

উদ্ধিদ বার্তা



৩৭তম বর্ষ ১ম সংখ্যা পৌষ ১৪২৯/ডিসেম্বর ২০২২



বাংলাদেশ বৈটনিক্যাল সোসাইটি
উদ্ধিদবিজ্ঞান বিভাগ
ঢাকা বিশ্ববিদ্যালয়

DWTM CEVZC

[evsj vt k tevUwbKvj tmvmvBWUj evsj v gycî]

37Zg el ④g msLv tcSI 1429/Wtmx 2022

m <small>x</small> úv` Kxq	
<p>c<small>ö</small>b m<small>x</small>úv` K Aa<small>v</small>cK W. Zvn<small>m</small>mbv i<small>ng</small></p> <p>m<small>x</small>úv` K Aa<small>v</small>cK W. tgvt gub<i>i</i> ȝ/gvb L` Kvi Aa<small>v</small>cK W. KvRx kvLvi qvZ tnv<small>t</small>mb Aa<small>v</small>cK W. giv<small>p</small> b<i>yj</i> Bmj vg W. %mq` v kvigxb mijZvbv</p> <p>Dct` óv cwi` Aa<small>v</small>cK W. Avej Lv<small>t</small>qi Aa<small>v</small>cK W. tgv<small>-</small>dv Kvgyj cvkv Aa<small>v</small>cK W. nvmbv tnbv teMg W. tdi<small>t</small> Šmx teMg Aa<small>v</small>cK Kvgi Avd<small>t</small>ivR Avn<small>t</small>g`</p> <p>Aa<small>v</small>cK W. Zvn<small>m</small>mbv i<small>ng</small> KZ<small>Q</small> evsj v<small>t</small> k tevUwbK<small>vj</small> t<small>m</small>v<small>m</small>vB<small>W</small>Uj Kvhi<small>Q</small>q, D<small>W</small>TM C<small>EV</small>B<small>W</small> 62/1 c<small>j</small>ibv c<small>ö</small>b, XvKv-1000 E-mail: hasibprinting@gmail.com Cell: 01552388130, 01612388130</p> <p>gj<small>t</small> 20.00 (mek) UvKv gvt</p>	<p>mevB<small>t</small>K bZb eQ<small>t</small>ii i<small>f</small>"Qv Avkv Kvi B<small>t</small>i Rx 2023 mij Avgyt` i Rb" e<small>t</small>q Avbte kw<small>s</small>l mgip<small>x</small> I bZb D<small>W</small>TM C<small>EV</small>bi mdj Zv </p> <p>c<small>t</small>eP<small>g</small>ZB ej t<small>Z</small> n<small>t</small>"Q tj Lvi -tZv I c<small>P</small>i negly D<small>W</small>TM C<small>EV</small>Avbx<small>t</small> i K_v tKv_vq thb Avgyt` i tj Lvi e<small>v</small>cvti AmsM<small>W</small>Z t<small>t</small>K h<small>t</small>"Q fweL t<small>Z</small> D<small>W</small>TM C<small>EV</small> K<small>Q</small> fvebv<small>t</small> v d<small>t</small>utq tZyj vi Rb" GB D<small>W</small>TM C<small>EV</small> Z<small>C</small>Avi I mgx nt<small>e</small> mKtj i mnthwMZvq </p> <p>c<small>Ö</small>kbvi mv<small>t</small>_ msukó mevB<small>t</small>K KvgiUi c<small>P</small> t<small>t</small>K ab<small>er</small> h<small>w</small> tKv AmSM<small>W</small>Z ev f<small>z</small> n<small>t</small>q _v<small>t</small>K, tm f<small>z</small> i `vq Avgvi Avi fvtj vj MvUkz mKtj i, c<small>Ö</small>vkv iBj fvj _vKvi, fvj ivLvi </p>

mPc↑

- | | |
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Dw™ C ev Zn® Rb° tj Lv

DwTMç mæúKØ th tKv bælq wFÆK wbeÜ,
Lei, Z_, DwTMç msMØ kby³KiY, ms i PY,
AbgjÜb, wPvngj-K ågY, Awe- vi BZ^W
tj Lv DwTMç evZ@ cÖk Kiv nq |

tj Lv KvM¶Ri GK cōvq m̄yúófvte gȳZ n̄tZ
n̄te| Zte B-tgBj, m̄mW ev tcbWB¶fi
gva-^{tg} cWvfbvi tj Lv AM¶Kvi cvte|
cvUyic cWvfbvi mgq AekB Kic ti tL
cWvfbv| Agtbvbz tj Lv tdiZ cWvfbv nq
bv| tj Lvi gibB evZv^cÖ[¶]ki gib` Ü Ges G
e^vcv̄ti m̄aú` K gÜj xi m̄xvšB Pøvšl tj Lv
cWvevi ci `y msLv cÖnkZ n̄l qvi ci l
Qcv bv ntj Agtbvbz ntq[¶]Q etj ati vbtZ
n̄te|

tj Lvi Rb m¤ybx †` qv nq bv |
Dw™¢ evZvççÖnkZ tj Lvi gZvgZ m¤úY@te
tj L‡Ki | m¤úv` KgÛj x ev tmvmlBwUi gZvgZ
bq |

Dw^MC evZv^CMÖK tnvb

eQ‡i `Bm msL"v evZrcÖnkZ nq |

Pùn cWvevi w/Kubv

մասնակիությունը կազմում է 1000 մասնակիությունը կազմում է 1000

cō msL v DmC evZw gj 20.00 UwKv

Avgit` i wkyvmdti DrmCneAvb wefM, XvKv wekile` vj q

MmRx tiveBqv

wZxq el Qmgb), DrmCneAvb wefM, XvKv wekile` vj q |

tQj tgjq Avi bwZ-bvZbx mevBtK gRvi mgjq K_v ej tZ tMtj wekile` vj tqi wkyv mdii K_v AvmtEB| wkyv mdi Avgit` i t`tki wkyvP i wekile` vj tqi Rxetbi GK tmS` h` |

