq WvKwZqv| GK mgq gv‡Q wQj fici| GKw`‡K RbmsL¨vi AwaK¨ I Ab¨w`‡K RjR cwi‡e‡ki gvivZ¥K Ae¶‡q w`b w`b Kg‡Z _v‡K †`kxq cRwZi †QvU gvQ| nZ `wi` grm¨Rxexiv n‡q c‡o w`‡knviv| G mgq grm¨ Awa`ß‡ii ÔÔAfqvkg ¯vc‡bi evZvÕÕ grm¨Rxex‡`i †`q bZb K‡i †e‡P _vKvi †ciYv| mbwU wQj 2001, PZ_ grm¨ cK‡íi cô‡cvIKZvq WvKwZqv b`xi DËivs‡k ¯wcZ nq ÔÔgrm¨ AfqvkgÕÕ| µ‡g evo‡Z _v‡K gv‡Qi cvPhZv I Drcv`b| hvi mdj †`‡L bZb K‡i Afqvkg ¯vc‡b DØ× nq j²xci †Rjvi ivqc‡ii Pij²x Mv‡gi `w¶bvs‡ki grm¨Rxexiv| M‡o †Zv‡j 120 m`m¨ wewkó ÒPieskx eûgLx mgvR Kj¨vY mwgwZÓ| ï i" nq 50 †n±i RjvqvZ‡bi g‡a¨ Afqvkg ¯vc‡bi Kvhµg|

w`bwU wQj 16 †de"qvix 2008| grm¨ Awa`ß‡ii KgKZvMY ÔÔ‡`kxq cRwZi †QvU gvQ PvI e¨e¯vcbv I msi¶Y welqKÕÕ cwk¶Y gwWDj cYqb Uxg nwRi nb grm¨ msi¶‡Y Afqvk‡gi fwgKv Rvbvi Rb¨| K_v nq, mwgwZi mfvcwZmn Ab¨vb¨ m`m¨‡`i mv‡_| Zv‡`i g‡Z, c‡e †hLv‡b wQj bv †kvj, †evqvj, UwK, cve`v, ^K, wks, gv¸i, dwj, evNvBi, †gwb, gjv, cwU, †Usiv, Lwjkvmn AmsL¨ cRwZi †`kxq gv‡Qi cvPhZv| nwi‡q †h‡Z e‡mwQj ev½vjxi AZxZ HwZn¨ I ¯KxqZv| GLb †mLv‡b grm¨ AfqvkgwU mk•Ljfv‡e e¨e¯vcbv K‡i grm¨Rxexiv cv‡"Qb AwaK gvQ I nwi‡q hvIqv cRwZi ‰ewPÎ¨Zv| msiw¶Z n‡"Q Rxe‰ewPÎ¨, NU‡Q mwgwZi m`m¨‡`i A_‰bwZK Dbqb| Z‡e Zv‡`i g‡Z, MvW †mW wbgvb, Afqvkg †givgZ, BwÄb †bŠKv µq BZ¨w` Kvhµg m¤úv`‡b miKv‡ii mn‡hwMZv †c‡j grm¨ Afqvkg Kvhµ‡g evo‡e Av‡iv MwZkxjZv, Avm‡e A_‰bwZK ¯"QjZv| ZvB GLb Pij²xi mKj RbM‡Yi g‡L GKB K_v-

ÔÔ Afqvk‡g _vK‡j gvQ
gvQ cvIqv hvq evi gvmÕÕ

[3] Management of Aquatic Resourses Through Community Husbandary.

wdcPvU cwiKíbv

†`kxq Rv‡Zi ‡QvU gvQ msi¶‡Y Afqvk‡gi fwgKv	grm¨ Afqvk‡gi j¶¨ I D‡Ïk¨ • grm¨ Afqvkg ¯vcb ev †NvlYvi gj j¶¨ n‡"Q, gv‡Qi wbivc` Avevm¯j wbwðZ Kiv; • gv‡Qi Aeva cRbb wbwðZ Kiv, wePiY †¶Î msi¶Y I m¤cmviY Kiv; • wbivc` Avkq mwói gva¨‡g wejßcvq ev wecb cRwZi gvQ msi¶Y Kiv; • gv‡Qi ew×i Rb¨ chvß cvKwZK Lv`¨ wbwðZ Kiv; • cvKwZK grm¨ gR` I m¤ú‡`i ew× NUv‡bv; • gv‡Qi cRwZMZ I eskMZ ˆewPÎ¨ msi¶Y Kiv; • gv‡Qi Avevm¯j Dbqb I msi¶Y Kiv|
msÁv grm¨ Afqvkg n‡jv gv‡Qi wbivc` Avkq¯j| ‡`kxq Rv‡Zi ‡QvU gvQ msi¶Y I RjR Rxe‰ewPÎ¨ i¶vq grm¨ Afqvk‡gi fwgKv LeB ¸i"ZcY|	grm¨ Afqvkg ¯vc‡b we‡eP¨ welqmgn • gvQ I Ab¨vb¨ RjR Rx‡ei fvj Avevm¯j Z_v ¯v"Q›`gq cwi‡ek; • mviv eQi cwb _v‡K Ggb Rjvkq ev Rjvk‡qi Ask we‡kl wbevPb; • Rjvk‡q wewfb cRwZi gv‡Qi Dcw¯wZ; • Rjvk‡q j¶¨ ev gL¨ cRwZi cvPhZv; • Rjvk‡q wejßcvq cRwZi Dcw¯wZ cbtAwefv‡ei m¤vebv; • RjvkqwU Kg RbemwZ I Kg KgZrci ¯v‡b nlqv DwPZ; • RjvkqwU `lYg³ GjvKvq n‡Z n‡e|
grm¨ Afqvk‡gi cKvi‡f` • ‡gŠmgx Afqvkg • mvsevrmwiK Afqvkg • `xN †gqv`x ev ¯vqx Afqvkg	grm¨ Afqvk‡gi cfve • Afqvkg GjvKvq cRbb¶g, †cvbv gvQ I Ab¨vb¨ gv‡Qi mgvnvi N‡U; • cvkeZx Rjvk‡qI gv‡Qi Drcv`b Ges cvPhZv ew× cvq; • wejßcvq cRwZi gvQ I Ab¨vb¨ RjR cvYxi cbtAwefve N‡U; • RjR Rxe‰ewPÎ¨ msiw¶Z nq; • grm¨Rwe‡`i Avq ew× cvq|

Awa‡ekb cwiKíbv

w`b t 02 mgq t 10:00-11:00 †gqv`Kvj t 60 wgwbU

wk‡ivbvg	t	†QvU gv‡Qi cRbb I †cvbv Drcv`b †KŠkj
Afxó `j	t	grm¨ Awa`ß‡ii KgKZve›`
j¶¨	t	cwk¶Yv_x‡`i †`kxq ‡QvU gv‡Qi cRbb I †cvb Drcv`b ‡KŠkj m¤ú‡K we¯wiZ avivYv †`qv n‡e hv‡Z Zviv AwRZ Ávb Kv‡R jwM‡q †QvU gv‡Qi cRbb I ¸YMY gvbm¤úb †cvbv Drcv`b †KŠkj AvqZ Ki‡Z cvi‡eb|
D‡Ïk¨	t	G Awa‡ekb †k‡l cwk¶Yv_xMY - • †QvU gvQmg‡ni cRbb FZ m¤ú‡K ej‡Z cvi‡eb| • n¨vPwi I cvKwZK Drm n‡Z †cvbv Drcv`b †KŠkj e¨vLv¨v Ki‡Z cvi‡eb| • †cvbv cwZcvjb m¤ú‡K ej‡Z cvi‡eb|

welqmwP	Av‡jvP¨ welq	†KŠkj	mgq
fwgKv			4 wgwbU
	• ¯vMZg • ceeZx Awa‡ek‡bi mv‡_ ms‡hvM¯vcb • eZgvb Awa‡ek‡bi Dci Av‡jvKcwZ • D‡Ïk¨ e¨vL¨vKiY • DØ×KiY	e³Zv	
welqe¯			50 wgwbU
	• ‡QvU gv‡Qi cRbb m¤vebv, cRbb FZ I wWg avivY ¶gZvi Zjbvgjk wPÎ • KwZcq †QvU gv‡Qi cRbb †KŠkj 1| ^K gv‡Qi cRbb I †cvbv Drcv`b †KŠkj - cvKwZK cRbb - c‡Ywu`Z cRbb: (¯x) 6-8 wgMv wcwR/†KwR (ci“l) 2-3 wgMv wcwR/†KwR - †cvbv cwZcvjb 2| gv¸i gv‡Qi cRbb I †cvbv Drcv`b †KŠkj - cvKwZK cRbb - c‡Ywu`Z cRbb: (¯x) 2 wgMv I fwcg/mwcg ev 80-110 wgMv wcwR/†KwR (ci“l) 1 wgMv I fwcg/mwcg ev 30-40 wgMv wcwR/†KwR - †cvbv cwZcvjb 3| wks gv‡Qi cRbb I †cvbv Drcv`b †KŠkj - cvKwZK cRbb - c‡Ywu`Z cRbb: (¯x) 2 wgMv I fwcg/mwcg ev 60-70 wgMv wcwR/†KwR (ci“l) 1 wgMv I fwcg/mwcg ev 30-35 wgMv wcwR/†KwR - †cvbv cwZcvjb	e³Zv I c‡kvËi	

welqmwP	Av‡jvP¨ welq	†KŠkj	mgq
	4| evUv gv‡Qi cRbb I †cvbv Drcv`b †KŠkj - cvKwZK cRbb - c‡Ywa`Z cRbb: (¯x) 4-6 wgMv wcwR/†KwR (ci"l) 1-2 wgMv wcwR/†KwR - †cvbv cwZcvjb 5| t`kx micwU gv‡Qi cRbb I †cvbv Drcv`b †KŠkj cvKwZK cRbb - c‡Ywa`Z cRbb: (¯x) 6-7 wgMv wcwR/†KwR (ci"l) 2 wgMv wcwR/†KwR - †cvbv cwZcvjb  6| cve`v I ¸jkv gv‡Qi cRbb I †cvbv Drcv`b †KŠkj - cvKwZK cRbb - c‡Ywa`Z cRbb: cRbb Kvhµg: cve`v ¸jkv Bb‡RKkb c‡qvM: 2 evi 1 evi ni‡gvb gvÎv: 1g †WvR ¯x: 3-4 wgM wcwR/†KwR ¯x: 8-12 wgM wcwR/†KwR ci"l: 4-6 wgM wcwR/†KwR ci"l: 4-6 wgM wcwR/†KwR 2q †WvR: 6 N›Uv ci ¯x: 12-16 wgM wcwR/†KwR ci"l: 6-8 wgM wcwR/†KwR - †cvbv cwZcvjb 6| Pv‡li cK‡i gjv I cwU gv‡Qi cvKwZK cRbb - e"W msMn - e"W cwienb I gR`KiY - cvKwZK fv‡e esk ewa×‡Z KiYxq		
mvi ms‡¶c			6 wgwbU
	• gj welqmgn ms‡¶‡c cbiv‡jvPbv • c‡kvË‡ii gva¨‡g D‡Ïk¨ hvPvB • 3. cieZx Awa‡ek‡bi mv‡_ ms‡hvM ¯vcb	c‡kvËi	
cwk¶Y mnvqK mvgMx t gvKvi, wdc PvU, n¨vÛ AvDU, BZ¨vw`|			

†QvU gv‡Qi cRbb I †cvbv Drcv`b †KŠkj

µgeagvb Rb‡MvôxiAwaK¨, gv‡Qi Avevm¯j aŸsm, cvKwZK wechq I Ab¨vb¨ bvbwea Kvi‡Y Rjvkq¸‡jv‡Z gv‡Qi cvc¨Zv nvm cvIqvi Kvi‡Y †QvU eo A‡bK gvQB cvKwZK cwie‡k n‡Z nwi‡q hvIqvi c‡_| GK mg‡q MvgxbRb‡MvôxiLv`¨ ZwjKvq gjv, †Xjv, Pwcjv, †gwb, Pv›`v, †Usiv, ^K, wks, gv¸i, evZwmmn †h mKj †QvU gvQ wQj cwói Ab¨Zg Drm¨, †m mKj gvQB AvR `®cvc¨| hM-cwiµgvq abx-Mixe mKj gvb‡li Lv`¨ ZwjKvq †e‡o‡Q G mKj gv‡Qi e¨vcK Pwn`v| D”P cwógvb, ¯v‡`i wfbZv, Ilwa ¸Yv¸Y G mKj gvQ‡K GKw`‡K †hgb K‡i‡Q Rbwcq Ab¨w`‡K K‡iQ `vgx Ges ewo‡q‡Q Zv‡`i K`i| GLb abx-Mixe mKj gvb‡li Kv‡QB G mKj †QvU gvQ mgvbfv‡e mgv`Z| Ab¨w`‡K, Mv‡gi mvaviY Mixe gvbl hv‡`i c‡¶ †ekx A_ LiP K‡i eo gvQ †Kbv m¤e nqbv, Aí Li‡P wb‡Ri cK‡i mn‡RB KvcRvZxq gv‡Qi mv‡_ gjv, cwU BZ¨w` †QvU gvQ PvI K‡i cwievwiK Pwn`v †gUv‡Z cv‡i| GRb¨ c‡qvRb †QvU gv‡Qi cRbb I †cvbv Drcv`‡bi Ici wewfb Kjv‡KŠk‡ji Dbqb|

cRbb

cRbb nj RbZv/Rx‡ei ea‡bi RbMZ ¶gZv| cRbb Øviv Rxe bZb Rx‡ei ev mšv‡bi Rb¥ †`q| G me bZb Rx‡ei Rb¥ cme, wWg d‡U ev wefvRb Øviv n‡Z cv‡i| GK K_vq, †h †Kvb c×wZ‡Z civZb/cwic° Rxe †_‡K bZb Rx‡ei Rb¥ nIqvUvB nj cRbb| grm¨ cRb‡bi †¶‡Î mvaviYZt wWgd‡U bZb Rx‡ei Rb¥ nq| gvQ‡K cvKwZK I c‡Yw`Z Dcv‡q cRbb Kiv hvq|

cvKwZK cRb‡b gvQ cvKwZK cwi‡e‡k (†hgb b`-b`x‡Z) †¯”Qvq c‡bw`Z n‡q cRbb K‡i _v‡K| Avi c‡Yw`Z cRb‡b KwÎgfv‡e n¨vPvix‡Z gvQ‡K ni‡gvb ev D‡ËRK e¨envi K‡i cRbb Kiv‡bv nq|

†QvU gv‡Qi cRbb

Af¨šixY g³ Rjvkq †hgb b`-b`x, Lvj-wej, nvIi-evIo, cvebfwg BZ¨w`B gjZ †QvU gv‡Qi wePiY †¶Î| D³ wePiY‡¶‡ÎB mvaviYZt †QvU gvQ cvKwZKfv‡e cRbb K‡i _v‡K| Z‡e †QvU gv‡Qi cRbb m¤úv`b I Drcv`b ew×‡Z cvebfwg me‡P‡q ¸i“ZcY fwgKv cvjb K‡i| evsjv‡`‡ki AwaKvsk GjvKv‡ZB cvebfwg we`¨gvb| elv †gŠm‡g me Rjvkq A_vr b`x-Lvj-cvebfwg wg‡jwg‡k GKvKvi n‡q hvq| gv‡Qi cvKwZK cRbb I RxebPµ m¤úv`‡b G ai‡Yi cwi‡ek ¸i“ZcY fwgKv iv‡L|

cvKwZKfv‡e †QvU gvQ mvaviYZt Lvj-wej, cvebfwg, nvIi-evIo, cKi-w`Nx, †Wvev-bvjv I wbgw¾Z avb †¶Z BZ¨w`¯v‡b cRbb K‡i _v‡K| †h mg¯ ¯v‡b elvi c_g ewói cwb R‡g, wKQ wKQ †QvU gvQ †m mKj ¯v‡b cRbb K‡i| G‡`i g‡a¨ Avevi A‡bK †QvU gvQ i‡q‡Q Awfcvqx (migratory) ¯fv‡ei| Zviv cRbb Kivi Rb¨ †gŠm‡g Ab¨Î Awfcvqb K‡i|

b`x I cvebfwgi FZwfwËK cwieZb †QvU gv‡Qi Lv`¨, cRbb Ges PjvPj ev Awfcvq‡b cfve we¯vi K‡i| elvi ïi“‡Z (Gwcj-Rb) Ges fiv elvq (RjvB) b`xi mv‡_ Lvj-we‡ji ms‡hvM ¯wcZ nq Ges G mgq A‡bK †QvU gvQ Awfcvqb K‡i cRbb K‡i _v‡K| eZgv‡b RjR Avevm¯‡ji Ae¶‡qi Kvi‡Y AwaKvsk †QvU gv‡Qi PjvPj c_ wewNZ n‡”Q d‡j †QvU gv‡Qi Avevm¯j msKwPZ n‡q Avm‡Q| djk“wZ‡Z Lv`¨ I cRbb evavM¯ n‡q g³ Rjvk‡q †QvU gv‡Qi Drcv`b I Rxe‰ewPÎ¨Zv e¨vcKfv‡e nvm cv‡”Q|