GgbB GK , iazcbCwZ msMÖ Ki tZ Avgiv XvKv wekile` vj tqi DrmCneAvb wefM wZxq eI P wkyvP MtkQj vg ^ wZv GKU Kt kó L'vZ mtj U| mtj U bv Nytj 'g'ki evsj vt kó t` Lv cwi cbPte bv| GB tRj v cjiwci NytZ PvBtj Kgcjy `kw b mgq nvtZ tifL tew tq cofZ nte| Zte Avgit` i ágb cwi Kí bv wQj wZb w` tbi | G KtqKU w` tbi RvqMwUi tmS` h` DcftfM Kiv hvq gb fti |

8gvP©2020, mhw©lwi AvtMB Zwí Zí v , Qvbtv tkI | kvgmly bwni nj t_k Avgiv wZbRb wbkvZ, Atshv Avi Avg Dtv coj vg wi Ktq| Zi mBwQj bv| cQg Mše mydqv Kvgj nj , XvKv wekile` vj q| Avgit` i AvtMB AftbK tmLvtb evM wbtq nwRi | wkyKt` i Kov wbt` R mKvJ 7Uvq evm Qvote, mwZwvi cteP tcwvtZ nte Kwe mydqv Kvgj ntj | GLvb t_k evm Qvote |

Avgit` i hvÍv ii anntjv| Avgit` i tctebMwo Pj tQ ARvbv GK A` k` ccoxi w` tK , wZv GKU Kt kó t` k, G thb Pvicv k metRi mgvtn ;bxj AvKvki bxP metRi Mwv Pv tctZ mRxe cQZ. Avgit` i Avnevb KitQ, cig Av` ti ej tQ Avq| evm wekile` vj tq cib dUK AwZpug Kivi m½ m½B ii anntjv Avgit` i bvP Mvb Avi %a utj doj Avmi | kQq Avj Di ingib mvi, gvwg Rvte` tnvtmb mvi Ges tgvnwsj` Avej Kvkg mvi mn mevB thb AevPwj K thvMvhvMi gva` tg GB tevSvbj b evtmi gta` Avgit` i bvP Mvb Dj tQm Zv` i mgm` ntQ bv eis mvi ivl DctfM KitQb Avgit` i Avb` |

gvBtjuvertm Avgit` i mw_ wQj b kQq wclvZ mvgv` gvg Ges mti vqvi tnvtmb mvi | gvtS gvtSB hvÍv weiwZtZ wkyKMY Avgit` i tKvb mgm` ntQ wK bv, tKvb wKQz ctqRb nte wK bv, Avgiv mKtj wK AwQ wK bv tmme Lei wbwQj b| Kt m iagi Kov kmvbi fngKvq Avgit` i kQq wkyK wkyKwMbtK Avgiv GB wZbw` b t` tLQj vg tý` -wetkfl Zviv Avgit` i gv-evevi t_k Kt wek fngKv cvj b KitZ cvtib |

PjwK Ptj tQ GKv ct_, I Ubi gv, eKj dj, wtr, tj vKj evm tKvb ai tbi MvbB ev` coj bv, mw_ Pj tQ dtUwmjšwK -66-I cvMj v bvP| mvi ivl wKQz gRvi K_v ej t j b Avi Avgit` i j vdyj wdtZ thb evm bv tf½ hvq Ggb VwEvl Kitj b| mevB myfvtcSqtZ nte Ges wdti AvmtZ nte ZvB evtm bvPvbwPi mgq thb Amý bv ntq cwo tmw tK tLqj ivLtz ej t j b mevBtK |

AčbK ^n útj **o** Kči c_ Pj **t**Z Pj **t**Z Avgut` i húv*mei***z** † Iqv nčtj v mKčj i bčv-**fi**
Rb` | Kčvúm **t****č**K Avb*v*LP**o**i cč**t**KU † Iqv nčtj v mevBčK | G GK Ab*v*iKg Avb` | **u**KOčyb
*mei***z** † Iqvi ci Averi Avgut` i Mčmo gnčmoK ači Pj **t**Q Mčše` i **u****č**K |

ukývmdti i MčotZ KLčtv **N**g nq bv!! Averi I mZ` cč**Y** nčtj v 7 ZčiiL ivtZ ečM
tMvQrtbv, cči Kč bv, DčERbv Avbč **w**NčivZ cvi Kči I Avgut` i Kvčiv tPvtL **N**g bvB | mevB
tRčM AvtQ GK Ačk` AvnYčb | **u**kýtKiv GKuzZ` **r**Qbaetj I Avgiv mevB **u**Ks` mRvM ` **w**
tdj **u**Q evčmi Rvbij vi evBči |

Pvi **t**Kvbv **t**dkg KLbI † Lv hvq bZb **t**Kvb bMi, eč-**t**Pvtqi **÷**j KLčtv ev etk Svo,
KLčtv Lvj **u**ej KLb Averi Rbgvbe kb` a-a-cč | Gfvte Pj **t**Z Pj **t**Z tej v cč 2:30 **w**gbtU
Avgiv tcčQ tMj vg **w**mtj **t**U | **w**mtj **t**Ui **w**L*v*Z cvbkx tnvUj Pjj Avgut` i **g**ji i Lverti i
AvtqvRb | **u**utj **o** Avi bvPvb*v*PčZ Avgiv GčZv Kvčs Avi **ž**avZčQj vg th mevB th
hvi gZ tLčZ etm **w**tzQj vg, **u**cčuKýK-**u**kýKvMb tLčqčOb **u**K bv Zv bv tLqj KčiB!