†QvU gv‡Qi Rxeb P‡µi ¯wqZKvj LeB Kg| G‡`i AwaKvskB elv FZ‡Z GKwaKevi cRbb K‡i _v‡K| Mx®§Kv‡j AwaK ewói ci ciB †QvU gvQ †mv‡Zi wecix‡Z Awfcvqb K‡iÑ hv Zv‡`i‡K cRb‡b mnvqZv K‡i| Gici gvQ¸wj wewfb Rjvk‡q Qwo‡q c‡o Ges †QvU †cvbv cvKwZK jvjb‡¶‡Î Lv`¨ MnY K‡i eo n‡Z _v‡K|

mviwYt wewfb cRwZi †QvU gv‡Qi cRbb FZ Ges wWg avivY¶gZvi Zjbvgjk wPÎ

cRwZ	cRbbKvj	wWg avivY ¶gZv	M‡elK
gjv	†g-A‡±vei (mevbKj: AvM÷)	3,596±150 (75-80 wgwg, gvQ)	Parveen 1984 Afroze & Hossain 1983, 1990
cwU	‡g-A‡±vei (`BwU cRbb FZ)	1,400 - 1,900	Mustafa 1991
gjv	‡g-A‡±vei	1,020 - 6,800	Kohinoor 2000
cwU		3,260 - 31,280	
†Pjv		920 - 2,830	
Lwjkv	gvP-Gwcj	1,580 - 2,680	Banu *et al*. 1984, Mustafa 1991
`viwKbv	gvP-RjvB (mevbKj: Gwcj-†g)	390 - 2,400	Dewan 1973, Parveen *et al*. 1993
Pwcjv	Gwcj-AvM÷	25,200 - 154,500	Kabir *et al*. 1998
†Xjv	†g-RjvB	1,050 - 9,360	Islam 2000
wks	Rb-RjvB	8,000-10,000 (40-70 Mvg IR‡bi gvQ)	Mollah *et al*. 2005
gv¸i	Rb-RjvB	7,000-8,000 (80-100 Mvg IR‡bi gvQ)	Mollah *et al*. 2005
‰K	Rb-RjvB	6,000-8,000 (80-100 Mvg IR‡bi gvQ)	Mollah *et al*. 2005
cve`v	‡g-AvM÷ (mevbKj: Rb-RjvB)	11,000-20,000 (40-100 Mvg IR‡bi gvQ)	Hossain & Kohinoor 2005
¸jkv	Rb-†m‡Þ¤i (mevbKj: RjvB-AvM÷)	6,000-22,000 (28-52 Mvg IR‡bi gvQ)	Hossain & Kohinoor 2005

KwZcq †QvU gv‡Qi cRbb †KŠkj

AZx‡Z wewfb ai‡Yi cvKwZK Rjvkq †hgb Lvj-wej, cvebfwg, avb †¶Z, nvIi-evIo BZ¨vw`‡Z ‡QvU gvQ cPi cwigv‡Y cvIqv †hZ Ges G ai‡Yi Avevm¯‡jB AwaKvsk †QvU gvQ e¨vcK nv‡i cRbb Ki‡Zv| wKš Kv‡ji weeZ‡b cwi‡ekMZ wechq I gbl¨mó bvbwea Kvi‡Y G mKj gv‡Qi cRbb I PviY †¶Î msKwPZ nIqvq G‡`i cvPhZv e¨vcKfv‡e nvm †c‡q‡Q| ZvB A_‰bwZK I cwóMZ ¸i“Zm¤úb KwZcq †QvU gv‡Qi KwÎg cRb‡bi Dci we‡kl bRi †`qv n‡q‡Q| B‡Zvg‡a¨ miKvix I †emiKvix chv‡q KwÎg cRb‡bi gva¨‡g †ek wKQ †QvU gv‡Qi c‡Yw`Z KwÎg cRbb I †cvbv Drcv`b †KŠkj D™wweZ n‡q‡Q|

wb‡æ KwZcq †QvU gv‡Qi cRbb I †cvbv Drcv`b †KŠkj ms‡¶‡c Av‡jvPZ n‡jv t

1| ‰K gv‡Qi cRbb I †cvbv Drcv`b †KŠkj

‰K gvQ mvavivYZ: Lvj-wej, nvIi-evIo, cKi-w`Nx, †Wvev-bvjv Ges wbgw¾Z avb †¶‡Z †`L‡Z cvIqv hvq| G gvQ¸‡jv Avowjqv RvZxq Dw™` ‡hgb Kjwg, †n‡jÂv Ges RjR Ab¨vb¨ †Svc-Svo I Wvj-cvjv Aa¨wIZ Rjvk‡q ¯v"Q‡›` emevm Ki‡Z cQ›` K‡i| ‰K gvQ M‡Z wbgw¾Z Mv‡Qi ¸woi Zjvq ev mo‡½ emevm K‡i Ges †mvZnxb Ave× cwb‡Z †ewk †`L‡Z cvIqv hvq|

cvKwZK cRbb

- ˆK gvQ c_g eQ‡iB cRbb¶g nq, m‡ev”P 17 †mwg. j¤v nq Ges eQ‡i GKevi cRbb K‡i|
- ˆK gv‡Qi mevbKj cRbbKvj Gwcj-RjvB gvm| Z‡e gvP †_‡K †m‡Þ¤i gvm chš’ cRbb K‡i _v‡K|
- cRbb ïi“i c‡e elvi ewó bvg‡jB G‡`i‡K cRb‡bi Rb¨ Awfcvqb Ki‡Z †`Lv hvq Ges Awfcvqb K‡i Giv avb †¶Z, †Wvev, cKi-bvjv, Lvj-wej BZ¨w` ¯v‡b P‡j hvq| ‰K gvQ mvaviYZ †h RvqMvq emevm K‡i †m RvqMvq cRbb K‡i bv| ZvB cRbb Awfcvq‡bi gva¨‡g ¯vb e`j K‡i †bq| AZtci bZb ¯v‡b †Svc-Svo RvZxq Dw™‡`i g‡a¨ Avkq wb‡q wWg Qv‡o|
- ‰K gv‡Qi wWg fvmgvb| ZvcgvÎvi Dci wbfi K‡i 18-24 NÈvi g‡a¨ wbwl³ wWg d‡U ev”Pv †ei nq|
- ev”Pv/†iY †cvbvi Kmg_wj 2/3 w`‡bi g‡a¨ µgvš‡q †kl n‡j cvKwZK Lv`¨ MnY ïi“ K‡i|

c‡Yw`Z cRbb

ni‡gvb Bb‡RKk‡bi gva¨‡g KwÎg Dcv‡ql ‰K gv‡Qi cRbb Kiv‡bv hvq| eZgv‡b A‡bK †emiKvix n¨vPvix‡Z ‰K gv‡Qi KwÎg cRbb I †cvbv Drcv`‡b mdjZv jvf K‡i‡Q| ci“l ˆK gv‡Qi Zjbvq ¯x ˆK gvQ AvKv‡i wKQUv eo nq| GKwU 80-100 Mvg IR‡bi ˆK gv‡Qi wWg avivY ¶gZv 6,000- 8,000 Gi g‡a¨ n‡q _v‡K|

- e“W cwZcvjb t DbZ gv‡bi †cvbv Drcv`‡bi Rb¨ cRbb FZi 3-4 gvm Av‡M †_‡KB cvKwZK/Dch³ Drm †_‡K e“W gvQ msMn K‡i gR` cK‡i ‡i‡L 30-35% Awgl mg× Lvevi gv‡Qi †`n IR‡bi 3-5% nv‡i c‡qvM Ki‡Z n‡e| cvkvcwk cvKwZK Drcv`bkxjZv ew×i Rb¨ cwZ mßv‡n kZvsk cwZ 4-5 †KwR †Mvei Ges BDwiqv I wUGmwc mvi 100 Mvg nv‡i c‡qvM Ki‡Z n‡e| cK‡i wbqwgZfv‡e Rvj †U‡b gv‡Qi ¯v¯¨ cix¶v Ki‡Z n‡e| cRbbKv‡j ¯x ˆK gv‡Qi Mv‡qi is nvjKv ev`wg I e¶ cvLbv D¾j ev`wg eY avivY K‡i|
- cRb‡bi Rb¨ Bb‡RKkb †`qvi AšZt 6 N›Uv c‡e e“W gvQ cKi †_‡K mZKZvi mv‡_ cwienY K‡i n¨vPwi‡Z G‡b wmóv‡b †i‡L cwbi †dvqviv w`‡Z n‡e|
- cRb‡bi Rb¨ ci“l I ¯x Dfq gvQ‡K GKwU K‡i ni‡gvb Bb‡RKkb w`‡Z nq| ¯x gvQ‡K 6-8 wgwjMvg wcwR/†KwR nv‡i I ci“l gvQ‡K 2-3 wgwjMvg wcwR/†KwR nv‡i Bb‡RKkb †`qvi ci ci“l I ¯x gvQ‡K 1t1 Abcv‡Z nvcvq †i‡L cwbi KwÎg SYv cevn w`‡Z n‡e|
- mvavivYZt Bb‡RKkb †`qvi 6 N›Uv ci gvQ wWg w`‡q _v‡K| wWg Qvovi ci hZ `“Z m¤e e“W gvQM‡jv‡K mZKZvi ms‡M nvcv †_‡K mwi‡q 1 wcwcGg gvÎvq cUwkqvg cvig¨v½v‡bU `e‡b †Mvmj Kwi‡q cK‡i †Q‡o w`‡Z n‡e|
- mvavivYZ 22-24 N›Uv ci wWg d‡U †iY †cvbv †ei nq|
- †iY¸‡jv‡K wm‡g›U wm÷vb ev †gUvj †U‡Z ¯vbvši Ki‡Z n‡e Ges †iYi wW¤_wj wbt‡kwlZ nlqvi ci Lvevi wn‡m‡e 1-2 w`b wW‡gi Kmg/wUDwe‡d·/AwUwgqv Lvlqv‡Z n‡e|

†cvbv cwZcvjb

- ‰K gv‡Qi †cvbv cwZcvj‡bi Rb¨ bvmwi cK‡ii AvqZb 25-30 kZvsk Ges MfxiZv 1-1.5 wgUvi n‡j fvj nq|
- h_vh_ Dcv‡q bvmwi cKi c¯Z ceK cwZ kZvs‡k 7,000-8,000 wU †cvbv (5-7 w`b eqm) gR` Kiv †h‡Z cv‡i n‡e|
- mvc, e¨vO, KxU-cZ½ BZ¨w` †iv‡a cK‡ii Pvicv‡k 1 wgUvi D”PZvq bvBjb †bU ¯vcb Ki‡Z n‡e|
- c_g 25 w`b †cvbvi †`n IR‡bi wØ¸b nv‡i 20-25% Awgl h³ ewYwR¨K bvmwi Lvevi w`‡Z n‡e|
- eivÏKZ Lvevi w`‡b 3-4 ev‡i cK‡i c‡qvM Ki‡Z n‡e|
- bvmwi cK‡i 25-30 w`b †cvbv cwZcvj‡bi ci Pv‡li cK‡i Qvovi Dch³ n‡e|

2| gv¸i gv‡Qi cRbb I †cvbv Drcv`b †KŠkj

gv¸i AvBkwenxb wRIj gvQ, †`n jvj‡P ev`vwg ev ami Kv‡jv, mvaviYZt 20-30 †mwg. chš j¤v nq | gv¸i gv‡Q AwZwi³ kmbhš _vKvi d‡j `xN¶Y cwb Qvov †e‡P _vK‡Z cv‡i| Lvj, wej, cvebfwg, nvli-evlo, cKi w`Nx, †Wvev- bvjv Ges wbgw¾Z avb‡¶Z gv¸i gv‡Qi cavb Avevm¯j| †mvZnxb Ave× cwb‡Z AvMvQv, bj- LvMov, KPwicvbv Ges cPv Wvj-cvjv h³ Rjvk‡q ¯"Q‡›` emevm Ki‡Z cv‡i| gv¸i gvQ mvaviYZt mefK (omnivorous) Ges Rjvk‡qi Zjvq emevm K‡i|

cvKwZK cRbb

- gv¸i gvQ GK eQ‡ii g‡a¨B cwic°Zv jvf K‡i Ges eQ‡i GKevi cRbb K‡i _v‡K| GKB eq‡mi ¯x gv¸i gvQ ci"l gv¸i gv‡Qi Zjbvq wKQUv AvKv‡i eo nq| Giv cvKwZK cwi‡e‡k cRbb m¤úb K‡i|
- cRbbKvj †g †_‡K AvM÷ gvm chš| Z‡e Rb- RjvB gvm mevbKj cRbb Kvj wn‡m‡e we‡ewPZ|
- cRb‡bi mg‡q bZb cwb Avmvi mv‡_ mv‡_B Giv Awfcvqb K‡i wbKUeZx avb†¶Z, cvU‡¶Z, cvebfwgi †Svc-Svo GjvKvq hvq Ges †mLv‡b gwU‡Z †MvjvKvi MZ K‡i Zv‡Z wWg Qv‡o|
- gv¸i gv‡Qi wWg avivY ¶gZv ^`wnK IR‡bi Ici A‡bKvs‡k wbfikxj| mvaviYZ 80 †_‡K 100 Mvg IR‡bi gv¸i gv‡Qi wWg avivY ¶gZv 7,000-10,000 wU|
- gv¸‡ii cwic° wWg nvjKv meR †_‡K Zvgv‡U e‡Yi n‡q _v‡K| wbwl³ wWg AvVv‡jv Ges Mv‡Qi Wvj-cvjv I AvMvQvq †j‡M _v‡K|
- 18-20 N›Uv ci wWg d‡U ev"Pv †ei nq| 2-3 w`‡bi g‡a¨ Kmg _vj wbt‡kwlZ n‡q hvIqvi ci wUDwewdwmW Iqvgm I ¶` RjR †cvKv-gvKo Lv`¨ wnmv‡e Mnb K‡i ‰`wnK ew× jvf K‡i|

c‡Yw`Z cRbb

ni‡gvb Bb‡RKk‡bi gva¨‡g KwÎg Dcv‡qI gv¸i gv‡Qi cRbb Kiv‡bv hvq| eZgv‡b A‡bK miKvix-†emiKvix n¨vPvix‡Z gv¸i gv‡Qi KwÎg cRbb I †cvbv Drcv`‡b mdjZv jvf K‡i‡Q|

- e"W cwZcvjb t DbZ gv‡bi †cvbv Drcv`‡bi Rb¨ cRbb FZi 3-4 gvm Av‡M A_vr wW‡m¤i-Rvbqvix‡Z cvKwZK Drm †_‡K m¯-mej e"W gvQ msMn Ki†Z n‡e| gR` cK‡i cwZ kZvs‡k 60-80 wU gvQ ‡i‡L 30-35% Awgl mg× m¤úiK Lvevi gv‡Qi †`n IR‡bi 4-5% nv‡i c‡qvM Ki‡Z n‡e| cvkvcwk cvKwZK Drcv`bkxjZv ew×i Rb¨ cwZ mßv‡n kZvsk cwZ 7-8 †KwR †Mvei Ges BDwiqv I wUGmwc mvi 100 Mvg nv‡i c‡qvM Ki‡Z n‡e| cK‡i wbqwgZfv‡e Rvj †U‡b gv‡Qi ¯v¯¨ cix¶v Ki‡Z n‡e|
- cRb‡bi Rb¨ Bb‡RKkb †`qvi AšZt 6 N›Uv c‡e e"W gvQ cKi †_‡K mZKZvi mv‡_ cwienb K‡i n¨vPwi‡Z G‡b wmóv‡b †i‡L cwbi †dvqvi w`‡Z n‡e|
- ¯x gvQ‡K cwZ †KwR‡Z 2 wgwj. lfwcg A_ev 2 wgwj. mwcg A_ev 80-110 wgwjMvg wcwR GKevi c‡qvM Ki‡Z nq| ci"l gvQ‡K cwZ †KwR‡Z 1 wgwj. lfwcg/mwcg A_ev 30-40 wgwjMvg wcwR GKevi ni‡gvb wnmv‡e c‡qvM Ki‡Z nq|
- Bb‡RKkb †`qvi 12-16 N›Uv ci gvQ wWg w`‡q _v‡K|
- ci"l gv‡Qi †cU †K‡U ïµvkq †ei K‡i 0.9% jeb `e‡Y wgwk‡q ïµvbi `eY ^Zix Kiv nq|
- ¯x gv‡Qi †c‡U Pvc w`‡q wWg †ei Kiv nq Ges ïµvb `e‡Yi mv‡_ fv‡jv fv‡e wgwk‡q wWg wbwl³ Kiv nq|
- wbwl³ wWg †gUvj †U/wm‡g›U wm÷v‡b fvjfv‡e Qwo‡q w`‡q SYv AvKv‡i cwb cev‡ni mwó Ki‡Z nq|
- Zvcgv Îvi Dci wfwË K‡i 24-30 N›Uv ci wWg d‡U jwf †ei nq|
- wWg dUvi 2-3 w`b ci †iY‡K wW‡gi Kmg/AwUwgqv/wUDwe‡d· Lvevi wnmv‡e w`‡Z nq|

†cvbv cwZcvjb

- gv¸i gv‡Qi †cvbv cwZcvj‡bi Rb¨ bvmwi cK‡ii AvqZb 25-30 kZvsk Ges MfxiZv 1-1.5 wgUvi n‡j fvj nq|
- mwVK c×wZ‡Z bvmwi cKi c¯Z Kivi ci cwZ kZvs‡k 8,000-10,000 wU †cvbv (5-7 w`b eqm) gR` Kiv †h‡Z cv‡i n‡e|

- mvc, e¨vO, KxU-cZ½ BZ¨w` †iv‡a cK‡ii Pvicv‡k 1 wgUvi D"PZvq bvBjb †bU ¯vcb Ki‡Z n‡e|
- c_g 25 w`b †cvbvi †`n IR‡bi wØ¸b nv‡i 20-25% Awgl h³ ewYwR¨K bvmvix Lvevi w`‡Z n‡e|
- bvmwi cK‡i †cvbv‡K c_g 2-3 w`b wUDwe‡d· mieivn Ki‡Z n‡e, cieZx‡Z ax‡i ax‡i ewYwR¨K Lvev‡i Af¨¯— Ki‡Z n‡e|
- eivÏKZ Lvevi w`‡b 2-3 ev‡i cK‡i c‡qvM Ki‡Z n‡e|
- bvmwi cK‡i 25-30 w`b †cvbv cwZcvj‡bi ci Pv‡li cK‡i Qvovi Dch³ n‡e|