gji i Lvbwicbv tki Kči Avgut` i Mčše` **o**evsj **u****č**k Pv Mčel bv Bbw-**w**UDUč kčgčj |
Pj **w**Z cč**t** **o**evčmi Rvbij vg Gevi **t**Kvb MčZkij bMi e` i, Lvj **u**ej , **w**U-evRvi , **u**Ksev a-a-gW
bq! mwvi mwvi Pv-evMvbi tQvU tQvU **w**j vi Mčtzq metRi Kvčcč Avgut` i cč mKčj iB nqZ
GUvB cčg Pv-evMvB † Lv AvfÁZv nčtj v| DčERbvq AtbčKB gv_v tei Kči **w****tz**Qj vg
Rvbij vi ewnti | meč mZč **u**kýKMB **u**Ks` Avgut` i **u**nkqvi KčiZ tfvčj b **w** | Gi gta`
Avgut` i Kčvgtiv **t**j v Ab nčtZ kče KčiQ | Pv-evMvbi tmš` **h****tz**K tdegex Kivi cčm j **ž**
Kiv tMj v Avgut` i **u**kýK gÚj xi **t****č**K **i**iyKči Avgut` i mKčj i gta` | KLčtv mgZčj ev
KLčtv cvnwio **w**j vg NbmetRi **t**fi **t**fi **w**Rvbtv Pv-tqi evMvB **t**j v Avgut` i húvct_ Kčs
mw Kči **w**j GK j ngvq |

uMayi A-**č**gZ **o**etKčj Avgut` i Mčmo **w**tzQj v evsj **u****č**k Pv Mčel Yv Bbw-**w**UDU
(BTRI) **t**Z | 1973 **w**tzj MčWZ evsj **u****č**k Pv Mčel bv Bmw-**w**UDU **f**vi **t**Zi Avmvtgi cčiB
Dcgnvt` **t**ki metPtzq cč**y**Zb Pv Mčel Yv **t**K` **a**hv kčgčtj Aev-**z** | cčKčtv Pv teW©1952
wtzj ce©**u**K-**t**b GKUJ Pv Mčel Yv tókb cčzov Kči | evsj **u****č** **t**ki **v**axbZvi ci 1973 **w**tzj
evsj **u****č** mi Kvi **t****÷**kbwU**č**K GKUJ Mčel bv cčzovb Dbz**č**E Kči | evsj **u****č** Pv Mčel Yv
Bbw-**w**UDU evsj **u****č** bčvkbyj GMčQj Pvij **w**mvP **w**mt

(bvm)© Gi AsF© 10iU RvZxq

czovb*b* gta` AbčZg | G cčzovb*b* mi včtk 4iU DctK` **a**itqčQ | DctK` **a**itj v-

- tgčj fxevRvi tRj vi Kvčj **w**tzZ,
- **w**mtj U knči
- PUMč tRj vi d*l*UK QmčotZ Ges
- Dčii **t**hi cčMo tRj vi tZZj qvq Aver-**z** |

wUAvi AvB -Gi 8iU Mčel Yv **w**efvM **t**qčQ | Mčel bv **w**efvM **t**j v nčQ:- 1. gčEKv imqb 2.
DčMC **w**Avb 3. KčlZčEj4. KvUZčEj5. DčMC **t****w**MZčEj6. cč **i**mqb 7. cčSKj 8.cčmsL*v*b
I A_ **o**nz | G cčzovb*b* **w**ekj Abčvb Pv Mčel bv cčzovb*b* mgZč |

meJAviB -Gi Pv meÁvbxt` i DTMteZ ch¹³ I `eÁwbK MteIYv Ávb I AwfÁZv Pv lk¹¹i i AMÖZ I Dbq¹² Ae`vb t¹²tL hv¹²Q| Pv meÁvbxiv G ch¹³ meU 1 t¹²K 16 ch¹³16U D^{TP}
dj bkxj I AvKl¹³q bMZgb m¹²ubtKt¹² DTMeb Kt¹²Qb| Pv meÁwbiv met¹²I AwaK
dj bkxj Db¹²R¹²Zi tKt¹² meU 16 Avb¹²wbKf¹²t¹² neg¹³ Kt¹²Qb| GQrov Pv meÁvbxiv wbij m
MteIbv Pvj tq Kt¹²Kt¹² tRbt¹²U tKt¹² mgš¹²q 4U evB¹²Kt¹²vj exRRvZ meU Gm 1, meU Gm 2,
meU Gm 3, meU Gm 4 Ges GKt¹² cvj Kt¹²vj exRRvZ DTMeb Kt¹²Qb|



A½R cRbþbi gva"tg Pvþqi Pviv ^Zwi nt"Q



D'P dj bkxj | AvK**bxq** bMZgvb múbcx**h** (newU)



evsj vt` k Pv MteI Yv tK` a

mtj U AAtj i weLviZ mvZKov AvPvi wKsev gvQ-gusmi mtj LgB RbmcQ m^y^yl
tjeRvZxq dj Pv %Zxi mgq e^veUZ nq| GiB gta" MteIKiv mtj tUi G RbmcQ dj tK
t ke^wic RbmcQKti ZjtZ %Zwi Kti tQb mvZKov Pv| Pv^qi is nte AtbKUv Kqj v Pv cvZvi
mtA mvZKovi msugkO ^Zwi G Pv| evsj vt` tki Pv MteI Yv Bbw^wUEU (ewUAviAvB) kxg^zj i
tRbtij g^v^bRvi tLw` Kvi kvnRvnvb wb^RB D^m^eb Kti tQb bZb G Pv| wZb mvZKov Pv
Qovi wmj fvi Pv ^Zwi Kti tQb| Z_m^ :<https://bn.wikipedia.org/wiki>

ewUAviAvB tZ Avgiv cwiPZ nj vg Pv^qi ewfboai^bi Rv^zi mv^_| evsj vt` tki
me^Pq c^wZb Pv evMvb t` Lvi tm^Sf^M^ n^jv tmLv^bB| Avgut i mKtj i tPv^Lg^L we^sq,
Ab^iKg fv^jv vMv, Ab^iKg Ab^vZ| evsj vt` k Pv MteI bv Bbw^wUDU Gi GZ D^m^eb Avi
mvdj " t` vj v w^j Avgut i gZ yy^y^z^aD^m^eb^t i g^b| K^q wK^yKg^Uj x Avgut i wb^q
tM^j b Bbw^wUD^tUi tmB mKj t^b thLv^b Db^eRv^zi Pv^qi Pv^v^` Kiv nq| Pv cvZv t_tK
wK^v^te A^zR cRb^bi gra^g Pv^qi Pv^v ^Zwi n^"Q, wK^v^te tm^tj vt^K bZb f^v^vBwU wnt^m^te
g^y Kiv nte Gme wK^v^te Avgut i ev^stq w^tj b K^q Aw^Di ingvb m^vi, Rv^te` tn^tmb m^vi
Ges Bbw^wUD^tUi MteIKMY| Pv^qi cvkvcmk Avgiv Kwd Pv^l i mv^_l cwiPZ nj vg| Pv Pv^
m^wK^Q bZb bZb Avi Aw^fAz^tK m^Aq Kti Avgiv wd^i Pjj vg Avgut i cieZx^C
M^ste^i w^tK|



চৰকাৰি W. গ্ৰাম্য চৰকাৰী তন্ত্ৰজ্ঞান মন্ত্ৰণালয়ৰ
গেস টগুন্ডাৰ্জু আৱেজ কৃতকৰ্ম মন্ত্ৰণালয়ৰ
আইটি বিভাগৰ প্ৰতিষ্ঠাৱে একত্ৰিত হওয়া
আইটি বিভাগৰ প্ৰতিষ্ঠাৱে একত্ৰিত হওয়া



মেলাৱি আৰু বি. গি. মণ্ডলৰ আৱৰ্তনৰ ইণ্টেলিজেন্স মক্ষ মিল্যু_১©

DW™ Ceviz®



meUAviAvB Gi Pv eMv‡b Avg‡` i e„v‡Pi mKj Qv†xi v

Gic̄ti Avgiv t̄Mj vg Pv̄t̄qi ivRavbx L̄vZ w̄mt̄j t̄Ui tḡSj f̄xevRvi t̄Rj v̄q hv̄l̄vc̄t̄ Avgiv
t̄ Lj vg mw̄i mw̄i Pv̄t̄qi t̄ vKvb| tḡSj f̄xevRv̄t̄i B Avgiv w̄mt̄j t̄Ui t̄mB w̄eL̄Z mw̄Z tj qvi Pv ev
mw̄Z i t̄h̄zi Pv̄t̄qi t̄ v w̄bj vg| mw̄t̄ w̄Qj t̄ úkuj `g Pv, tj ey Pv, BZ w̄ | mw̄Z tj qvi Pv ev mw̄Z
i t̄h̄zi Pv c̄v b̄v Kit̄j bw̄K w̄mt̄j U ågb m̄púb w̄nq bv ! w̄k̄yKMB ZvB Avgiv` i Rb̄ t̄ úkuj
`g Pv̄t̄qi mw̄t̄ Aw̄p̄Kit̄j b̄ tj qvi Pv| inm̄ RbK GB mw̄Z i t̄h̄zi Pv t̄ w̄k w̄et̄ w̄k ch̄OK` i
Kv̄t̄QI AvKl̄w̄q w̄elq| GKw̄U M̄d̄m mw̄ZUv i t̄h̄zi Pv t̄ L̄t̄Z At̄bKUv AvKv̄t̄ki isabj̄ ḡt̄Zv,
GKUv Av̄t̄KUv mw̄t̄ w̄ḡt̄k bv | mw̄Z Kjy v̄t̄i i Pv̄t̄qi RbK i t̄gk ivg tm̄šo nt̄j | Zvi D̄m̄eb̄t̄K
ms̄thvRb K̄t̄i GLb At̄b̄t̄KB mw̄Z Kjy vi Pv %Zw̄i Kīt̄Z cv̄t̄ib| Zv̄t̄i ḡta" Ab̄Zg nt̄j b̄
tm̄šivk ^e` | w̄Zib GB mw̄Z Kjy vi Pv̄t̄qi ms̄thvRb K̄t̄i w̄t̄q̄t̄Qb ^úó mw̄ZUv tj qvi, hv t̄ L̄t̄Z
At̄bKUv AvKv̄t̄ki isabj̄ ḡt̄Zv| ZvB tm̄šivk ^e` t̄K ej v nq Avah̄OK mw̄Z Kjy vi Pv̄t̄qi RbK|
mw̄Z Kjy vi Pv ^Zixi inm̄ tm̄šivk ^e` i Kv̄t̄Q Rvb̄t̄Z PvB̄t̄j w̄Zib et̄j b GUv GKUv NbZj̄ GB Pv
%Zw̄i Kiv nq NbZj̄ Dci | mw̄ZUv tj qvi ev i o %Zw̄i Kiv nq c̄t̄ZK w̄Rbmc̄t̄ meR Pv (M̄D̄
w̄U), Kv̄t̄j v Pv (ek̄ w̄U) tj eyAv̄v Ges `g| GKw̄U ^Q Kv̄t̄Pi M̄d̄m ^úó mw̄ZUv tj qvi GK GK
Pgt̄K GK GKw̄U tj q̄t̄i t̄v | Zte Avgiv` i mw̄Z tj q̄t̄i i Pv̄t̄q̄ c̄Qj̄ t̄j qvi w̄Qj `g, w̄Zxq
t̄j qvi w̄Qj M̄D̄w̄U, ZZxq tj qvi w̄Qj `g Pv, Gi ci is Pv Zvici mw̄v Pv, Zvici eR̄K Kud Ges
tkl̄ tj qvi w̄U Āt̄i Ä t̄f̄v̄t̄i ^Zw̄i |