3| wks gv‡Qi cRbb I †cvbv Drcv`b †KŠkj

wks gvQ AvBkwenxb j¤v‡U wRIj gvQ, eY ev`vwg jvj, mvaviYZt 20-30 †mwg. chš j¤v nq, AwZwi³ kmbhš _vKvi d‡j `xN¶Y cwb Qvov †e‡P _vK‡Z cv‡i| Lvj, wej, cvebfwg, nvIi-evIo, cKi, †Wvev- bvjv, wbgw¾Z avb †¶Z BZ¨w` GjvKv wks gv‡Qi cavb Avevm¯j| G Qvov K`gv³ Zjvi gwU‡Z, M‡Z wbgw¾Z Mv‡Qi Mwoi Zjvq ev mo‡½ Giv emevm Ki‡Z cQ›` K‡i| wks gvQ AvMvQv, `j, KPwicvbv, cPv jZv-cvZv, Wvj-cvjv Aa¨wIZ Rjvk‡q ¯v"Q‡›` emevm Ki‡Z cv‡i| wks gvQ mvaviYZ mefK (omnivorous), Rjvk‡qi Zjvi Lv`¨ †L‡q _v‡K|

cvKwZK cRbb

- wks gvQ c_g eQ‡iB cwic°Zv jvf K‡i Ges eQ‡i GKevi cRbb K‡i _v‡K| GKB eq‡mi ¯x wks gvQ ci"l gv‡Qi Zjbvq wKQUv AvKv‡i eo nq| Giv cvKwZK cwi‡e‡k cRbb m¤úb K‡i|
- cRbbKvj †g †_‡K AvM÷ gvm chš| Z‡e Rb-RjvB gvm mevbKj cRbb Kvj wn‡m‡e we‡ewPZ|
- cRb‡bi mg‡q bZb cwb Avmvi mv‡_ mv‡_B wbKUeZx avb †¶Z, cvU †¶Z, cvebfwgi †Svc-Svo GjvKvq P‡j hvq Ges †mLv‡b gwU‡Z †MvjvKvi MZ K‡i Zv‡Z wWg Qv‡o|
- wks gv‡Qi wWg aviY ¶gZv ^`wnK IR‡bi Ici A‡bKvs‡k wbfikxj| mvaviYZ: ‡`‡ni AvKwZi Dci wbfi K‡i wWg aviY ¶gZv 4,000-15,000 wU|
- cwic° wWg nvjKv Zvgv‡U e‡Yi nq| wbwl³ wWg AvVv‡jv Ges Mv‡Qi Wvj-cvjv I AvMvQvq †j‡M _v‡K|
- 18-20 N›Uv ci wWg d‡U ev"Pv †ei nq| 2-3 w`‡bi g‡a¨ Kmg _vj wbt‡kwlZ n‡q hvIqvi ci wUDwewdwmW Iqvgm I ¶` RjR †cvKv-gvKo Lv`¨ wnmv‡e Mnb K‡i ^`wnK ew× jvf K‡i|

c‡Yww`Z cRbb

eZgv‡b ewYwR¨Kfv‡e wks gv‡Qi c‡Yww`Z cRbb I †cvbv Drcv`b mdjZv jvf K‡i‡Q|

- e"W cwZcvjb t cvKwZK/Dch³ Drm t_‡K wW‡m¤i-Rvbqvix‡Z m¯-mej e"W gvQ msMn Ki†Z n‡e| Kg MfxiZvi cKi (1-1.5 wgUvi) wks gv‡Qi e"W jvj‡bi Rb¨ †ekx Dc‡hvMx| kZvsk cwZ 50-80 wU gvQ gR` Ki‡Z n‡e Ges 25-30% Awgl mg× m¤úiK Lvevi gv‡Qi †`n IR‡bi 4-5% nv‡i c‡qvM Ki‡Z n‡e| cvkvcwk cvKwZK Drcv`bkxjZv ew×i Rb¨ cwZ mßv‡n kZvsk cwZ 7-8 †KwR †Mvei Ges BDwiqv I wUGmwc mvi 100 Mvg nv‡i c‡qvM Ki‡Z n‡e| cK‡i wbqwgZfv‡e Rvj †U‡b gv‡Qi ¯v¯¨ cix¶v Ki‡Z n‡e|
- gv‡Q ni‡gvb c‡qv‡Mi AšZt 6 N›Uv c‡e e"W gvQ cKi t_‡K msMn K‡i mZKZvi mv‡_ n¨vPwi‡Z G‡b wmóv‡b ivL‡Z n‡e Ges cwbi †dvqviv w`‡Z n‡e|
- ¯x gvQ‡K cwZ †KwR‡Z 2 wgwj Ifwcg/mwcg A_ev 60-70 wgwjMvg wcwR GKevi c‡qvM Ki‡Z nq| ci"l gvQ‡K cwZ †KwR‡Z 1wgwj Ifwcg/mwcg A_ev 30-35 wgwjMvg wcwR GKevi c‡qvM Ki‡Z nq|
- gvQ‡K Bb‡RKkb †`qvi ci ci"l I ¯x gvQ‡K 1t1 Abcv‡Z wmóv‡b A_ev nvcv‡Z †Q‡o w`‡Z n‡e|
- Bb‡RKkb †`qvi 8-10 N›Uv ci ¯x gvQ wWg w`‡q _v‡K| wWg †`qvi ci e"W gvQ¸‡jv‡K mZKZvi m‡_ wm÷vb t_‡K Z‡j 1 wcwcGg cUwkqvg cvig¨v½v‡bU `e‡Y †MvQj Kwi‡q cK‡i †Q‡o w`‡Z n‡e|
- wbwl³ wWg †gUvj †U/wm‡g›U wm÷v‡b fvjfv‡e Qwo‡q w`‡q SYv AvKv‡i cwb cev‡ni mwó Ki‡Z n‡e|
- Zvcgv‡Îvi Dci wfwË K‡i 20-24 N›Uv ci wWg d‡U ev"Pv †ei nq|
- wWg dUvi 2-3 w`b ci †iY‡K wW‡gi Kmg/AwUwgqv/wUDwe‡d· Lvevi wnmv‡e w`‡Z nq|

†cvbv cwZcvjb

- 25-30 kZvsk AvKvi I 1-1.5 wgUvi MfxiZvi cKi wks gv‡Qi bvmwi wnmv‡e e¨envi Kiv fvj|
- mwVK c×wZ‡Z bvmwi cKi c¯Z Kivi ci cwZ kZvs‡k 8,000-10,000 wU †cvbv (15-20 w`b eqm) gR` Kiv hvq|
- G mgq cK‡ii Pvicv‡k 1 wgUvi DP bvBjb Rvj ¯vcb K‡i mvc, e¨vO, KxU-cZ½ cwZ‡iva Kiv nq|
- †cvbvi †`n IR‡bi wØ¸b nv‡i 20-25% Awgl h³ ewYwR¨K bvmwi Lvevi w`‡Z n‡e|
- eivÏKZ Lvevi w`‡b 2-3 ev‡i cK‡i c‡qvM Ki‡Z n‡e|
- bvmwi cK‡i 25-30 w`b †cvbv cwZcvj‡bi ci Pv‡li cK‡i Qvovi Dch³ n‡e|

4| evUv gv‡Qi c‡Yw`Z cRbb I †cvbv Drcv`b †KŠkj

- e“W cwZcvjb t fv½b evUv ev †iev gv‡Qi cRbbKvj Gwcj-AvMó gvm| cRb‡bi 3-4 gvm c‡e m¯-mej e“W gvQ†K 25% Awgl mg× m¤úiK Lvevi c‡qv‡M cwZcvjb Ki‡Z n‡e| Lvevi wnmv‡e PvD‡ji Kov, mwilvi ˆLj, wdk wgj I wfUwgb GK‡Î wgwkZ K‡i gv‡Qi †`n IR‡bi 3-5% nv‡i ‰`wbK 2-3 ev‡i cK‡i c‡qvM Ki‡Z n‡e| cK‡i cvKwZK Drcv`bkxjZv ew×i Rb¨ cwZ mßv‡n kZvsk cwZ 4-5 †KwR †Mvei Ges BDwiqv I wUGmwc mvi 100 Mvg nv‡i c‡qvM Ki‡Z n‡e| cK‡i wbqwgZfv‡e Rvj †U‡b gv‡Qi ¯v¯¨ cix¶v Ki‡Z n‡e|
- evUv gv‡Qi cRb†bi Rb¨ ni‡gvb Bb‡RKkb †`qvi 6-10 N›Uv c‡e e“W gvQ a‡i mZKZvi mv‡_ n¨vPwi‡Z wm‡g›U wmóv‡b ¯vbvši K‡i cwbi †dvqviv w`‡Z n‡e|
- ¯x I ci“l Dfq gvQ‡K GKevi K‡i ni‡gvb Bb‡RKkb w`‡Z nq| mvavibZ ¯x gvQ‡K cwZ †KwR‡Z 4-6 wgwjMvg nv‡i Ges ci“l gvQ‡K 1-2 wgwjMvg nv‡i wcwR `eb ni‡gvb wn‡m‡e †`qv nq|
- Bb‡RKkb †`qvi ci ci“l I ¯x gvQ‡K 1t1 Abcv‡Z wmóv‡b †i‡L cwbi KwÎg cevn w`‡Z n‡e|
- Bb‡RKkb †`qvi 8-9 N›Uv ci mvaviYZt Pvc c‡qvM c×wZ ev wbqwšZ cwb cev‡ni cvKwZK cwi‡ek mwói gva¨‡g gv‡Qi wWg msMn Kiv nq| wWg †`qvi ci e“W gvQ¸‡jv‡K mZKZvi m‡_ wmóvb †_‡K Z‡j 1 wcwcGg cUwkqvg cvig¨v½v‡bU `e‡Y †MvQj Kwi‡q cK‡i †Q‡o w`‡Z n‡e|
- wbwl³ wWg n¨vPwi‡Z dv‡bj BbK‡eUi ev †evZj Rv‡i cwbi cevn w`‡q wWg †dvUv‡bv nq|
- Zvcgv‡Îvi Dci wfwË K‡i 14-16 N›Uv ci wWg d‡U ev”Pv †ei nq|
- wWg dUvi 2-3 w`b ci †iY‡K wW‡gi Kmg Lvevi wnmv‡e w`‡Z nq|

†cvbv cwZcvjb

- evUv gv‡Qi bvmwi cK‡ii AvqZb 25-30 kZvsk I MfxiZv 1-1.5 wgUvi n‡j fvj nq|
- mwVK c×wZ‡Z bvmwi cKi c¯Z Kivi ci cwZ kZvs‡k 10,000-15,000 wU †cvbv (5-7 w`b eqm) gR` Kiv hvq|
- cv_wgKfv‡e 5 w`b †iY †cvbvi ‡gvU IR‡bi wØ¸b nv‡i Ges cieZx 5 w`b Aši Aši ‡cvbvi ‡gvU IR‡bi h_vµ‡g 15, 10 I 5% nv‡i ewYwR¨K bvmwi Lvevi A_ev m¤úiK Lvevi w`‡Z nq|
- eivÏKZ Lvevi w`‡b 2-3 ev‡i cK‡i c‡qvM Ki‡Z n‡e|
- bvmwi cK‡i 25-30 w`b †cvbv cwZcvj‡bi ci Pv‡li cK‡i Qvovi Dch³ nq|

5| †`kx micwU gv‡Qi c‡Yw`Z cRbb I †cvbv Drcv`b †KŠkj

- e“W cwZcvjb t micwU gv‡Qi mevbKj cRbbKvj n‡”Q Gwcj-Rb gvm| cRb‡bi 3-4 gvm c‡e m¯-mej e“W gvQ†K 25-30% Awgl mg× m¤úiK Lvevi c‡qv‡M cwZcvjb Ki‡Z nq| Lvevi wnmv‡e PvD‡ji Kov, mwilvi ˆLj, wdk wgj I wfUwgb wcwg· GK‡Î wgwkZ K‡i gv‡Qi †`n IR‡bi 3-5% nv‡i ‰`wbK 2-3 ev‡i cK‡i c‡qvM Ki‡Z nq| cK‡i cvKwZK Drcv`bkxjZv ew×i Rb¨ cwZ mßv‡n kZvsk cwZ 4-5 †KwR †Mvei Ges BDwiqv I wUGmwc mvi 100 Mvg nv‡i c‡qvM Ki‡Z nq Ges wbqwgZfv‡e Rvj †U‡b gv‡Qi ¯v¯¨ cix¶v Ki‡Z nq|
- micwU gv‡Qi cRb‡bi Rb¨ ni‡gvb c‡qv‡Mi 6-10 N›Uv c‡e e“W gvQ a‡i mZKZvi mv‡_ n¨vPwi‡Z wm‡g›U wmóv‡b ¯vbvši K‡i cwbi †dvqviv w`‡Z n‡e|

- cRb‡bi Rb¨ ¯x I ci“l Dfq gvQ‡K GKwU K‡i ni‡gvb Bb‡RKkb w`‡Z nq| mvavi YZt ¯x gvQ‡K cwZ †KwR‡Z 6-7 wgwjMvg nv‡i Ges ci“l gvQ‡K 2 wgwjMvg nv‡i wcwR `eb c‡qvM Kiv nq|
- ni‡gvb c‡qv‡Mi ci ci“l I ¯x gvQ‡K 1t1 Abcv‡Z wmóv‡b †i‡L cwbi KwÎg cevn w`‡Z n‡e|
- Bb‡RKkb †`qvi 6-7 N›Uv ci ¯x gvQ wWg †`q| mvavi YZt cwb cev‡ni wbqwšZ cvKwZK cwi‡ek mwói gva¨‡g gv‡Qi wWg msMn Kiv nq| wWg †`qvi ci e“W gvQ¸‡jv‡K mZKZvi mv‡_ 1 wcwcGg cUwkqvg cvig¨v½v‡bU `e‡Y †MvQj Kwi‡q cK‡i †Q‡o w`‡Z n‡e|
- wbwl³ wWg n¨vPwi‡Z dv‡bj BbK‡eUi ev †evZj Rv‡i cwbi cevn w`‡q wWg †dvUv‡bv nq |
- Zvcgv Îvi Dci wfwË K‡i mvavi YZ 18-20 N›Uv ci wWg d‡U ev”Pv †ei nq|
- wWg †_‡K †iY †ei nIqvi ci nvcv‡Z 2-3 w`b ivL‡Z nq| AZtci †iYi wWg_wj wbt‡kwlZ nIqvi ci Lvevi wn‡m‡e †iY‡K giMxi wW‡gi Kmg w`‡Z nq|

†cvbv cwZcvjb

- †cvbv cwZcvj‡bi Rb¨ AvZi cK‡ii AvqZb 25-30 kZvsk I Mfxi Zv 1-1.5 wgUvi n‡j fvj nq|
- mwVK c×wZ‡Z bvmwi cKi c¯Z Kivi ci cwZ kZvs‡k 10,000-15,000 wU †cvbv (5-7 w`b eqm) gR` Kiv hvq|
- cv_wgK fv‡e 5 w`b †iY †cvbvi †gvU IR‡bi wØ¸b nv‡i Ges cieZx 5 w`b Aši Aši ‡cvbvi ‡gvU IR‡bi h_vµ‡g 15, 10 I 5% nv‡i ewYwR¨K bvmwi Lvevi A_ev m¤úiK Lvevi w`‡Z nq|
- eivÏKZ Lvevi w`‡b 2-3 ev‡i cK‡i c‡qvM Ki‡Z n‡e|
- bvmwi cK‡i 25-30 w`b †cvbv cwZcvj‡bi ci Pv‡li cK‡i Qvovi Dch³ nq|

6| cve`v I ¸jkv gv‡Qi c‡Yw`Z cRbb I †cvbv Drcv`b †KŠkj

- e“W cwZcvjb t cve`v I ¸jkv gv‡Qi cRbbKvj Rb-RjvB gvm| DbZgv‡bi †cvbv Drcv`‡bi Rb¨ cRbb FZi 3-4 gvm Av‡M †_‡KB cvKwZK Drm †_‡K e“W gvQ msMn K‡i kZvsk cwZ 60-80wU gR` Kiv †h‡Z cv‡i| Lvevi wnmv‡e Gmg‡q 30% Awgl mg× m¤úiK Lvevi gv‡Qi †`n IR‡bi 3-5% nv‡i ‰`wbK 2-3 ev‡i cK‡i c‡qvM Ki‡Z n‡e| cK‡i cvKwZK Drcv`bkxjZv ew×i Rb¨ cwZ mßv‡n kZvsk cwZ 4-5 †KwR †Mvei Ges BDwiqv I wUGmwc mvi 100 Mvg nv‡i c‡qvM Ki‡Z n‡e| cK‡i wbqwgZfv‡e Rvj †U‡b gv‡Qi ¯v¯¨ cix¶v Ki‡Z n‡e|
- c‡Yw`Z cRb‡bi Rb¨ ni‡gvb c‡qv‡Mi 6-10 N›Uv c‡e e“W gvQ cKi †_‡K msMn K‡i mZKZvi mv‡_ n¨vPwi‡Z wm‡g›U wm÷v‡b ‡i‡L cwbi †dvqvi w`‡Z n‡e|
- wb‡æ cve`v I ¸jkv gv‡Qi c‡Yw`Z cRb‡bi †¶‡Î ni‡gv‡bi gvÎv D‡jL Kiv n‡jv t

cRbb Kvhµg	cve`v	¸jkv
Bb‡RKkb c‡qvM	2 evi	1 evi
ni‡gvb gvÎv	1g †WvR t ¯x: 3-4 wgwjMvg wcwR/†KwR ci“l: 4-6 wgwjMvg wcwR/†KwR 2q †WvR: 6 N›Uv ci ¯x: 12-16 wgwjMvg wcwR/†KwR ci“l: 6-8 wgwjMvg wcwR/†KwR	¯x: 8-12 wgwjMvg wcwR/†KwR ci“l: 4-6 wgwjMvg wcwR/†KwR