—wbxq gbxciyv gv‡K‡t‡K tKbv KvUv tk‡l Avgiv ev‡m Dw| evm Q‡U Pj ‡Q Avgv‡ i
wi ‡mv‡U‡P‡w‡K | hv‡lwei‡Z Avgiv iv‡Zi Lvevi tljvg kro‡tj i tgRewb ti ‡zi ‡U| kro‡tj B

Avgit` i wi t̄m̄U©X̄Kv t̄_t̄K m̄t̄j U m̄i w̄ t̄bi ev̄mi R̄w̄b©K̄i Avgit` i Ātb̄t̄KB K̄s̄l k̄D̄q
ik̄yK m̄t̄ivqvi t̄nv̄t̄mb m̄v̄t̄i Kov w̄b̄t̄ R̄m̄Kj t̄KB Z̄v̄oZ̄w̄ N̄ḡt̄q cōt̄Z n̄t̄e| i v̄t̄Z wi t̄m̄t̄U©
t̄N̄v̄i v̄N̄j Kiv h̄v̄e bv| m̄Kv̄j 7Uv̄i c̄t̄e©Avgit` i t̄ew̄t̄q cīt̄Z n̄t̄e| Avgivl eva" Qv̄l-Qv̄l xi
gZ th h̄v̄i i āg P̄t̄j t̄M̄j vg| Aek" k̄D̄q ik̄yK R̄v̄e` t̄nv̄t̄mb m̄v̄t̄i K_v cyj b Kīt̄ZI
Avgiv f̄j bvB| w̄Z̄w̄ Avgit` i w̄ḡt̄j w̄ḡt̄k, Ḡt̄K Acit̄K m̄v̄n̄h̄ Kīt̄Z, Ḡt̄K Act̄ii c̄t̄
mn̄ib̄f̄Z̄k̄j _K̄t̄Z et̄j b| m̄v̄i nv̄t̄m̄v̄3/4j Avi w̄ḡo f̄v̄l x ḡȳw̄ȳ` R̄v̄e` t̄nv̄t̄mb m̄v̄t̄i f̄v̄l q
"Avgiv mevB d̄j n̄tev, t̄KD Kv̄l v̄n̄tev bv|"

9 gvP©2020 Z̄wi L m̄Kv̄j m̄v̄Z̄Uv̄q t̄ew̄t̄q cīj vg i v̄Z̄v̄i M̄j t̄m̄v̄q̄p̄ú d̄t̄i t̄÷ i D̄t̄l̄t̄k̄|
i v̄Z̄v̄i j t̄m̄v̄q̄p̄ú d̄t̄i ÷ ev̄sj v̄t̄ t̄ki ḠKgv̄l w̄ḡv̄c̄w̄b̄i R̄j v̄eb Ges eb©c̄t̄ Afq̄v̄i b̄| ḠU
m̄t̄j t̄Ui t̄M̄v̄q̄BbN̄t̄U Aew̄Z| ēt̄bi AvḡZb 3325.61 GK̄i Avi Gi ḡt̄a" 504 GK̄i eb̄t̄K
1973 m̄t̄j eb̄c̄t̄ Afq̄v̄i b̄ w̄t̄m̄t̄e t̄N̄v̄l bv Kiv n̄q| GQv̄ov̄l 204.25 t̄n̄± i eb̄f̄ȳt̄K 31 tg
2015 Z̄wi t̄L ev̄sj v̄t̄ t̄ki eb Awa` Bi w̄t̄kl R̄x̄%w̄l P̄ m̄si ȳb Gj v̄Kv̄ t̄N̄v̄l bv K̄t̄i| ḠU
c̄w̄exi ḡv̄l K̄t̄qK̄iU R̄j v̄et̄bi ḡt̄a" Ab̄iKg ḠK̄iU| GB eb̄t̄K ev̄sj v̄t̄ t̄ki miK̄t̄ii eb
w̄ef̄v̄t̄Mi Aax̄b m̄si ȳb Kiv n̄q t̄Q| w̄P̄im̄eR GB eb t̄M̄v̄q̄Bb b̄xi Z̄x̄t̄i Aew̄Z Ges t̄P̄w̄
L̄t̄j i m̄t̄ Ḡt̄K msh̄ȳ K̄t̄i t̄Q| GL̄t̄b met̄P̄t̄q tēl̄k R̄b̄ȳq K̄iP M̄v̄Q (eÁw̄bK bv̄g
Milletlia pinnata) ēl̄t̄j GB eb 20-30 d̄l̄ c̄w̄b̄i w̄b̄t̄P w̄b̄ḡv̄3/4Z v̄t̄K| ēw̄K m̄v̄i ēQ̄i
c̄w̄b̄i D" PZv 10 d̄l̄t̄j ḡt̄Zv v̄t̄K| ēl̄t̄j GB eb A% R̄t̄j v̄t̄K P̄vi ḡv̄m| Z̄v̄ici t̄Qv̄U t̄Qv̄U
L̄v̄ j v̄t̄j v̄t̄q hv̄q cv̄t̄q P̄j v̄ c̄_| Avi ZLb c̄w̄b̄i Avk̄Qn̄q eb w̄ef̄v̄t̄Mi t̄L̄v̄av w̄ej v̄t̄j v̄t̄Z|
t̄m̄L̄t̄bB Avk̄Q t̄bq R̄j R̄ c̄t̄K̄j| ḡz̄v̄@v̄ c̄w̄U M̄v̄Q m̄t̄j t̄Ui t̄b̄x̄q f̄v̄l v̄q i v̄Zv M̄v̄Q b̄t̄g
c̄w̄IPZ| t̄m̄B iv̄Zv M̄v̄Q i b̄v̄ḡv̄b̄ȳt̄i Ḡt̄bi b̄v̄ḡ i v̄Z̄v̄i j |