- Dfq gvQB ni‡gvb c‡qv‡Mi ci 1t1 Abcv‡Z nvcv/ wmóv‡b †i‡L cwbi KwÎg cevn mwó Kiv nq hv‡Z gvQ cRb‡bi Rb¨ c‡Yw`Z nq|
- ni‡gvb c‡qv‡Mi 8-10 N›Uv ci ¯x gvQ wWg w`‡q _v‡K|
- wWg †`qvi ci e“W gvQ¸‡jv‡K mZKZvi m‡_ nvcv/wm÷vb †_‡K Z‡j 1 wcwcGg cUwkqvg cvig¨v½v‡bU `e‡Y †MvQj Kwi‡q cK‡i †Q‡o w`‡Z n‡e|

- Zvcgv Îvi Dci wfwË K‡i 18-22 N›Uv ci wWg d‡U †iY †cvbv †ei nq Ges Kmg _wj wbt‡kwlZ nlqv chš nvcv/ wmóv‡b ivL‡Z nq|
- Kmg_wj wbt‡kwlZ nlqvi ci †iY‡K wm÷v‡b ¯vbvši K‡i c_g 1-2 w`b wW‡gi Kmg w`‡Z n‡e Ges cieZx 8-10 w`b Lv`¨ wnmv‡e R-c¨v¼Ub/AwUwgqv bwc mieivn Ki‡Z nq|

†cvbv cwZcvjb

- cve`v I ¸jkvi bvmwi cK‡ii AvqZb 5-10 kZvsk I MfxiZv 1 wgUvi n‡j fvj nq|
- cKi c¯wZi mgq cvKwZK Lvevi (we‡klZt R-c¨v¼Ub) Drcv`‡bi Rb¨ kZvsk cwZ 20 †KwR nv‡i †Mvei mvi c‡qvM Ki‡Z nq|
- h_vh_fv‡e bvmwi c¯Z Kivi ci cwZ kZvs‡k 8-10 w`b eq‡mi 3,000-4,000 wU cve`v/¸jkv gv‡Qi †cvbv gR` Kiv hvq|
- ‡cvbv Qvovi ci †cvbvi †gvU lR‡bi 12-15% nv‡i m¤úiK Lvevi (40% Pv‡ji Kov, 30% mwilvi ˆLj I 30% wdkwgj Gi wgkY) A_ev ewYwR¨K bvmwi Lvevi c`vb Ki‡Z n‡e|
- eivÏKZ Lvevi w`‡b 2-3 ev‡i cK‡i c‡qvM Ki‡Z n‡e|
- bvmwi cK‡i cwZcvj‡bi c‡i †cvbvi lRb 2.0-2.5 Mvg n‡j Zv PvI cK‡i Qvo‡Z n‡e|

7| Pv‡li cK‡i gjv I cwU gv‡Qi cvKwZK cRbb

gjv I cwU gv‡Qi c‡Yw`Z cRbb Kiv nq bv †Kbbv cvKwZK Rjvkq, cKi-‡Wve n‡Z G mKj gvQ mn‡RB cvIqv hvq| G‡`i e“W gvQ mivmwi Pv‡li cK‡i gR` K‡i cvKwZKfv‡e †cvbv Drcv`b Kiv hvq Ges GKevi gR` Ki‡jB cieZx‡Z Pv‡li Rb¨ Avi †cvbv gR` Kivi c‡qvRb nq bv|

e“W msMn

cvKwZK Drm¨ A_ev Av‡kcv‡ki cKi n‡Z gjv I cwU gv‡Qi e“W msMn Kiv hvq| e“W aivi mgq LeB mveavbZv Aej¤b Ki‡Z nq, KviY G gvQ¸‡jv LeB bvRK cKwZi| GRb¨ big mwZi †eo Rvj Øviv Kg bvovPvov K‡i gvQ aiv DwPZ|

e“W cwienb

e“W wnmv‡e ¯vbvš‡ii mgq Le mveavbZvi mv‡_ cwienb Ki‡Z n‡e, †Kbbv G gvQ¸‡jv Le mn‡RB gviv hvIqvi m¤vebv _v‡K| m¤e n‡j Aw·‡Rb e¨v‡M 200wU K‡i e“W cwienb Ki‡Z n‡e| e“W gv‡Qi Drm KvQvKwQ nlqv fvj hv‡Z K‡i 2-3 N›Uvi g‡a¨B Pv‡li cK‡i e“W gR` Kiv hvq| Kg `i‡Zi †¶‡Î cwZ‡jI e“W gvQ cwienb Kiv hvq, Z‡e G ‡¶‡Î 30 wjUvi cwb‡Z 1 c¨v‡KU lim¨vjvBb Gi ¼ fvM fvj fv‡e wgwk‡q 150-170 wU e“W cwienb Kiv hvq|

gR` NbZ

gjv I cwU gvQ e“W wnmv‡e msMn Kivi ci Kvc wgk Pv‡li cK‡i cwZ kZvs‡k 50wU gjv I 50wU cwU gR` Ki‡Z nq|

cvKwZKfv‡e Pv‡li cK‡i gjv I cwUi esk ew×‡Z KiYxq

- Pv‡li cK‡i gjv I cwU gv‡Qi esk ew×i mweav‡_ cK‡ii cv‡o wbqwšZ gvÎvq RjR AvMvQv (Kjwg, †n‡jÂv, gvjÂ BZ¨vw`) ivL‡Z n‡e|
- cK‡i e“W gR‡`i 15-30 w`‡bi g‡a¨ RjR AvMvQvq Giv cvKwZKfv‡e cRbb K‡i Ges Gmgq cPi cwigvb †cvbv fvmgvb Ae¯vq cwbi Dcwifv‡M †`Lv hvq| G Ae¯vq cK‡i †Kvbfv‡eB Rvj Uvbv hv‡e bv| †cvbv‡K Lv`¨ wnmv‡e Pv‡ji wgwn Kov ïKbv A¯vq cK‡ii Dcwifv‡M wQwU‡q w`‡Z n‡e|
- e“W gR‡`i Aí mg‡qi g‡a¨B †cvbvi msL¨v AZ¨waK nv‡i †e‡o hvq| G Ae¯vq gjv/cwU eo n‡j (3-4 †mwg.) 15 w`b Aši Aši AvswkK AvniY Kiv AZ¨vek¨K|

wdc PvU cwiKíbv

†`kxq †QvU gv‡Qi cRbb I †cvbv Drcv`b †KŠkj

cRbb

cRbb nj Rx‡ei ea‡bi Rb¥MZ ¶gZv| cRbb Øviv Rxe bZb Rx‡ei ev mšv‡bi Rb¥ †`q| †h †Kvb c×wZ‡Z cwic° Rxe †_‡K bZb Rx‡ei Rb¥ nlqvUvB nj cRbb| grm¨ cRb‡bi †¶‡Î mvavibZt wWgd‡U bZb Rx‡ei Rb¥ nq|

†QvU gv‡Qi cRbb :

cvKwZK cRbb : cvKwZK cwi‡e‡k (†hgb b`-b`x‡Z) †¯"Qv c‡bw`Zfv‡e gv‡Qi cRbbB cvKwZK cRbb|

KwÎg cRbb : n¨vPvix‡Z KwÎgfv‡e gvQ‡K ni‡gvb ev D‡ËRK e¨envi K‡i cRbb Kiv‡bvB KwÎg cRbb|

†QvU gv‡Qi cRbb Kvj I cRbb aiY

cRwZ	cRbb Kvj	wWg avivY ¶gZv	cRbb aiY
gjv	†g-A‡±vei mevbKj: AvM÷	3,596±150 (75-80 wgwg gvQ)	cvKwZK
cwU	†g-A‡±vei (2wU FZ)	1,400 - 1,900	cvKwZK
†Xjv	†g-RjvB	1,050 - 9,360	cvKwZK
wks	Rb-RjvB	8,000-10,000 (40-70 Mvg gvQ)	cvKwZK KwÎg
gv¸i	Rb-RjvB	7,000-8,000 (80-100 Mvg gvQ)	cvKwZK KwÎg
‰K	Rb-RjvB	6,000-8,000 (80-100 Mvg gvQ)	cvKwZK KwÎg
cve`v	†g-AvM÷ mevbKj: Rb-RjvB	11,000-20,000 (40-100 Mvg gvQ)	KwÎg
¸jkv	Rb-†m‡Þ¤i mevbKj: RjvB-AvM÷	6,000-22,000 (28-52 Mvg gvQ)	KwÎg

ˆK gv‡Qi cRbb

cvKwZK cRbb

- 1g eQ‡iB cRbb¶g nq I eQ‡i 1 evi cRbb K‡i|
- cRbb FZ‡Z elvi ewó bvg‡jB cRb‡bi Rb¨ Giv gvB‡MU K‡i avb †¶Z, †Wvev, Lvj-wej BZ¨w` ¯v‡b P‡j hvq| AZtci bZb ¯v‡b †Svc-Svo RvZxq Dw™‡`i g‡a¨ wWg Qv‡o|
- ‰K gv‡Qi wWg fvmgvb| Zvcgv‡Îvi Dci wbfi K‡i 18-24 NÈvi g‡a¨ wbwl³ wWg d‡U ev"Pv †ei nq|

c‡Yw`Z cRbb

- cRbb FZi 3-4 gvm c‡e cvKwZK/ Dch³ Drm †_‡K e"W msMn K‡i cwZcvjb Ki‡Z n‡e|
- Bb‡RKk‡bi AšZt 6 N›Uv c‡e e"W gvQ n¨vPwi‡Z G‡b wmóv‡b †i‡L cwbi †dvqvi w`‡Z n‡e|
- ni‡gvb †WvR t ¯x gvQ: 6-8 wgMv. wcwR/†KwR
  ci"l gvQ: 2-3 wgMv. wcwR/†KwR
- ci"l I ¯x gvQ‡K 1t1 Abcv‡Z nvcvq ivL‡Z nq|

‰K gv‡Qi †cvbv cwZcvjb

†cvbv cwZcvjb

- ‰K gv‡Qi bvmwi cK‡ii AvqZb 25-30 kZvsk Ges MfxiZv 1-1.5 wgUvi n‡j fvj nq|
- h_vh_fv‡e bvmwi cKi c¯Z K‡i cwZ kZvs‡k 5-7 w`b eq‡mi 7-8 nvRvi †cvbv gR` Ki‡Z n‡e|
- mvc, e¨vO, KxU-cZ½ †iv‡a cK‡ii Pvicv‡k 1 wgUvi D"PZvq bvBjb †bU ¯vcb Ki‡Z n‡e|
- c_g 25 w`b †`n IR‡bi wØ¸b nv‡i 20-25% Awgl h³ ewYwR¨K bvmvix Lvevi w`‡Z n‡e|
- eivÏKZ Lvevi w`‡b 3-4 ev‡i c‡qvM Ki‡Z n‡e|

gv¸i gv‡Qi cRbb

cvKwZK cRbb

- gv¸i gvQ 1 eQ‡ii g‡a¨B cwic°Zv jvf K‡i|
- cRb‡bi mg‡q elvi cwb Avmvi mw‡_ mv‡_B Giv gvB‡MU K‡i wbKUeZx avb †¶Z, cvU †¶Z, cvebfwgi †Svc-Svo GjvKvq hvq Ges †mLv‡b gwU‡Z †MvjvKvi MZ K‡i Zv‡Z wWg Qv‡o|
- wWg †`qvi 18-20 N›Uv ci wWg d‡U ev"Pv †ei nq|

c‡Yw`Z cRbb

- Bb‡RKk‡bi AšZt 6 N›Uv c‡e e"W gvQ n¨vPwi‡Z G‡b wmóv‡b †i‡L cwbi †dvqvi w`‡Z n‡e|
- ni‡gvb †WvR t

• bvmwi cK‡i 25-30 w`b cwZcvj‡bi ci †cvbv Pv‡li cK‡i Qvovi Dch³ n‡e|	¯x: 2 wgMv. Ifwcg/mwcg ev 80-100 wgM.v wcwR/†KwR ci“l: 1 wgMv. Ifwcg/mwcg ev 30-40 wgMv. wcwR/†KwR • ci“l I ¯x gvQ‡K 1t1 Abcv‡Z nvcvq ivL‡Z nq|
gv¸i gv‡Qi †cvbv cwZcvjb †cvbv cwZcvjb • gv¸i gv‡Qi bvmwi cK‡ii AvqZb 25-30 kZvsk Ges MfxiZv 1-1.5 wgUvi n‡j fvj nq| • bvmwi cKi c¯Z Kivi ci kZvsk cwZ 5-7 w`b eq‡mi 8-10 nvRvi †cvbv gR` Kiv †h‡Z cv‡i| • mvc, e¨vO, KxU-cZ½ †iv‡a cK‡ii Pvicv‡k 1 wg. D”PZvq bvBjb †bU ¯vcb Ki‡Z n‡e| • c_g 25 w`b †cvbvi †`n IR‡bi wØ¸b nv‡i 20-25% Awglh³ ewYwR¨K bvmvix Lvevi w`‡Z n‡e| • bvmwi‡Z †cvbv‡K c_g 2-3 w`b wUDwe‡d· mieivn K‡i, cieZx‡Z ax‡i ax‡i ewYwR¨K Lvev‡i Af¨¯— Ki‡Z n‡e| • eivÏKZ Lv`¨ w`‡b 2-3 ev‡i c‡qvM Ki‡Z n‡e| • bvmwi cK‡i 25-30 w`b cwZcvj‡bi ci †cvbv Pv‡li cK‡i Qvovi Dch³ n‡e|	wks gv‡Qi cRbb cvKwZK cRbb • wks gvQ c_g eQ‡iB cwic°Zv jvf K‡i| • cRb‡bi mg‡q elvi cwb Avmvi mw‡_ mv‡_B Giv gvB‡MU K‡i wbKUeZx avb †¶Z, cvU †¶Z, cvebfwgi †Svc-Svo GjvKvq hvq Ges †mLv‡b gwU‡Z †MvjvKvi MZ K‡i Zv‡Z wWg Qv‡o| • wWg †`qvi 18-20 N›Uv ci wWg d‡U ev”Pv †ei nq| c‡Ywi`Z cRbb • cRbb FZi 3-4 gvm c‡e cvKwZK/ Dch³ Drm †_‡K e“W msMn K‡i cwZcvjb Ki‡Z n‡e| • Bb‡RKk‡bi AšZt 6 N›Uv c‡e e“W gvQ n¨vPwi‡Z G‡b wmóv‡b †i‡L cwbi †dvqviv w`‡Z n‡e| • ni‡gvb †WvR t ¯x: 2 wgMv. Ifwcg/mwcg ev 60-70 wgMv. wcwR/†KwR ci“l: 1 wgMv. Ifwcg/mwcg ev 30-35 wgMv. wcwR/†KwR
evUv gv‡Qi c‡Ywi`Z cRbb I †cvbv Drcv`b • Bb‡RKk‡bi AšZ t 6 N›Uv c‡e e“W gvQ n¨vPwi‡Z G‡b wmóv‡b †i‡L cwbi †dvqviv w`‡Z n‡e| • ni‡gvb †WvR t ¯x: 4-6 wgMv. wcwR/†KwR; ci“l: 1-2 wgMv. wcwR/†KwR †cvbv cwZcvjb • gR` NbZ: 10-15 nvRvi/kZK (5-7 w`b eq‡mi) • c_g 5 w`b †`n IR‡bi wØ¸b nv‡i Ges cieZx 5 w`b Aši Aši ‡cvbvi †`n IR‡bi h_vµ‡g 15, 10 I 5% nv‡i Lvevi w`‡Z nq| • eivÏKZ Lvevi w`‡b 2-3 ev‡i c‡qvM Ki‡Z n‡e| • bvmwi cK‡i 25-30 w`b †cvbv cwZcvj‡bi ci Pv‡li cK‡i Qvovi Dch³ nq|	‡`kx micwU gv‡Qi c‡Ywi`Z cRbb I ‡cvbv Drcv`b • Bb‡RKk‡bi AšZ t 6 N›Uv c‡e e“W gvQ n¨vPwi‡Z G‡b wmóv‡b †i‡L cwbi †dvqviv w`‡Z n‡e| • ni‡gvb †WvR t ¯x: 6-7 wgMv. wcwR/†KwR; ci“l: 2 wgMv. wcwR/†KwR †cvbv cwZcvjb • gR` NbZ: 10-15 nvRvi/kZK (5-7 w`b eq‡mi) • c_g 5 w`b †`n IR‡bi wØ¸b nv‡i Ges cieZx 5 w`b Aši Aši ‡cvbvi †`n IR‡bi h_vµ‡g 15, 10 I 5% nv‡i Lvevi w`‡Z nq| • eivÏKZ Lvevi w`‡b 2-3 ev‡i c‡qvM Ki‡Z n‡e| • bvmwi cK‡i 25-30 w`b †cvbv cwZcvj‡bi ci Pv‡li cK‡i Qvovi Dch³ nq|

cve`v I ¸jkvÛi c‡Yw`Z cRbb I †cvbv Drcv`b

c‡Yw`Z cRbb

cRwZ	1g †WvR	2q †WvR
cve`v	¯x: 3-4 wgMv. wcwR/†KwR cs: 4-6wgMv. wcwR/†KwR	¯x: 12-16 wgMv.wcwR/†KwR cs: 6-8wgMv wcwR/†KwR
¸jkv	¯x:8-12 wgMv. wcwR/†KwR cs: 4-6wgMv. wcwR/†KwR	