m̄t̄j t̄Ui D̄Eice©t̄K Aew̄Z p̄v̄s̄q R̄j ev̄q̄y Ḡeb̄iU t̄Z̄eQ̄i f̄v̄i x ēp̄oc̄v̄Z n̄q
v̄t̄K| ēt̄bi meP̄v̄Bt̄Z K̄t̄Q Aew̄Z m̄t̄j t̄Ui Aven̄l q̄v̄ t̄K̄t̄` t̄Z̄_ḡt̄Z GL̄t̄b ew̄l R̄ Mo
ēp̄oc̄t̄Zi c̄w̄i ḡv̄b̄ 4162 w̄ḡj w̄ḡUv̄i | R̄jv̄B ḡv̄m̄U meP̄v̄Bt̄Z Av̄t̄Lb ēp̄oc̄t̄Zi c̄w̄i ḡv̄b̄ c̄t̄
1250 w̄ḡj w̄ḡUv̄i, Ab̄w̄ t̄K ēp̄on̄xb meP̄v̄Bt̄Z i v̄t̄ ḡv̄m̄U n̄t̄j v̄W̄t̄m̄t̄| tg Ges Āt̄±v̄t̄i m̄t̄q
M̄t̄o Z̄v̄gv̄l v̄ `w̄v̄q̄ 32° t̄m̄j w̄m̄q̄t̄m| Avevi R̄v̄b̄ḡw̄i t̄Z̄ GB Z̄v̄gv̄l v̄t̄b̄ḡ Av̄t̄m̄ 12°
t̄m̄j w̄m̄q̄t̄m| w̄W̄t̄m̄t̄ ḡv̄t̄m GL̄t̄bKvi Av̄t̄c̄t̄ȳK Av̄t̄Zvi c̄w̄i ḡv̄b̄ c̄t̄ 74 kZvsk hv̄ov R̄jv̄B ḡv̄t̄m
Av̄M̄ ÷ 90 kZvsk t̄ki I tēl̄k| %ēk̄o ḡv̄UZ GB w̄ḡv̄c̄w̄b̄i R̄j v̄eb̄iU t̄Z̄ D̄w̄M̄C i `t̄jv̄ t̄
c̄w̄i j w̄ȳZ n̄q| Dc̄t̄i i t̄iU ḡj-Z ēȳR̄v̄Zxq D̄w̄M̄C w̄b̄t̄q M̄w̄Z t̄hL̄t̄b w̄b̄t̄Pi t̄iU t̄Z̄ Nb
c̄w̄Uc̄v̄Zvi (ḡz̄v̄@AwaK" w̄ēv̄ḡv̄b̄| ēt̄bi D̄w̄M̄C i P̄v̄ t̄v̄q̄ m̄t̄ev̄P 15 w̄ḡUv̄i D" PZv ch©w̄ē-Z|
GQv̄ov̄l Ait̄b̄i 80 kZvsk Gj v̄Kv̄ D̄w̄M̄C i Av̄t̄Qk̄ t̄b̄ AveZ ēt̄bi t̄v̄r̄ m̄t̄s̄l RbK| GLb
ch©GL̄t̄b m̄t̄ev̄P 73 c̄R̄w̄Zi D̄w̄M̄C i m̄Üv̄b̄ c̄v̄l q̄v̄ t̄M̄Q|

GB eb gj-Z c̄t̄w̄ZK eb n̄t̄j I c̄ieZx̄t̄Z ev̄sj v̄t̄ k eb w̄ef̄v̄m teZ, K`g, w̄R̄j, ḡz̄v̄b̄
b̄v̄b̄v̄ R̄t̄Zi M̄v̄Q j w̄M̄t̄q̄t̄Q| GQv̄ov̄ R̄j ḡM̄ēB ēt̄b i t̄q̄t̄Q w̄R̄j, K̄iP, Avi eiab M̄v̄Q Av̄t̄Q
w̄Cv̄w̄i, AR̄j, Qw̄Zg, w̄URvg Av̄t̄Q ēU|

R̄j ḡM̄ēt̄j GB ēt̄b m̄t̄ci Avev̄m tēl̄k Av̄t̄Q t̄R̄v̄K I kK̄t̄b̄v̄ t̄ḡs̄t̄ȳḡ tēR̄I t̄`Lv̄ hv̄q̄
GQv̄ov̄l i t̄q̄t̄Q ev̄bi, B̄m̄v̄c, c̄w̄Li ḡt̄a" Av̄t̄Q m̄v̄i ēK, Kv̄b̄v̄ ēK, ḡv̄Qiv̄v̄i, w̄Uqv̄, ējeȳ,

NNy cvbKvi , Uc, Pj Ges evRcwL| kxZKv‡j ivZvi „‡j Av‡m ewij n‡n, mn c‡‡ cwi h‡q
cwl Av‡m nekjv vKvi kK‡l |

R‡j i b‡‡‡k W‡tq ` w‡tq _vKv etbi MvQ, ‡j v † L‡Z wewfb‡gq, wetkl K‡i elv©
‡g‡mtg GLv‡b wfo K‡ib ch‡OKMb| etbi w‡Zti ågb Ki‡Z `iKvi nq tb‡Kvi , Z‡e tmM‡j v
n‡Z nq w‡wO tb‡Kvi| w‡wO‡Z K‡i etbi w‡Zti Ny‡Z Ny‡Z †` Lw h‡q cK‡Zi i‡cm‡y| Z‡e
etb ågb Ki‡Z Ab‡wZ b‡Z nq ivZvi „j eb weU Awdm t‡K|