†cvbv cwZcvjb

- gR` NbZ: 3-4 nvRvi/kZK (8-10 w`b eq‡mi)
- †cvbv Qvovi ci †`n IR‡bi 12-15% nv‡i m¤úiK Lvevi (40% Pv‡ji Kov, 30% mwilvi ˆLj I 30% wdkwgj) ev ewYwR¨K Lvevi c`vb Ki‡Z n‡e|
- bvmvwi cK‡i 25-30 w`b cwZcvj‡bi ci ‡cvbv Pv‡li cK‡i Qvovi Dch³ nq|

Pv‡li cK‡i gjv I cwUi cvKwZK cRbb

e“W msMn: cvKwZK Drm¨ A_ev cKi n‡Z gjv I cwU gv‡Qi e“W msMn Kiv hvq|

e“W cwienb: Aw·‡Rb e¨v‡M 200 wU e“W| cwZ‡j 30 wjUvi cwb‡Z 1 c¨v‡KU Iim¨vjvBb Gi 1/4 fvM wgwk‡q 150-170 wU e“W|

gR` NbZ: Kvc wgk Pv‡li cK‡i cwZ kZvs‡k 100 wU (50 wU gjv I 50 wU cwU) gR` Ki‡Z nq|

esk ew×‡Z KiYxq: cK‡ii cv‡o wbqwšZ gvÎvq RjR AvMvQv (Kjwg, †n‡jÂv, gvjÂ BZ¨w`) ivL‡Z n‡e|

- e“W gR‡`i 15-30 w`‡bi g‡a¨ Giv RjR AvMvQvq cvKwZKfv‡e cRbb K‡i|
- G Ae¯vq cK‡i †Kvbfv‡eB Rvj Uvbv hv‡e bv|
- †cvbv‡K Lv`¨ wnmv‡e Pv‡ji wgwn Kov ïKbv Ae¯vq cK‡ii Dcwifv‡M wQwU‡q w`‡Z n‡e|

`jxq Awa‡ekb cwiKíbv

wW`b t02 mgq t 11.15-12.15 †gqv`Kvj t 60 wgwbU

wk‡ivbvg	t	†QvU gv‡Qi †cvbv msMn,cwienb I †kvab
Afxó `j	t	grm¨ Awa`ß‡ii KgKZve›`
j¶¨	t	cwk¶Yv_x‡`i cvKwZK Drm/n¨vPwi n‡Z †cvbv msMn I cwienY m¤ú‡K we¯wiZ avivYv t`qv n‡e hv‡Z Zviv AwRZ Ávb Kv‡R jwM‡q ¸YMZ gvbm¤úb †cvbv msMn I mwVKfv‡e cwien‡Yi t¶‡Î Pvlx‡`i c‡qvRbxq mnvqZv c`vb Ki‡Z cv‡ib|
D‡Ïk¨	t	G Awa‡ekb †k‡l cwk¶Yv_xMY - • cvKwZK Drm¨ ev n¨vPwi n‡Z ¸YMZgvb m¤úb †cvbv cwien‡Yi c‡e KiYxq welqmgn e¨vL¨v Ki‡Z cvi‡eb| • †cvbvi †UKmB c×wZ m¤ú‡K ej‡Z cvi‡eb| • †cvbv cwienY c×wZ I mZKZv m¤ú‡K ej‡Z cvi‡eb| • †cvbv †kvab I gR` m¤ú‡K ej‡Z cvi‡eb|

welqmwP	Av‡jvP¨ welq	cwk¶Y †KŠkj	mgq
fwgKv			4 wgwbU
	• ¯vMZ • ceeZx Awa‡ek‡bi mv‡_ ms‡hvM ¯vcb • eZgvb Awa‡ek‡bi Dci Av‡jvKcvZ • D‡Ïk¨ e¨vL¨v • DØ×KiY	e³Zv	
welqe¯			50 wgwbU
	1. bvmvix n‡Z †cvbv cwien‡Yi c‡e KiYxq t • Rvj †U‡b †cvbvi AvKvi I ¯v¯¨ ch‡e¶Y • gR` Dc‡hvMx †cvbv gvQ †MwWs K‡i h_vm¤e GKB AvKvi I lR‡bi †cvbv msMn • †cvbvi †cU Lwj K‡i †bqv 2. †cvbv †UKmB c×wZ t • mvKjvi U¨vs‡Ki mwea v_vK‡j G‡Z †cvbv †i‡L chwß cwb cevn w`‡q b¨bZg 6 N›Uv ivLv A_ev • cZ¨wkZ AvKv‡ii †cvbv evQvB K‡i bvmvix cK‡iB eo nvcv ¯vcb K‡i G‡Z evQvBKZ †cwbv¸‡jv †i‡L Rv‡ji ^`N¨ eivei cv‡¤úi mvnv‡h¨ cK‡ii cwb 5/6 N›Uv cevn †`qv 3. †cvbv cwienY c×wZ t • mbvZb c×wZ • AvaywbK c×wZ • Ab¨vb¨ AvaywbK c×wZ	e³Zv I c‡kvËi e³Zv I c‡kvËi e³Zv I c‡kvËi e³Zv I c‡kvËi	10 wgwbU 10 wgwbU 20 wgwbU

welqmwP	Av‡jvP¨ welq	cwk¶Y †KŠkj	mgq
	4. †cvbv cwien‡Y mZKZv t • cwien‡Yi c‡e †cvbvi †cU Lwj K‡i †bqv • GKB AvKv‡ii †cvbv cwienY Kiv • `ej †cvbv cwienY bv Kiv • cwjw_b e¨v‡M †cvbv cwienY DËg 5. †cvbv †kvab I gR` t	e³Zv I c‡kvËi	5 wgwbU 5 wgwbU
mvi-ms‡¶c			6 wgwbU
	1. gj welqmgn ms‡¶‡c cbiv‡jvPbv 2. c‡kvËi‡ii gva¨‡g D‡Ïk¨ hvPvB- • bvmvix n‡Z †cvbv msM‡ni c‡e we‡eP¨ welq Kx Kx ? • mvKjvi U¨vsK bv _vK‡j Kx c×wZ‡Z ‡cvbv †UKmB Kiv hvq ? • †cvbv †kva‡bi `wU c‡qvRbxqZv ejb 3. n¨vÛ AvDU weZiY 4. cieZx Awa‡ek‡bi mv‡_ ms‡hvM ¯vcb- mlg m¤úiK Lv`¨ c‡qvM|	c‡kvËi	
cwk¶Y mnvqK mvgMx t gvKvi, wdc PvU, n¨vÛ AvDU, BZ¨w`			

†QvU gv‡Qi †cvbv msMn, cwienY I †kvab

†QvU gv‡Qi †cvbv cwienb i“B RvZxq †cvbv cwien‡bi gZ n‡jI GKU wfbZv i‡q‡Q| ‡QvU gv‡Qi g‡a¨ ^K, wks gv¸i, cve`v, ¸jkv BZ¨w` gvQ KvUvh³ nIqvq eo AvKv‡ii †cvbv Aw·‡Rb e¨v‡M cwien‡Yi †¶‡Î we‡klmZKZv Aej¤b Ki‡Z nq| wks gv¸I, cve`v, ¸jkv BZ¨w`i †QvU †cvbv Aw·‡Rb e¨v‡M cwienY KivB DËg|

‰K, wks I gv¸i gv‡Qi †cvbv bvmwi cK‡i 25-35 w`b cwZcvj‡bi ci hLb †cvbv¸‡jv 2.5- 3 †mwg. AvKv‡ii nq ZLb gR` cK‡i ¯vbvši Ki‡Z nq| Drm¯j t_‡K gR` cK‡ii `iZ hZKg nq †cvbvi gZ¨ nvi ZZ Kg nq| †ekx `i‡Z cwien‡Yi †¶‡Î gZ¨ nvi †ekx nq| †h †Kvb Drm t_‡K msMn I cwien‡Yi †¶‡Î wewfb c×wZ Aej¤b Kiv hvq| c×wZmgn wbgi¡c t

1) mbvZb c×wZ t G c×wZwU mbvZb n‡jI †ewki fvM †¶‡ÎB †cvbv cwin‡b GB c×wZ AbmiY Kiv nq| Z‡e †iY (Spawn) cwien‡Yi †¶‡Î G c×wZi e¨envi LeB Kg| G c×wZ‡Z G¨vjwgwbqv‡gi cwZj ev Wv‡gi gva¨‡g †cvbv cwienb Ki‡Z nq| †cvbv cwien‡bi c‡e Aek¨B †cvbv †UKmB K‡i wb‡Z n‡e| †UKmB Ki‡Yi ci †cvbv cwienY Dc‡hvMx n‡j cwigvY gZ bjKc/b`x/ cK‡ii cwi¯vi VvÛv cwb wb‡Z n‡e| G c×wZ‡Z mvaviYZ: 20-30wU †cvbv/wjUvi Nb‡Z cwienY Kiv hvq|

gvV chv‡q G c×wZ‡Z †cvbv cwien‡bi nvi wbgi“c (6-8 N›Uvi åg‡b) t

cwZ‡ji gva¨‡g

- ‰K gvQ - 1,000-1,500wU (8-12 wj: cwb)
- wks I gv¸i- 1,000-2,000wU (8-12 wj: cwb)
- cve`v I ¸jkv 1,000-1,600 wU (8-12 wj: cwb)

Wv‡gi gva¨‡g

- ‰K- Mo IRb 0.2- 0.3 Mvg n‡j 7-8 nvRvi cwZ Wv‡g|
- ^K Mo IRb 0.4-0.5 Mvg n‡j 5-6 nvRvi cwZ Wv‡g|
- wks I gv¸i- 4,000- 6,000 wU cwZ Wv‡g|

D‡jL‡hvM¨ wks Ges gv¸i gv‡Qi †cvbv Wv‡g/cwZ‡j cwienY bv KivB fvj| KviY `Û ‡Uv gvQB Zj‡`kx| d‡j e‡K Nmv †j‡M ¶Z mwó nq Ges c‡i †cvbv Bb‡dKkb nIqvi Kvi‡Y gviv hvq|

G c×wZ‡Z †cvbv cwienY Kv‡j cwZj/ Wv‡g gL †fRv cvZjv Kvco ev gkvixi Rvj w`‡q †X‡K ivL‡Z nq| G‡¶‡Î cwZj/Wv‡gi cwb‡Z nvZ w`‡q ev SwK‡q evZv‡mi Aw·‡Rb wgkv‡Z nq Ges 4/5 N›Uv ci ci cwb e`jv‡Z nq| †cvbv cwienYKv‡j j¶¨ ivL‡Z n‡e †hb Wvg/cwZ‡ji cwb AZ¨waK Mig bv nq|

2) AvaywbK c×wZ t

G c×wZ‡Z cwjw_b e¨v‡M cwb Ges Aw·‡Rb mn †cvbv‡K c¨v‡KU K‡i cwienY Kiv nq| mvaviYZt eZgv‡b gvV chv‡q 66 †mwg. x 46 ‡mwg. AvKv‡ii cwjw_b e¨v‡M †cvbv cwienY Kiv nq| cwZwU c¨v‡K‡U 2wU K‡i cwjw_b e¨vM e¨envi KivB DËg| †Kvb Kvi‡Y hw` GKwU e¨vM wQ` n‡q hvq Z‡e wØZxqwU cwb, Aw·‡Rb I †cvbv i¶v Ki‡Z mvnvh¨ Ki‡e|

‡cvbv c¨wKs Kivi mgq mgvb AvKv‡ii `BwU cwjw_b e¨vM wb‡q GKwU Ab¨wUi wfZi XwK‡q Zvi 1/3 Ask cwb Øviv fwZ Ki‡Z n‡e Ges e¨v‡Mi Dc‡ii Ask GK nvZ w`‡q AvUwK‡q Ges Ab¨ nvZ w`‡q e¨vMwU‡K Dwë‡q cwë‡q †`L‡Z n‡e †Kvb wQ` c‡_ cwb †ewi‡q hvq wKbv| wQ`h³ cwjw_b e¨vM cvIqv †M‡j Zv cwieZb Ki‡Z n‡e|

wb‡gi wbqg Abmv‡i cwjw_b e¨v‡M c¨v‡KU K‡i †cvbv cwienb Kiv DËg-

e¨v‡Mi AvKvi	†cvbvi cRwZ	`iZ	eqm	cwigvY
	‰K	15-18 N›Uv	20-21 w`b	250-300 Mvg
	wks	15-18 N›Uv	30-40 w`b	300-400 Mvg
	gv¸i	15-18 N›Uv	25-30 w`b	300-400 Mvg
	^K/wks/gv¸i	4-6 N›Uv	20-25 w`b	1.0-1.5 †KwR
	cve`v/¸jkv	15-18 N›Uv	25-30 w`b	250-300 Mvg
	gjv/cwUeæW	4-6 N›Uv	-	250-350wU

cwjw_‡bi e¨v‡Mi 1/3 As‡k cwb f‡i Zv‡Z c‡qvRbxq cwigvb †cvbv †i‡L cwjw_‡bi evKx As‡k Aw·‡Rb Øviv cY K‡i mZwj / ivevi e¨vÛ w`‡q fvj fv‡e †e‡a wb‡Z n‡e hv‡Z Aw·‡Rb †ewi‡q †h‡Z bv cv‡i| †cvbv cwien‡Yi Rb¨ cwbi Zvcgv Îv 22-27^0 †mjwmqvm Gi g‡a¨ ivLv DwPZ| cwbi Zvcgv Îv †ekx n‡j Aw·‡Rb avi Y ¶gZv K‡g hvq|

cwienYKv‡j cwjw_b e¨vM hv‡Z wQ` n‡Z bv cv‡i †m w`‡K we‡kl `wó ivL‡Z n‡e| m¤e n‡j cwjw_b e¨vM e¯vq f‡i cwienY Ki‡Z n‡e|

3) Ab¨vb¨ c×wZ

Dc‡iv³ c×wZ Qvovl wb‡gv³ c×wZ‡Z †cvbv cwienY Kiv hvq-

1. Bbm‡j‡UW U¨vs‡K G‡iU‡ii mvnv‡h¨ Aw·‡Rb mieiv‡ni gva¨‡g †cvbv cwienY Kiv hvq|
2. K¨vbfvm U¨vs‡Ki gva¨‡g wcK-Avc ev Ab¨ ‡Kvb Mvox e¨envi K‡i G‡iUi †mU K‡i †cvbv cwienY Kiv hvq|
3. AvRKvj f¨vb Mvox‡Z / †U¤ú‡Z †gvUv cwjw_b kxU w`‡q K¨vbfvm U¨vsK ^Zwi K‡il †cvbv cwienY Ki‡Z †`Lv hvq|

†cvbv cwien‡Y mZKZv

1. GKwU cwZ‡j ev Wv‡g /U¨vs‡K/e¨v‡M GKB AvKv‡ii †cvbv cwienY Kiv DwPZ|
2. †cvbv cwienY Kivi Av‡M †cvbv‡K †cU Lwij K‡i KwÛkwbs K‡i wb‡Z n‡e|
3. `ej †cvbv cwienY Kiv hv‡e bv|
4. cwienYKv‡j mivmwi bjK‡ci cwb e¨v‡M/cwZ‡j/Wv‡g/U¨vs‡K †`qv DwPZ bq| G‡Z †cvbv gviv †h‡Z cv‡i|
5. c‡qvRb n‡j GKB Zvcgv Îvi fvj cwb w`‡q e¨v‡Mi ev cwienY cv‡Îi cwb e`jv‡bv †h‡Z cv‡i|
6. wks l gv¸i gv‡Qi †cvbv Wvg /cwZ‡j cwienYKv‡j †c‡Ui w`K t_‡K Nlv †L‡q ¶Z mwó nq| ZvB G¸‡jv‡K e¨v‡M cwienY KivB fvj| e¨v‡M cwienY K‡i †cvbvw‡K Aek¨B †kvab K‡i cK‡i Qvo‡Z n‡e Ges Kg cwigvY †cvbv GK mv‡_ cwienY Ki‡Z n‡e|
7. ‡jvnvi /‡cbkx‡Ui Wv‡gi cwie‡Z cwóK Wv‡g †cvbv cwienY KivB fvj| Zv‡Z ¶wZ Kg nq|

‡cvbv †kvab l cwZ‡laK wPwKrmv

†cvbv cwienY K‡i Lvgv‡i †blqvi ci cK‡i Qvovi c‡e †cvbv †kvab K‡i wb‡Z n‡e Ges G‡Z †cvbv m¯ _vK‡e Ges †ivM evjvB Gi m¤vebv K‡g hv‡e| †cvbv wbgi¡cfv‡e †kvab Kiv hv‡e -

1. GKwU evjwZ‡Z 10 wjUvi cwb wb‡q Gi g‡a¨ 200 Mvg Lvevi jeb A_ev 1 Pv PvgP Wv³vix cUvk ($KMnO_4$) wgkv‡Z n‡e|

2. AZ:ci evjwZi Dci GKwU Nb Rvj †i‡L Zvi g‡a¨ cwZevi 200-300wU †cvbv Qvo‡Z n‡e|
3. Zvici Rvj a‡i †cvbv¸‡jv‡K evjwZi cwb‡Z 30 ‡m‡KÛ †Mvmj Kiv‡Z n‡e |
4. Gfv‡e GKevi ^Zwi Kiv jeY/ cUv‡ki cwb‡Z 5-7 evi †kvab Kiv hv‡e|

Wv³vix cUvk ev jeY cwb w`‡q †cvbv †kvab Qvovl GwU›Uev‡qvwUK w`‡q †cvbv‡K cK‡i Qvovi mv‡_ mv‡_B †ivMg³ ev †ivM cwZ‡iva e¨e¯v MnY Kiv hvq, †hgb-