[Z_ m‡:https://bn.m.wikipedia.org/wiki/



eb” †Mvj vc



g‡v@v cwl MvQ ev ivZv MvQ

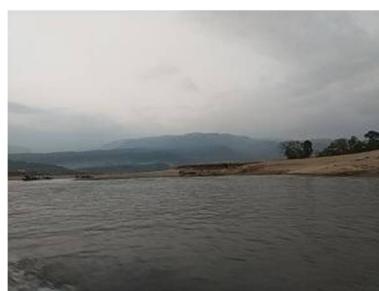


ivZvi „j tmvq‡u d‡i †

ivZvi ,tj ågþbi Kvnbx eb@ Ki‡Z †M‡j hvi K_v ej †ZB n‡e n‡j v Avg†` i M̄oi ḡS | m̄Z t‡K AvU eQ‡i iš Avi cÖešl †Q‡j Uvi m̄g÷ K‡Ui Mvb Avi Ams‡ my i evKcÖfv gy» K‡i †Q Avg†` i mKj †K| Avi Zvi Av‡gR Q‡q M‡qQj GKUzfveM‡k kÖq Avj Di ingvb m̄vi †K| m̄v‡i AevPwbK thMvthM Avi nvZ w‡q gy j Kvtbv nwm Avg†` i Rvbvb w‡Qj m̄vi I DctfvM Ki‡Q ev”Pv †Q‡j Uvi Mvb M‡j v | newfbodewcÖMv‡bi m‡_ mv‡_ tm Avg†` i m‡j †Ui AvÄwj K fvlvq ivPZ ØI dñ ZzAvg†`i fvj v cvl vbo MvbilU tkvbtZ †fv‡j wb|

Avg†` i `gyi Lvet‡i i cvj v Avgiv tbŠkvq e‡mB tm‡i wbj vg| tbŠkv hLb Rj ve× e‡bi g‡a cÖk Kij thb g‡b nj me‡R nwi‡q tM‡Q| tKv b gš‡Z me‡Ri Ai‡b“ Avgiv X‡KvQ Zv thb Avgiv X‡KvQ Zv thb Avg†` i we‡v‡i K‡i tdjj| GKmv‡_ dñ †j v R‡j DVj Avg†` i tdvb Kvtgvq Zv‡Z e` x n‡j v KL‡bv cwbi lci bxj AvKv‡ki AeQvqv cov Rj veb , KL‡b‡ev me‡Ri gqav myóKvix cwbi g‡a“ `wo‡q _vKv vRj , eiab , OmZg , K`g , teZ , wKsev ivZv| iaycÖZ. † Lv bq m‡_ mv‡_ Pjj newfbodewcÖi m‡_ ciwPZ ce‡Zv‡` i Wj , d‡ , dj mn newfbodewcÖ msMÖj Avj Di ingvb m̄vi Avg†` i †K newfbodewcÖ Mv‡Qj bvg I ^eÄwbK bvg wKvL‡q w‡j b Ges m‡_ mv‡_ Kov wbt` Rv‡tj b G‡j v KbZz‡j †M‡j Pj te bv; tgŠLK ci‡yvq aiv nte | Avi Avgiv I eva“ Qv†-Qv†xi gZ hvi hvi tbvUet‡K Ut‡K wbj vg| cÖ AvbgwibK `gyi ZbUvi w‡K Avg†` i ivZvi ,j Awfhwv tk‡l n‡j v|

Avg†` i evm Q‡U P‡j †Q m‡j †Ui tfvj M‡Äi mv` v cv‡i i w‡K| m‡j †Ui AmsL“ ch‡O †K‡` i g‡a“ Ab‡Zg bqbwfv‡g tfvj M‡Äi mv` vcv_i | tKv‡ubvM‡ DctRj vi aj vB b‡` i Drmg‡L Gi Ae‡v‡b| m‡j †Ui mxg‡s‡Zx‡KvU b‡` i bvg aj vB| fvi‡Zi tgNv‡q ivR“ †‡K tb‡g G‡m‡Q GuU| aj vB b‡` i Drmg‡L cvP‡GKi RvqMv R‡o Qm‡tq wQv‡tq i‡qtQ mv` v cv_i | lci‡i DP‡zcvn‡to tNiv me‡Ri gqavRvj | tmLvb †‡K tb‡g Avmv Sibvi Akv‡kZj cwbi A‡xi tetM etq Pj v| M‡b“ Z‡vZ @j vB‡qi ej| ^Q bvj Rj , mv` v cv_i Avi cvn‡Ri me‡R wgtj wgtk thb GKvKvi aj vB‡qi ejK Qm‡tq wQv‡tq _vKv cv‡i i weQvfv tkvfv ewotq w‡tq‡q nvRvi ,b| mv` v cv‡i i Dci w‡q etq Pj v Sibvi cwbi Z‡e‡t‡Z bqb Rg‡q| kxZj R‡j i ^ú‡k‡Q‡Y Rg‡q wbg‡tI | cv‡i i lci w‡q cÖj tetM etq Pj v cwbi Kj Kj k‡ä thb cMj Kiv Q` | ied Mj vi g‡Zv vUv tmB cwbi teky‡Y Mutfr‡j kix‡i k‡Zi K‡b tj †M hv‡l qui g‡Zv Ae‡v‡nq|



ajwB b`xi Z‡im mv` v cv_i



tfvj M‡Äi mv` v cv_i Avg†` i e‡v‡Pi mKj wK‡yv_x©

tdwi NvU t_‡K tbŠKv fvov K‡i gj_ Mše_ mw` cv_‡i i D‡i_ †k_ hLb Avgiv hv† i i æKw_ , tbŠKv hZ mvg‡bi AvMvq, g‡Zv ZZB evo‡Z _v‡K | aj vB b‡` i ^Q bxj R‡j tbŠKv Pj ‡Z Pj ‡Z tP‡L c‡o tgNvq tqi AvKvktQvq cvn‡toi mwvi | Pvi cv‡k tPvL avav‡bv me `k_ † L‡Z † L‡Z 25-30 v‡b‡Ui g‡a_ †c‡Q hvB b‡` i Drmg‡L | Zx‡i †f‡i tbŠKv | Zx‡i bvgtZB tPvL AvU‡K hvq cv_‡i i ^tc_ cv_i _‡jv me mw`v| mw`vi g‡a_ †bKI Kv‡jv c_i l Av‡Q | †Kv‡bvL L‡qvi | thb Gj vKv R‡j cv_‡i i weQv bv