1. cK‡i †cvbv Qvovi ci Mvg c‡RwUf, Mvg †b‡MwUf e¨K‡Uwiqv, fvBivm, d¨vsMvm, G¨vjwR I †cvU‡RvqvRwbZ gvivZK ¶wZKi †ivMRxevb¸‡jv‡K cwZ‡iva I wbgj Kivi Rb¨ Oxyseytin, Lenocide BZ¨w` e¨envi Ki‡j fvj dj cvlqv hvq| GQvovl evRv‡i wewfb †Kv¤úvbxi wewfb ai‡bi †ivM cwZ‡iva Ki‡Z cv‡i Ggb Jla cvlqv hvq|

Lenocide (Zij)	5 wgwj/kZK/2-3 dU MfxiZv
Oxyseytin 20% (cvDWvi)	10 Mvg cwigvY Jla cwZ 100 †KwR Lvev‡i wgwk‡q 10 w`b chš Lvlqv‡Z n‡e|
Renamycin (cvDWvi)	cwZ 10 †KwR Lvev‡i 1 Pv PvgP cwigvb Jla Lvev‡i wgwk‡q 5-7 w`b Lvlqv‡Z n‡e|

wdc PvU cwiKíbv

†QvU gv‡Qi †cvbv msMn, cwienY I †kvab	†cvbv cwienb c×wZ (Pjgvb) 3) Ab¨vb¨ c×wZ : Dc‡iv³ c×wZ Qvovl wb‡gv³ c×wZ‡Z †cvbv cwienY Kiv hvq- • Bbm‡j‡UW U¨vs‡K G‡iU‡ii mvnv‡h¨ Aw·‡Rb mieiv‡ni gva¨‡g †cvbv cwienY Kiv hvq| • K¨vbfvm U¨vs‡Ki gva¨‡g wcK-Avc ev Ab¨ ‡Kvb Mvox e¨envi K‡i G‡iUi †mU K‡i †cvbv cwienY Kiv hvq| • AvRKvj f¨vb Mvox‡Z / †U¤ú‡Z †gvUv cwj_b kxU w`‡q K¨vbfvm U¨vsK ˆZwi K‡il †cvbv cwienY Ki‡Z †`Lv hvq|
†cvbv cwienb c×wZ (Pjgvb) 1| mbvZb c×wZt gvV chv‡q G c×wZ‡Z †cvbv cwien‡bi (6-8 N›Uv åg‡b) nvi wbgi¡c t cwZ‡ji gva¨‡g • ˆK: 1,000- 1,500wU (8-12 wjt cwb‡Z) • wks I gv¸i: 1,000-2,000wU (8-12 wjt cwb‡Z) • cve`v I ¸jkv: 1,000-1,600 wU (8-12 wj: cwb‡Z) Wv‡gi gva¨‡g • ˆK: 0.2- 0.3 Mvg Mo IRb 7,000-8,000 wU ‰K 0.4-0.5 Mvg Mo IRb 5,000-6,000 wU wks I gv¸i- 4,000- 6,000 wU	†cvbv cwien‡Y mZKZvt • cwZ‡j/e¨v‡M GKB AvKv‡ii †cvbv cwienY Kiv DwPZ| • cwienY Kivi Av‡M KwÛkwbs K‡i wb‡Z n‡e| • `ej †cvbv cwienY Kiv hv‡e bv| • bjK‡ci cwb e¨v‡M/ cwZ‡j/ Wv‡g mivmwi †`qv DwPZ bq| • c‡qvRb n‡j fvj cwb w`‡q e¨v‡Mi ev cwienY cv‡Îi cwb e`jv‡bv †h‡Z cv‡i| • wks I gv¸i gv‡Qi †cvbv Wvg /cwZ‡j cwienYKv‡j †c‡Ui w`K t_‡K Nlv †L‡q ¶Z mwó nq| ZvB G¸‡jv‡K e¨v‡M cwienY KivB fvj | • †jvnvi/‡cbkx‡Ui Wv‡gi cwie‡Z cwóK Wv‡g †cvbv cwienY KivB fvj|

†cvbv cwienb c×wZ (Pjgvb)

2) Avavwb K c×wZ

- G c×wZ‡Z cwjw_b e¨v‡M cwb Ges Aw·‡Rbmn †cvbv‡K c¨v‡K‡R K‡i cwienb Kiv nq|
- wb‡gi wbqg Abmv‡i cwjw_b e¨v‡M †cvbv c¨v‡KU K‡i cwienb Kiv DËg-

e¨v‡Mi AwKvi	†cvbvi cRwZ	`iZ (N›Uv)	eqm (w`b)	cwigvY (Mvg) ‡KwR/wU
66 × 46 †m. wg.	ˆK	15-18	20-21	250-300
	wks	15-18	30-40	300-400
	gv¸i	15-18	25-30	300-400
	ˆK/wks/gv¸i	4-6	20-25	1.0-1.5 †KwR
	cve`w/¸jkv	15-18	25-30	250-300 Mvg
	gjv/cwUeW	4-6	-	250-350wU

‡cvbv †kvab I cwZ‡laK wPwKrmv t

†cvbv wbgi¡‡c †kvab Kiv hvq-

1. 10 wjUvi cwb‡Z 100 Mvg jeb A_ev 1 Pv PvgP Wv³vix cUvk ($KMnO_4$) wgkv‡Z n‡e|
2. AZ:ci evjwZi Dci GKwU Nb Rvj †i‡L Zvi g‡a¨ cwZevi 200-300wU †cvbv 30 †m‡KÛ †Mvmj Kiv‡Z n‡e |

GQvovI †cvbv‡K cK‡i Qvovi ci Gw›Uev‡qvwUK w`‡q †ivM cwZ‡iva Kiv hvq|

Lenocide (Zij)	5 wgwj/kZK/2-3 dU MfxiZv
Oxyseytin 20% (cvDWvi)	10 Mvg cwigvb Jla cwZ 100 †KwR Lvev‡i wgwk‡q 10 w`b chš Lvlqv‡Z n‡e|
Renamycin (cvDWvi)	cwZ 10 †KwR Lvev‡i 1 Pv PvgP cwigvb Jla Lvev‡i wgwk‡q 5-7 w`b Lvlqv‡Z n‡e|

Awa‡ekb cwiKíbv

w`b t 2 | mgq t 12:15-13:15 | †gqv`Kvj t 60 wgwbU

wk‡ivbvg	t gjv I cwUi PvI e¨e¯vcbv|
Afxó `j	t grm¨ wefvMxq I Ab¨vb¨ `ß‡ii KgKZ©ve›`|
j¶¨	t AskMnYKvix‡`i †QvU gvQ we‡kl K‡i gjv I cwUi GKK I i“B RvZxq gv‡Qi mv‡_ wgk PvI c×wZ m¤ú‡K wk¶v †`qv n‡e hv‡Z Zviv AwRZ Ávb‡bi Av‡jv‡K mswkó‡`i †QvU gvQ PvI wel‡q c‡qvRbxq civgk c`vb Ki‡Z cv‡ib|
D‡Ïk¨	G Awa‡ekb †k‡l cwk¶Yv_xMY - • gjv I cwU gvQ Pv‡li ¸i“Z I Dc‡hvMxZv m¤ú‡K ej‡Z cvi‡eb; • i“B RvZxq gv‡Qi mv‡_ wgkPv‡li c‡qvRbxqZv e¨vL¨v Ki‡Z cvi‡eb; • gjv/cwUi GKK I i“B RvZxq gv‡Qi mv‡_ wgk Pv‡l cKi wbevPb, cKi c¯Z, †cvbv gR` I gR` cieZx e¨e¯vcbv m¤ú‡K ej‡Z cvi‡eb; • gvQ AvniY, evRviRvZKiY I gv‡Qi †ivM-evjvB m¤ú‡K ej‡Z cvi‡eb| • gjv I cwU gv‡Qi GKK I wgk Pv‡li jvf-¶wZi wnmve Ki‡Z cvi‡eb|

welqmwP	Av‡jvP¨ welq	cwk¶Y c×wZ	mgq
fwgKv			3 wgwbU
	• ¯vMZg • ceeZx Awa‡ek‡bi mv‡_ ms‡hvM ¯vcb (cavb wk¶Yxq welqmgn) • eZgvb Awa‡ek‡bi Dci Av‡jvKcvZ (wk‡ivbvg I D‡Ïk¨mgn) • DØ×KiY (Awa‡ek‡bi ¸i“Z)	e³Zv I c‡kvËi	
welqe¯			52 wgwbU
	• i“B RvZxq gv‡Qi mv‡_ gjv-cwUi wgk Pv‡li c‡qvRbxqZv; • gjv-cwUi PvI e¨e¯vcbv- GKK PvI I wgk PvI • gR` cieZx e¨e¯vcbv • Avq-e¨q wnmve • gv‡Qi †ivM-evjvB	e³Zv I c‡kvËi	
mvi-ms‡¶c			5 wgwbU
	• gj wel‡qi cbiv‡jvPbv (cavb wk¶bxq welqmgn) • D‡Ïk¨ hvPvB I fj ms‡kvab • n¨vÛ AvDU weZiY • cieZx Awa‡ek‡bi mv‡_ ms‡hvM ¯vcb • ab¨ev` Ávcb	c‡kvËi	
cwk¶Y mnvqK mvgMx t †evW gvKvi, wdcPvU, n¨vÛ AvDU BZ¨vw`|			

gjv I cwUi Pvl e¨e¯vcbv

Pv‡li ¸i“Z

gjv-cwU AZ¨š m¯v` Ges cwómg× gvQ| Gme gv‡Q cPi cwigv‡Y Awgl, K¨vjwmqvg, Avqib I wfUwgb i‡q‡Q| gjv-cwU gvQ wej nvli-evlo, b`x, avb †¶Z, cKi I †Wvevq cvlqv hvq| cwšK grm¨ Pvlxiv cKi-‡Wvev I Ab¨vb¨ Rjvk‡q mvaviYZt i“B RvZxq gvQ Pvl K‡i _v‡Kb| Zviv gjv-cwU RvZxq †QvU gvQ‡K AewÂZ gvQ wn‡m‡e we‡ePbv K‡i _v‡K| A_P GLb chš MvgxY Rb‡Mvôxi AwaKvskB cwYR Awg‡li Rb¨ wbfi K‡i Lvj we‡ji gjv-cwUmn Ab¨vb¨ †QvU gv‡Qi Dci| G Kvi‡Y cKi †Wvevq Gme †QvU gvQ Pv‡li D‡`¨vM MnY Kiv c‡qvRb|

evrmwiK I ‡gŠmgx Dfq cKvi cKi-Rjvk‡q i“B RvZxq gv‡Qi mv‡_ gjv-cwU GK‡Î Pvl K‡i `wi` Rb‡Mvôx mn‡RB A_ I cwó `BÛB jvf Ki‡Z cv‡i| gjv-cwU eQ‡i 2-3 evi cvKwZKfv‡e wWg †`q| G Kvi‡Y †cvbv †Kbvi Rb¨ evowZ cwRi `iKvi nq bv| Gme gvQ Aí mg‡q AvniY Kiv hvq| h_vh_ chw³ e¨env‡ii gva¨‡g Pvl Kiv n‡j cK‡i i“B RvZxq gv‡Qi Drcv`b wVK †i‡L gjv-cwU gv‡Qi evowZ Drcv`b cvlqv hvq| gjv-cwU gvQ wKQw`b ci ci cKi †_‡K a‡i cwiev‡ii c‡qvRbxq gv‡Qi Pwn`v ciY Kiv hvq| Gme gvQ A‡c¶vKZ Kg Aw·‡Rbh³ I †Nvjv cwb‡Z Pvl Kiv m¤e|

gjv I cwU gvQ Pv‡li Dc‡hvMxZv

- evRv‡i gjv I cwU gv‡Qi Pwn`v †ewk ZvB i“B RvZxq gv‡Qi mv_x dmj wnmv‡e G‡`i Pvl jvfRbK|
- gjv I cwU gvQ †QvU-eo me ai‡Yi cKi-Rjvk‡q Pvl Kiv m¤e|
- cKi-b`x‡Z G gvQ eQ‡i `Ûevi wWg †`q e‡j G‡`i †cvbv gR‡`i c‡qvRb nq bv|
- 15-20 w`b ci ci cKi †_‡K gjv gvQ a‡i cwiev‡ii gv‡Qi Pwn`v ciY Kiv hvq|
- cwU gv‡Qi P¨vcv ïUKx Mv‡gi me¯‡ii gvb‡li wcq Lvevi|
- cK‡i i“B RvZxq gv‡Qi Drcv`b wVK †i‡LI gjv I cwU gv‡Qi evowZ Drcv`b cvlqv m¤e|

gjv I cwUi Pvl e¨e¯vcbv

gjv I cwUi GKK ev wgk Pvl Kiv hvq| wb‡g GKK I wgk Pvl c×wZ eYbv Kiv n‡jv|

1| gjv I cwUi GKK Pvl

cKi wbevPb

- gjv ev cwU gv‡Qi GKK Pv‡li Rb¨ evrmwiK ev ‡gŠmgx cKi wbevPb Kiv ‡h‡Z cv‡i |
- cK‡ii AvqZb 10-15 kZK Ges MfxiZv 1.0-1.5 wgUvi _vKv Avek¨K|
- cKi cv‡o eo MvQcvjv bv _vKv evÂbxq|
- c‡qvR‡b cwb mieiv‡ni e¨e¯v _vKv, G‡Z cwic° gv‡Qi cRbb NUv‡bv mnRZi nq|
- AvqvZvKvi cKi †hLv‡b chvß mhv‡jvK I Aeva evZvm PjvP‡ji e¨e¯v Av‡Q|

cKi c¯wZ

- evi evi Nb dv‡mi Rvj †U‡b iv¶‡m gvQ `i Ki‡Z n‡e| cKi ïwK‡qI iv¶‡m gvQ `i Kiv hvq|
- cwZ kZ‡K 1.0-1.5 †KwR nv‡i Pb c‡qvM Ki‡Z n‡e|
- cwZ kZ‡K 5-7 †KwR nv‡i †Mvei w`‡Z n‡e| cwbi is meRvf n‡j †cvbv Qvo‡Z n‡e|

†cvbv gR`

- gjv ev cwU gvQ AZ¨š bvRK weavq cwien‡b we‡kl mZKZv Aej¤b Ki‡Z nq| mKv‡j ev weKv‡j Kg Zvcgv‡Îvq gvQ cwienb Kiv fv‡jv|
- eo AvKv‡ii (5-7 †mwg.) cwic° gjv ev cwU gvQ †Q‡o G gv‡Qi GKK Pvl Kiv †h‡Z cv‡i|
- Gwcj-‡g gv‡m gjv I cwU gvQ wWg Qv‡o| G mgq cvKwZK Drm †hgb- Lvj-wej ev eo cKi n‡Z gjv-cwUi e“W msMn K‡i Pv‡li cK‡i gR` Ki‡Z n‡e|
- cwZ kZ‡K 400 wU gjv ev cwU gvQ gR` Ki‡Z nq|

m¤úiK Lv`¨ c‡qvM c×wZ

- gvQ Qvovi ciw`b n‡Z m¤úiK Lv`¨ c‡qvM Ki‡Z n‡e|
- gv‡Qi †`‡ni †gvU lR‡bi 5% nv‡i Pv‡ji Kov/M‡gi fwl (80%) I mwilvi ˆLj (20%) Gi wgkY ˆZwi K‡i cK‡i wQwU‡q c‡qvM Ki‡Z n‡e|
- cwZ gv‡m gv‡Qi bgbvqb K‡i Lv‡`¨i cwigvY wbavib Ki‡Z n‡e|

mvi c‡qvM

cK‡i cvKwZK Lv`¨ Drcv`‡bi Rb¨ 7 w`b Aši cwZ kZ‡K 5-6 †KwR †Mvei mvi w`‡j fvj dj cvlqv hvq| cK‡i Drcv`bkxjZv I FZ‡f‡` mvi c‡qv‡Mi nvi Kg †ewk n‡Z cv‡i|

gvQ AvniY

- gjv/ cwU gvQ gR` Kivi 1-2 gv‡mi g‡a¨ (Gwcj-‡g) cK‡i cvKwZK cRbb K‡i _v‡K| eQ‡i Giv 2 evi wWg ‡`q (†g I A‡±vei)| gvQ gR‡`i 2 gvm ci Nb dv‡mi Rvj †U‡b †cvbv aivi e¨e¯v wb‡Z n‡e| cwU gvQ aivi Rb¨ SwK Rvj e¨envi Ki‡Z n‡e| gvQ gR‡`i 2 gvm ci †_‡K cwZ 15 w`b ci ci gvQ AvniY Ki‡Z n‡e|
- Qq gvm ci cK‡ii cwb ïwK‡q mg¯ gvQ aiv †h‡Z cv‡i|

Drcv`b

gjv I cwU gv‡Qi 6 gv‡m Drcv`b h_vµ‡g cwZ GK‡i 1,200-1,500 I 1,500-2,000 †KwR|

2| i“B RvZxq gv‡Qi mv‡_ gjv I cwUi wgkPvl

cKi wbevPb

- ‡`vAvk I G‡Uj-†`vAvk gwUi cKi wgk Pv‡li Rb¨ fvj|
- wgk Pv‡li Rb¨ cK‡ii AvqZb 20 kZ‡Ki eo Ges cwbi Mo MfxiZv 5-7 dU _vKv DËg|
- cKi AvqvZvKvi n‡j e¨e¯vcbv mnR nq|
- cKi eb¨v g³ GjvKvq n‡Z n‡e|

cKi c¯wZ

- cKi cv‡oi †SvcSvo I eo MvQcvjv †Q‡U w`‡Z n‡e hv‡Z cK‡i chvß m‡h¨i Av‡jv co‡Z cv‡i|
- cK‡ii Zjvq AwZwi³ Kv`v (1 d‡Ui †ewk) _vK‡j Zv DwV‡q †dj‡Z n‡e|

- evi evi Nb dv‡mi Rvj †U‡b iv¶‡m gvQ a‡i †di‡Z n‡e|
- cwZ kZ‡K 1.0-1.5 †KwR nv‡i cv_‡i Pb c‡qvM Ki‡Z n‡e|
- cwZ kZ‡K 5-7 †KwR †Mvei, 200 Mvg BDwiqv I 100 Mvg wUGmwc mvi c‡qvM Ki‡Z n‡e|

†cvbv gR`

- cK‡i chvß cvKwZK Lv`¨ R‡b¥‡Q wKbv Zv wbwðZ n‡q †cvbv Qvo‡Z n‡e|
- ‰ekvL gv‡mi c_g mßv‡n gjv I cwU msMn K‡i gR` Ki‡Z n‡e| hv‡Z Giv gR` cK‡i wWg †Q‡o esk ew× Ki‡Z cv‡i|
- mviv eQi cwb _v‡K Ggb cK‡i gjv I cwU GKevi gR` Ki‡jB P‡j| Giv cK‡ii wKbvi †N‡I fvmgvb jZv-cvZvq wWg Qv‡o| ZvB cRb‡bi 20-25 w`b ci †cvbv¸‡jv SvK †e‡a fvm‡Z †`Lv hvq, G mgq Rvj Uvbv DwPZ bq| G‡Z †cvbv gv‡Qi ¶wZi AvksKv _v‡K|
- kZK cwZ †cvbvi gR` NbZ wbæi¡c-

gv‡Qi cRwZ	g‡Wj-1		g‡Wj-2	
	†cvbvi msL¨v	†cvbvi AvKvi (BwÂ)	†cvbvi msL¨v	†cvbvi AvKvi (BwÂ)
i“B	13	4-5	13	4-5
KvZjv	13	4-5	6	4-5
g‡Mj/Kwcl	14	4-5	13	4-5
wmjfvi Kvc	-	-	6	4-5
Mvm Kvc	-	-	2	4-5
gjv	100	-	100	-
cwU	100	-	100	-
me‡gvU	240	-	240	-

†cvbv Af¨¯KiY I gR`

- †cvbv cwien‡bi e¨vM/nwo c_‡gB 20-30 wgwbU cwb‡Z fwm‡q †i‡L Zvcgv Îvi mgZv Avb‡Z n‡e|
- Zvcgv Îv mgvb bv nIqv chš cv‡Î wKQ cwb cK‡i Ges cK‡ii wKQ cwb cv‡Î w`‡Z n‡e|
- Dfq cwbi Zvcgv Îv mgvb n‡j cv‡Îi gL cwb‡Z KvZ K‡i Wwe‡q cwbi †mvZ w`‡j †cvbv `j †e‡a †mv‡Zi wecixZ w`‡K ‡ewi‡q hv‡e|

AwZwi³ †cvbv gR‡`i Kdj

- gv‡Qi Lv`¨, Aw·‡Rb I Avevm¯‡ji NvUwZ nq|
- gv‡Qi ew× Avkvbi¡c nq bv|
- gvQ wewfb †ivM-evjvB‡q Avµvš nq|
- gvQ‡K mKv‡j Lwe †L‡Z †`Lv hvq Ges A‡bK mgq gvQ gviv hvq|
- Acwói Kvi‡Y gv‡Qi gv_v †gvUv I kixi wPKb n‡Z †`Lv hvq|
- mvi I Lvevi e¨envi Kivi cil Avkvbi¡c djb cvIqv hvq bv|

gR` cieZx e¨e¯vcbv

Lv`¨ c‡qvM

- cwZw`b cK‡i gvQ‡K evB‡i †_‡K Lvevi †`qv c‡qvRb|
- gvQ Qvovi c‡ii w`b n‡Z i“B RvZxq gv‡Qi lR‡bi 3-4% wnmv‡e Pv‡ji Kov/M‡gi fwl l mwilvi ^Lj 2t1 Abcv‡Z wgwk‡q cK‡i w`‡Z n‡e| gjv l cwUi Rb¨ evowZ Lvevi †`qvi c‡qvRb †bB|
- Mvm Kv‡ci Rb¨¨ Kjvcv‡Z ev big Nvm w`‡Z n‡e|

mvi c‡qvM

- cK‡i gv‡Qi cvKwZK Lv`¨ (cv¼Ub) Rb¥v‡bvi Rb¨ wbqwgZ mvi c‡qvM Kiv Avek¨K|
- †cvbv gR‡`i ci n‡Z cwbi is ch‡e¶Y K‡i 7-10 w`b ci ci cwZ kZ‡K 4-5 †KwR †Mvei mvi, 100 Mvg BDwiqv l 100 Mvg wUGmwc c‡qvM Ki‡Z n‡e|
- cvKwZK Lv‡`¨i cwigv‡Yi lci wfwË K‡i mv‡ii cwigvY Kg-‡ewk Kiv hv‡e|

gvQ AvniY l weµq

- gjv l cwU gvQ eQ‡i 2-3 evi wWg †`q| ZvB wWg Qvovi 10-15 w`b Aši gjv gv‡Qi AvswkK AvniY Ri“ix| AvswkK AvniY bv Ki‡j gv‡Qi NbZ †e‡o hvq l Lv‡`¨i Afve †`Lv w`‡Z cv‡i|
- †cvbv gR‡`i 6-7 gvm ci i“B RvZxq gv‡Qi Drcv`b ev evRvi `i †`‡L AvswkK AvniY K‡i evRviRvZ Kiv †h‡Z cv‡i|
- AvswkK AvniY Kiv cK‡i kZKiv 20 fv‡Mi AwaK nv‡i eo AvKv‡ii †cvbv gR` Ki‡Z n‡e|
- Kv‡ci mv‡_ gjv l cwUi Pvl K‡i Pwl ^`b`b Pwn`v wgwU‡ql evowZ Av‡qi ms¯vb Ki‡Z cv‡i|
- G c×wZ‡Z 6-7 gv‡m cwZ kZ‡K 15-20 †KwR gjv-cwU gv‡Qi Drcv`b cvlqv †h‡Z cv‡i|

Avq-e¨q

mviwYt GKK Pvl c×wZ‡Z 6 gv‡m 20 kZ‡Ki cK‡i gjv-cwU Pv‡li Avq l e¨‡qi wnmve|

LvZ	gjv		cwU	
	cwigvY	gj¨ (UvKv)	cwigvY	gj¨ (UvKv)
e¨q				
cKi ms¯vi gRix		300		300
Pb	20 †KwR	300	20 †KwR	300
†Mvei	160 †KwR	80	160 †KwR	80
gv‡Qi †cvbv	8,000 wU	4,000	8,000 wU	4,000
Lv`¨ • Pv‡ji Kov • mwilvi ^Lj	 225 †KwR 75 †KwR	 2,700 1,500	 340 †KwR 110 †KwR	 4,080 2,200
†Mvei	160 †KwR	80	160 †KwR	80
wewea	-	500	-	500
me‡gvU e¨q		9,460		11,540
Avq				
gjv 120 †KwR cwU 160 †KwR (@ 100 UvKv)	120 †KwR	14,400	160 †KwR	16,000
cKZ gbvdv		4,940		4,460

mviwYt wgk Pv‡l GK GKi cK‡i 8-9 gv‡m i“B RvZxq gv‡Qi mv‡_ gjv I cwU Pv‡l Avq-e¨‡qi wnmve|

LvZ	wgkPvl	
	cwigvY	gj¨ (UvKv)
e¨q		
BRviv gj¨		20,000
cKi ms¯‹vi gRix		2,000
Pb	100 †KwR	1,500
†Mvei	800 †KwR	400
gv‡Qi †cvbv	24,000 wU	18,000
Lv`¨ Pv‡ji Kov mwilvi ^Lj	 4,500 †KwR 1,100 †KwR	 54,000 22,000
mvi BDwiqv wUGmwc †Mvei	 160 †KwR 80 †KwR 6,400 †KwR	 1,280 3600 3200
wewea		2,000
me‡gvU e¨q		1,27,980
Avq gvQ weµq: i“BRvZxq gvQ- 1600 ‡KwR (@ 80 UvKv) gjv I cwU- 800 ‡KwR (@ 100 UvKv)		2,08,000
cKZ gbvdv		80,020

gv‡Qi †ivM-evjvB I Zvi cwZKvi

Ab¨vb¨ Rx‡ei b¨vq ‡QvU gvQI wewfb †iv‡M Avµvš n‡q _v‡K| cK‡ii gvQ mvaviYZt e¨vK‡UwiqvI, QÎvK, ciRxwe BZ¨w` RxevY Øviv Avµvš nq| GQvov Acwó I Lv‡`¨i Afve, Aw·‡R‡bi Afve, A¯v¯¨Ki cwi‡ek BZ¨w` bvbwea Kvi‡Y gv‡Qi †ivM nq| gv‡Qi †¶‡Î ‡iv‡Mi wPwKrmvi †P‡q cwZ‡ivaB DËg cšv| cwZ‡ivagjK e¨e¯v wnmv‡e cKi c¯wZ mwVKev‡e Ki‡Z n‡e| Ab¨ cK‡i e¨eüZ Rvj †kvab e¨ZxZ cK‡i e¨envi Kiv DwPZ bq| ZvQvov kx‡Zi ïi“‡Z (fv`-Awkb) cK‡ii cwZ kZK Rjvq‡b 250 Mvg Pb I 250 Mvg jeY cwZ mßv‡n GKevi K‡i 4-6 mßvn c‡qvM Ki‡j gvQ †iv‡M Avµvš nIqvi m¤¢ebv _v‡K bv|

wdc PvU cwiKíbv

gjv I cwUi Pvl e¨e¯vcbv	i“B RvZxq gv‡Qi mv‡_ gjv-cwUi wgkPv‡li c‡qvRbxqZv • wfUwgb-G Gi Afv‡e 30 nvRvi wkï ivZKvbv †iv‡M Avµvš; • gjv-cwU gv‡Qi KvUv I gv_vi As‡k Ges gvsm‡ckx‡Z K¨vjwmqvg, dmdivm I wRsK _v‡K hv wkïi nvo MV‡b c‡qvRbxq; • gjv gv‡Qi K¨wmqvg `‡ai K¨vjwmqv‡gi mv‡_ Zjbxq
<u>gjv-cwU Pv‡li Dc‡hvMxZv</u> • gjv-cwUi Pwn`v †ekx ZvB i“B RvZxq gv‡Qi mv‡_ G‡`i Pvl jvfRbK| • †`kxq cRwZi †QvU gvQ †L‡Z G †`‡ki gvbl Af¨¯| • gjv-cwU †QvU-eo me ai‡bi cK‡iB Pvl Kiv m¤e| • cKi †Wvev‡Z Kgc‡¶ `ûevi wWg †`q e‡j cwZ eQi G‡`i †cvbv gR‡`i c‡qvRb nq bv| • 15-20 w`b ci ci cKi †_‡K gjv gvQ a‡i cwiev‡ii gv‡Qi Pwn`v ciY Kiv mnR| • cwUi P¨vcv ïUKx Mv‡gi me¯‡ii gvb‡li wcq Lvevi| • cK‡i i“B RvZxq gv‡Qi Drcv`b wVK †i‡Ll gjv-cwUi evowZ Drcv`b cvlqv m¤e|	<u>gjv-cwUi Pvl e¨e¯vcbv</u> gjv-cwUi GKK Pvl • cKi wbevPb • cKi c¯wZ • †cvbv gR`- cwZ kZ‡K 400 wU gjv/cwU| • m¤úiK Lv`¨ c‡qvM c×wZ- †`‡ni lR‡bi 5% nv‡i Kov/fwm 80% I mwilvi ˆLj 20% • mvi c‡qvM- cwZ kZ‡K 5-6 †KwR †Mvei • gvQ AvniY- gR‡`i 2 gvm ci n‡Z cwZ 15 w`b Aši gvQ AvniY • Drcv`b- cwZ GK‡i gjv-1,200-1,500 ‡KwR cwU- 1,500-2,000 †KwR
<u>i“B RvZxq gv‡Qi mv‡_ gjv-cwUi wgkPvl</u> • cKi wbevPb • cKi c¯wZ • †cvbv gR` cwZ kZ‡K †cvbv gR‡`i cwigvY <table><tr><td rowspan="2">gv‡Qi cRwZ</td><td colspan="2">g‡Wj-1</td><td colspan="2">g‡Wj-2</td></tr><tr><td>†cvbvi msL¨v</td><td>†cvbvi AvKvi (BwÂ)</td><td>†cvbvi msL¨v</td><td>‡cvbvi AvKvi (BwÂ)</td></tr><tr><td>i“B</td><td>13</td><td>4-5</td><td>13</td><td>4-5</td></tr><tr><td>KvZjv</td><td>13</td><td>4-5</td><td>6</td><td>4-5</td></tr><tr><td>g‡Mj/Kwcl</td><td>14</td><td>4-5</td><td>13</td><td>4-5</td></tr><tr><td>wmjfvi Kvc</td><td>-</td><td>-</td><td>6</td><td>4-5</td></tr><tr><td>Mvm Kvc</td><td>-</td><td>-</td><td>2</td><td>4-5</td></tr><tr><td>i“B RvZxqgvQ</td><td>40</td><td></td><td>40</td><td>4-5</td></tr><tr><td>gjv</td><td>100</td><td>-</td><td>100</td><td></td></tr><tr><td>cwU</td><td>100</td><td>-</td><td>100</td><td></td></tr><tr><td>†gvU gjv I cwU</td><td>200</td><td></td><td>200</td><td></td></tr><tr><td>me‡gvU</td><td>240</td><td></td><td>240</td><td></td></tr></table>	<u>gR` cieZx e¨e¯vcbv</u> • Lv`¨ c‡qvM- i“B RvZxq gv‡Qi †`‡ni lR‡bi 4 fvM nv‡i Pv‡ji Kov/fvl I mwilvi ˆLj 2t1 Abcv‡Z, gjv-cwUi Rb¨ evowZ Lv‡`¨i c‡qvRb bvB| • mvi c‡qvM- 7-10 w`b ci ci cwZ kZ‡K 4-5 †KwR †Mvei, 100 Mvg BDwiqv I 100 Mvg wUGmwc| • gvQ AvniY I weµq- gR‡`i 6-7 gvm c‡i i“B RvZxq gv‡Qi AvswkK AvniY; gR‡`i 2 gvm ci n‡Z cwZ 15 w`b Aši gjv-cwU AvniY| • Drcv`b- G c×wZ‡Z 6-7 gv‡m cwZ kZ‡K 15-20 †KwR gjv-cwU|

GKK Pvl c×wZ‡Z gjv-cwU Pv‡li Avq-e¨‡qi wnmve

LvZ	gjv		cwU	
	cwigvY	gj¨ (UvKv)	cwigvb	gj¨ (UvKv)
e¨q				
cKi ms¯vi		300		300
Pb	20 †KwR	300	20 †KwR	300
†Mvei	160 †KwR	80	160 †KwR	80
gv‡Qi †cvbv	8,000 wU	4,000	8,000 wU	4,000
Lv`¨ Pv‡ji Kov mwilvi ^Lj	 225 †KwR 75 †KwR	 2,700 1,500	 340 †KwR 110 †KwR	 4,080 2,200
†Mvei	160 †KwR	80	160 †KwR	80
wewea	-	500	-	500
me‡gvU e¨q		9,460		11,540
Avq	120 †KwR	14,400	160 ‡KwR	16,000
cKZ gbvdv		4,940		4,460

wgkPv‡l gjv-cwUi Avq-e¨q wnmve

LvZ	wgkPvl	
	cwigvb	gj¨ (UvKv)
e¨q		
BRviv gj¨		20,000
cKi ms¯vi		2,000
Pb	100 †KwR	1,500
†Mvei	800 †KwR	400
gv‡Qi †cvbv	24,000 wU	18,000
Lv`¨ Pv‡ji Kov mwilvi ^Lj	 4,500 †KwR 1,100 †KwR	 54,000 22,000
mvi BDwiqv wUGmwc ‡Mvei	 160 †KwR 80 †KwR 6,400 †KwR	 1,280 3,600 3,200
wewea		2,000
me‡gvU e¨q		1,27,980
Avq	2,400	2,08,000
cKZ gbvdv		80,020

Awa‡ekb cwiKíbv

w`b t 2 mgq t 13:15-14:00 †gqv`Kvj t 45 wgwbU

wk‡ivbvg	t	i“BRvZxq gv‡Qi mv‡_ evUv gv‡Qi wgkPvl
Afxó `j	t	grm¨ Awa`ß‡ii KgKZve›
j¶¨	t	cwk¶Yv_x‡`i evUv gv‡Qi cwiwPZ, Pv‡li mweav, Pvl c×wZ BZ¨w` m¤ú‡K we¯wiZ avivYv †`qv n‡e hv‡Z Zv‡iv AwRZ Ávb Kv‡R jvwM‡q i“B RvZxq gv‡Qi mv‡_ evUv gvQ Pvl e¨e¯vcbvq AvMnx Pwl‡`i c‡qvRbxq mnvqZv c`vb Ki‡Z cv‡ib|
D‡Ïk¨	t	G Awa‡ekb †k‡l cwk¶Yv_xMY - • evUv gvQ l Gi Pv‡li mweav m¤ú‡K ej‡Z cvi‡eb| • i“BRvZxq gv‡Qi mv‡_ evUv gvQ Pvl c×wZ eYbv Ki‡Z cvi‡eb| • Pvl c×wZ‡Z mvi l m¤úiK Lv`¨ c‡qvM nv‡Z-Kj‡g wk¶v `vb Ki‡Z cvi‡eb| • cKi †_‡K gvQ AvniY m¤ú‡K ej‡Z cvi‡eb| • evUv gvQ Pv‡l c‡qvRbxq mZKZv m¤ú‡K ej‡Z cvi‡eb|	

welqmwP	Av‡jvP¨ welq	†KŝKj	mgq
fwgKv			4 wgwbU
	• ¯vMZ • ceeZx Awa‡ek‡bi mv‡_ ms‡hvM¯vcb • eZgvb Awa‡ek‡bi lci Av‡jvKcvZ • D‡Ïk¨ e¨vL¨vKiY • DØ×KiY	e³Zv	
welqe¯			35 wgwbU
	• evUv gvQ cwiwPwZ • Pv‡li mweav - evUv gv‡Qi evRvi gj¨ A‡bK †ekx| - i“B RvZxq gv‡Qi Zjbvq evUv †QvU Ae¯vq †h †Kvb mgq evRviRvZ Kiv hvq| - c‡bw`Z cRb‡bi gva¨‡g Drcw`Z †cvbv mviv eQi cvlqv hvq| - G gv‡Qi †ckx Pweh³ l m¯v`| - eQ‡i `BwU dmj Drcv`b Kiv hvq| • Pvl c×wZ - cKi c¯wZ - †cvbv gR` - gR` cieZx cwiPhv - m¤úiK Lv`¨ mieivn • mZKZv • AvniY • m¤ve¨ Avq-e¨‡qi wnmve	e³Zv l c‡kvËi	
mvi-ms‡¶c			6 wgwbU
	1| gj welqmgn ms‡¶‡c cbiv‡jvPbv 2| c‡kvË‡ii gva¨‡g D‡Ïk¨ hvPvB 3| cieZx Awa‡ek‡bi mv‡_ ms‡hvM ¯vcb	c‡kvËi	
cwk¶Y mnvqK mvgMx t gvKvi, wdc PvU, n¨vÛ AvDU, BZ¨w`			

i“B RvZxq gv‡Qi mv‡_ evUv gv‡Qi wgkPvl

evsjv‡`‡ki †QvU gvQ¸‡jvi g‡a¨ evUv Ab¨Zg| i¡cwj Av‡ki G gv‡Qi †`n j¤v I mi“, wc‡Vi w`KUv mvgvb¨ Kvj‡P is‡qi nq| evUv Rjvk‡qi wb‡Pi ¯‡i evm K‡i Ges Zj‡`‡ki cPv D™`, cwYKYv, ‡kljv, †eb‡_vm BZ¨vw` Lvq| evUv gv‡Qi wWg avivY ¶gZv A‡bK †ewk, Z‡e Giv e× Rjvk‡q wWg †`q bv| eZgv‡b Kvc n¨vPwi‡Z KwÎg cRb‡bi gva¨‡g ewYwR¨Kfv‡e evUvi †cvbv Drcv`b Kiv n‡”Q|

Pv‡li mweavb¸‡i“Z

- evUv Ab¨vb¨ i“BRvZxq gv‡Qi mv‡_ GK‡Î Pvl Kiv hvq|
- ‡QvU-eo me ai‡Yi Rjvk‡qB evUv gvQ Pvl Kiv hvq|
- evRvi gj¨ A‡bK †ewk Ges i“B RvZxq Ab¨vb¨ gv‡Qi Zjbvq evUv †QvU Ae¯vq †h †Kvb mgq evRviRvZ Kiv hvq|
- c‡bw`Z cRb‡bi gva¨‡g Drcw`Z †cvbv mviv eQi cvlqv hvq|
- G gv‡Qi †ckx Pweh³ I m¯v`|
- eQ‡i `ÛU dmj Drcv`b Kiv hvq|

Pvl c×wZ

cKi c¯wZ

- ïK‡bv †gŝm‡g cKi †_‡K RjR AvMvQv cwi®vi I cvo †givgZ Ki‡Z n‡e|
- †QvU gvQ Pv‡li †¶‡Î cKi ïKv‡bv DwPZ bq| ZvB evi evi Nb dv‡mi Rvj †U‡b iv¶‡m gvQ I ¶wZKi cvYx AcmviY Ki‡Z n‡e|
- cwZ kZ‡K 1-2 †KwR cv_‡i Pb c‡qvM Ki‡Z n‡e| gwUi ¸Yv¸‡Yi Ici wfwË K‡i P‡bi gvÎv Kg-‡ewk n‡Z cv‡i|
- cK‡i chvß cwigvb cvKwZK Lv`¨ Rb¥v‡bvi Rb¨ †cvbv Qvovi c‡e mvi c‡qvM Ki‡Z n‡e| cwZ kZ‡K 4-6 †KwR †Mvei, 100 Mvg BDwiqv I 100 Mvg wUGmwc c‡qvM Kiv fvj|
- cwbi is meR/ev`vgx-meR n‡j cKi †cvbv Qvovi Dch³ nq|

†cvbv gR`

cK‡i gvQ Pv‡li mdjZv wbfi K‡i fv‡jv Rv‡Zi m¯, mej I mwVK cRwZi †cvbv mwVK msL¨vq gR‡`i Ici| cK‡i †cvbv Qvovi Av‡M 10 wjUvi cwb I 1 PvgP (5 Mvg) cUwmqvg cvig¨vsMv‡bU `eY A_ev 100 Mvg jeY `e‡Y †cvbv †MvQj Kwi‡q RxevYg³ Ki‡Z n‡e| wgk Pv‡li cK‡i cwZ kZ‡K †cvbv gR‡`i nvi wbæi¡ct

cRwZ	msL¨v	AvKvi (†mwg.)
wmjfvi Kvc	12	10-15
i“B	6	10-15
MvmKvc	2	10-15
evUv	50	5-7
‡gvU	70	

gR` cieZx cwiPhv

- cK‡i chvß cwigvb cvKwZK Lv`¨ Drcv`‡bi Rb¨ ^`wbK ev 7 w`b ci ci wbqwgZ mvi c‡qvM Ki‡Z nq|
- mvaviY wbqg Abmv‡i ^`wbK cwZ kZ‡K 150 Mvg †Mvei A_ev 300 Mvg K‡¤úv÷, 5 Mvg BDwiqv I 5 Mvg wUGmwc GKwU cv‡Î cwbi mv‡_ 1 w`b wfwR‡q †i‡L ciw`b mKvj 10/11 Uvq mviv cK‡i mgvbfv‡e wQwU‡q w`‡Z n‡e|
- ^Re I ivmvqwbK mvi wgwk‡q cwigvYgZ I wbqwgZ e¨envi Ki‡j †ewk Drcv`b cvIqv hvq|

m¤úiK Lv`¨ mieivn

- Kvc-evUv wgk Pv‡I m¤úiK Lvevi wnmv‡e 1 t 2 Abcv‡Z mwilvi ^Lj I M‡gi fwm ev Pv‡ji wgwn Kov e¨envi Kiv hvq|
- 10-12 N›Uv wfRv‡bv mwilvi ^L‡ji mv‡_ ïK‡bv M‡gi fwm ev Pv‡ji wgwn Kov wgwk‡q †MvjvKvi ej ^Zwi Ki‡Z n‡e|
- cK‡i †cvbv gR‡`i c_g `Ûgvm gR`KZ gv‡Qi †gvU IR‡bi kZKvi 5 fvM wnmv‡e ^`wbK Lvevi w`‡Z n‡e|
- `Ûgvm ci n‡Z gv‡Qi IR‡bi kZKiv 3 fvM wnmv‡e Lvevi w`‡jB Pj‡e|
- kxZKv‡j Lvev‡ii cwigvY kZKiv 1-2 fvM wnmv‡e mieivn Ki‡Z n‡e|
- wnmveKZ †gvU Lvevi w`‡b 2 evi c‡qvM Kiv fvj|
- gv‡Qi gwmK bgbvq‡bi gva¨‡g Lvev‡ii cwigvY wbawiY Ki‡Z n‡e|

mZKZv

- cK‡ii Zj‡`‡k Kv`v _vK‡j ¶wZKi M¨vm R‡g _vK‡Z cv‡i| `woi mv‡_ †jvnv ev gwUi KwV wKsev BU †e‡a niiv ^Zwi K‡i cK‡ii Zj †N‡I Av‡¯ Av‡¯ †U‡b Zjvi M¨vm †ei K‡i w`‡Z n‡e|
- cwZ gv‡m GKevi wKQ gvQ a‡i gv‡Qi ¯v¯¨ cix¶v Ki‡Z n‡e|

AvniY:

Pwli c‡qvRb gwdK gv‡Qi AvKvi, evRvi `i I Pwn`v Abhvqx cKi n‡Z gvQ AvniY Kiv c‡qvRb| Avni‡Yi c‡e c‡qvRbxq miÄvgw` (Rvj, cwigvcK hš, Swo, eid BZ¨w`) I cwienb e¨e¯v wbwðZ Ki‡Z n‡e| AvniY `Ûfv‡e Kiv hvq-

AvswkK AvniY: cK‡i gR`KZ †cvbv 5-6 gvm cwZcvj‡bi ci evRviRvZKi‡Yi Dch³ eo gvQ¸‡jv a‡i †dj‡Z n‡e| †h KqwU gvQ wewµ ev aiv n‡e, GKB Rv‡Zi mgmsL¨K eo AvKv‡ii †cvbv Avevi cK‡i Qvo‡Z n‡e| G‡Z GKB cKi †_‡K †ewk cwigv‡Y Drcv`b cvIqv hvq|

Povš AvniY: evRvi `i Ges cieZx dm‡ji Rb¨ †cvbv cwßi Ici wbfi K‡i Povš Avni‡Yi mgqKvj wVK Ki‡Z n‡e| gvQ Avni‡Yi ci cKi c¯Z K‡i cbivq gvQ Pv‡li D‡`¨vM wb‡Z n‡e|

Avq-e¨‡qi wnmve

GKwU 30 kZK AvqZ‡bi cK‡i 6 gv‡m Kvc-evUv wgk Pv‡li Avq-e¨q I Drcv`‡bi wnmve wb‡P †`Lv‡bv n‡jv|

e¨q:

e¨‡qi wewfbœ	msL¨v/cwigvb	gj¨ (UvKv)
cKi †givgZ/ms¯‹vi	-	1000.00
Pb	30 †KwR	450.00
BDwiqv	30 †KwR	180.00
wUGmwc	30 †KwR	600.00
†Mvei	750 †KwR	750.00
†cvbv	1,800 wU	1,800.00
Pv‡ji wgwn Kov	1,000 †KwR	10,000.00
mwilvi ^Lj	600 †KwR	12,000.00
gvQ aiv I Ab¨vb¨	-	3,000.00
	†gvU e¨q	29,780.00

Drcv`b I gbvdv

i“B RvZxq I evUv gvQ Drcv`b = 750 †KwR
Mo gj¨ cwZ †KwR 60.00 UvKv wn‡m‡e Avq = 45,000.00 UvKv
gbvdv = (Avq - e¨q) = (45,000.00-29,780.00) = 15,220.00 UvKv|

wdc PvU cwiKíbv

i“BRvZxq gv‡Qi mv‡_ evUv gv‡Qi wgkPvl	Pv‡li mweav/¸i“Z 2) evUv Ab¨vb¨ i“B RvZxq gv‡Qi mv‡_ Pvl Kiv hvq| 3) †QvU-eo me ai‡bi Rjvk‡qB gvQ Pvl Kiv hvq| 4) evRvi gj¨ †ekx I i“B RvZxq Ab¨vb¨ gv‡Qi Zjbvq †QvU Ae¯vq †h †Kvb mgq evRviRvZ Kiv hvq| 5) c‡Ywm`Z cRb‡bi gva¨‡g Drcw`Z †cvbv mviv eQi cvlqv hvq| 6) G gv‡Qi †ckx Pweh³ I m¯v`| 7) eQ‡i `ÛU dmj Drcv`b Kiv hvq|
cKi c¯wZ • RjR AvMvQv cwi®wi I cvo †givgZ| • Nb dv‡mi Rvj evi evi †U‡b iv¶‡m gvQ I ¶wZKi cvYx AcmviY Ki‡Z n‡e| • cwZ kZ‡K 1-2 †KwR cv_‡i Pb c‡qvM | • chvß cwigvb cvKwZK Lv`¨ Rb¥v‡bvi Rb¨ †cvbv Qvovi c‡e cwZ kZ‡K 4-6 †KwR †Mvei, 100 Mvg BDwiqv I 100 Mvg wUGmwc c‡qvM Kiv fvj| • cwbi is meR/ev`vgx-meR n‡j cKi †cvbv Qvovi Dch³ nq|	†cvbv gR` • fv‡jv Rv‡Zi m¯ I mej †cvbv gR` Ki‡Z n‡e| • cK‡i †cvbv Qvovi Av‡M RxevYg³ K‡i wb‡Z n‡e| • wbæ Abcv‡Z †cvbv gR` Kiv fv‡jv cRwZ | msL¨v | AvKvi (†mwg) wmjfvi Kvc | 12 | 10-15 i“B | 6 | 10-15 MvmKvc | 2 | 10-15 evUv | 50 | 5-7 ‡gvU | 70 |
gR` cieZx cwiPhv • cK‡i chvß cwigvb cvKwZK Lv`¨ Rb¥v‡bvi Rb¨ ‰`wbK ev 7 w`b ci ci mvi c‡qvM Ki‡Z nq| • ‰`wbK wnmv‡e cwZ kZ‡K 150 Mvg †Mvei, 5 Mvg BDwiqv I 5 Mvg wUGmwc 1 w`b wfwR‡q †i‡L ciw`b c‡qvM Ki‡Z nq||	m¤úiK Lv`¨ mieivn • 1t2 Abcv‡Z mwilvi ^Lj I M‡gi fwm ev Pv‡ji wgwn Kov e¨envi Ki‡Z n‡e| • ‡cvbv gR‡`i c_g 2 gvm gv‡Qi †`n IR‡bi kZKiv 5 fvM wnmv‡e ‰`wbK Lvevi w`‡Z n‡e| • 2 gvm ci n‡Z †`n IR‡bi 2% w`‡jB n‡e|
mZKZv • `woi mv‡_ †jvnv ev gwUi KwV wKsev BU †e‡a niiv ^Zix K‡i cK‡ii Zj †N‡l Av‡¯ Av‡¯ †U‡b Zjvi M¨vm †ei K‡i w`‡Z n‡e| • cwZ gv‡m GKevi wKQ gvQ a‡i gv‡Qi ¯v¯¨ cix¶v Ki‡Z n‡e|	Avq-e¨‡qi wnmve 30 kZK cK‡i 6 gv‡m Kvc-evUv wgk Pv‡li Avq-e¨q e¨‡qi weeiY | msL¨v/cwigvb | gj¨ (UvKv) cKi †givgZ/ms¯wi | - | 1,000.00 Pb | 30 †KwR | 450.00

AvniY

AvswkK AvniY

- 5-6 gvm cwZcvj‡bi ci evRviRvZKi‡Yi Dch³ eo gvQ¸‡jv a‡i tdj‡Z n‡e|
- AvniYKZ gv‡Qi mgcwigvb gv‡Qi tcvbv cbvivq gR` Ki‡Z n‡e|

Povš AvniY:

- evRvi `i Ges cieZx dm‡ji Rb¨ tcvbv cwßi Ici wbfi K‡i Povš Avni‡Yi mgqKvj wVK K‡i cK‡ii mg¯ gvQ a‡i tdj‡Z n‡e|

BDwiqv	30 tKwR	180.00
wUGmwc	30 tKwR	600.00
tMvei	750 tKwR	750.00
tcvbv	1,800 wU	1,800.00
Pv‡ji wgwn Kov	1,000 tKwR	10,000.00
mwilvi ^Lj	600 tKwR	12,000.00
gvQ aiv I Ab¨vb¨	-	3,000.00
tgvU e¨q		29,780.00

Drcv`b I gbvdv:

i“B RvZxq I evUv gvQ Drcv`b = 750 tKwR
cwZ tKwR 60.00 UvKv wn‡m‡e Avq = UvKv 45,000.00
gbvdv = (Avq-e¨q) = UvKv (45,000.00-29,780.00)
= UvKv 15,220.00

mvÜ¨Kvjxb KvR
(†QvU `jxq Abkxjbx)

†QvU gvQ msi¶‡Y Afqvkg ¯vcb I i¶Yv‡e¶‡Y wmwbqi/Dc‡Rjv grm¨ KgKZv I mdj‡fvMx‡`i `wqZ I KZe¨

G Abkxjbxi D‡Ïk¨ n‡"Q AskMnYKvixMY Afqvkg ¯vcb I msi¶‡Yi Rb¨ grm¨ Awa`ß‡ii KgKZv I mdj‡fvMx‡`i KiYxq welq wPwýZ Kivi avivYv cv‡eb|

Kv‡Ri aviv

1| AskMnYKvix‡`i PviwU †QvU `‡j wef³ Ki‡eb| †QvU `j Av‡jvPbv K‡i wbR wbR GjvKvi †QvU gv‡Qi Afqvkg ¯vc‡bi Rb¨ ¯vb wbevP‡bi we‡eP¨ wel‡qi ZwjKv ^Zix Ki‡eb|

2| cwk¶Yv_xMY Afqvkg ¯vcb I i¶Yv‡e¶‡Y grm¨ Awa`ß‡ii KgKZv‡`i I mdj‡fvMx‡`i KiYxq Kv‡Ri ZwjKv c¯Z Ki‡eb|

3| ciw`b `jMZ Dc¯vcbvi Rb¨ mbv³KZ `wqZ I KZe¨¸wji wdcPvU ^Zix Ki‡eb|

দেশীয় প্রজাতির ছোট মাছের চাষ ব্যবস্থাপনা ও সংরক্ষণ