cv_i gmočq Sibri Avevb | tKv_vl nvUzngvb Avevi tKv_vl tKvgi cwb | tKv_vl Zvi I
AtbK teik | cv_ti i Dci w tq Rj Mmočq cočQ ZòvZ@j vtqi gty | tfvj wMčAi mv`v cv_ti
mčq gnyeš Rvte` tnvtmb mvti i Kvtgiv Avgiv Zjj vg Avgit` i ðdtUwmčsUK -660 i
Mč Qne mv‡_ mšybZ wkyK-wkyKve` | mÜrtej v Amče my i tK we`vq Rwbčq tdivi c_
awi | qb ej wqj ,Avn! KZ Aciac tmš` th`i j xj vfu Avgvi GB t`k!

vi t̄m̄q w̄d̄t̄i mevB w̄ḡt̄j AvW̄ w̄j̄vg GK īdg ētm̄ M̄j̄ P̄ -66 ī nB ūt̄j̄ w̄ Avi
n̄v̄m̄v̄n̄w̄m̄t̄Z t̄d̄t̄U c̄īQ̄j P̄w̄īw̄K| M̄fxi īv̄t̄Z P̄w̄īw̄K̄ b̄ie w̄b̄-ā n̄t̄j̄ | Avḡt̄ ī Zīb̄ Zbȳb̄
K̄w̄s̄ī Q̄v̄c̄ t̄b̄B| B̄t̄"Q̄ w̄Q̄j GB Avb̄` Avḡt̄ ī w̄N̄t̄ī _KK̄ m̄v̄ī īv̄ZB| K̄s̄'k̄ȳK̄t̄ ī
K̄ov̄ w̄b̄` R̄Agȳb̄" K̄īv̄ī m̄v̄a" b̄v̄B Zv̄B ev̄a" n̄t̄qB N̄ūt̄q cōt̄Z nj̄ |

10 gvP©2020 mKv‡j Avgiv vi‡m‡U©Avg‡` i GKvU MÄ Qwe Zj‡j vg| tm§` th©cÖ‡
fiv m‡j U AvR Avg‡` i tkI `b| mKv‡j i bv` tm‡i Avgiv tMj vg tg§j fxevRv‡i gvaecy
tj †k| gvaecy tj K n‡vU tg§j fxevRvi tRj vi Kaj MÄ DctRj vi gvaecy BD‡bq‡b Aew-Z|
Kaj MÄ DctRj v m` i t_‡K gvaecy tj †k | ^Z;5 †K‡j wUvi | 1965 mv‡j Pv evM‡bi wUj vg
evai `‡q cwb Rtg‡q GB tj K ^Zvi Kiv nq| cÖ 50 GKI AvgZ‡bi gvaecy n‡ i ^N` 3
†K‡j wUvi Ges `b ne‡k‡l cÖ50 t_‡K 300 wUvi ch‡

gvaecij tj KtK wNti i tqjQ tQw eo cwo I wUj v | Avi wUj vq i tqjQ myk Pv evMwb
b'vkbyj wU tKvpuwb gvaecij Pv evMwb 11 bxt tmKktb AewZ, gvaecij
tj tKi tkvfv evovq mw'v I bxj cU dj | kxZKvtj GLvtb AtbK AwZ_x cwLil | AwMgb Ntv
chOKt` i wbivcEv Ges Pv evMwb eetvcbvi K_v wetePbv gvaecij tj tK mKvj 8 Uv nZ mUv
6 Uv chOKt` i Ae'vb KtZ t'q nq |

gvaecy tj tK Gtm Avgv‡ i wmtj U ågb cb‡ tcj | Kvib GLvtbB ` y cvZv GKUJ Kjy
† k wmtj tUi tm§` hPv evMvbö Avgiv Ly KvQ t‡K †`L‡Z tcj vg| mlyj AvKvK, Mvo mey
cvnvo, wkí xi Zj‡Z AvKvQmei gZb gtbrig Pv evMvtbi †`k, th tKD gtbi Mntb nwii tq
hvte Avcb gtB| Pwiw †K md"p cvnvtoi gvSLvtb Aew-Z tj KvU miz AceP tj tKi Sj gj
Rj , Qvqv myneeo cwi tek, kvcj v kuj tKi Dcwtz Avtiv gtbrgy Ki Kti Ztj tq cwi tek| Avi
GB iæcmay `kP KitZ Avgiv m`jetj MtblQj vg cÖzi Aciæc tm§` thP j xj vfig
tqsj fxevRvi tRj vg Aew-Z gvaecy tj tK|



gvaeciyW Gvt÷U I tj K



gvaecy tj tKi bxj cÙ



gvaecy Pv evMvi



gvaecy tj K I Pv evMvb



gj tMU w tq cök Kti Avgiv wZb t_k Pv i wgiB U nvUj vg| Zvi cti B GKUJ evai evai
Aci cÖSB tj tKi iiæ AvmtZ AvmtZ hZB mgftbi w tK AvMvZ wK, ZZB fvij v j vMv
evotZ vK| tQvU eo cvnftoi cvkv w tq AvKv evKv fvte etm Ptj tQ tj KU | tj tKi
gvSLvtb dU _vKv nvRutiv te, b kvcj vi tmh hP tL iaygy bqtb ZwKtq vKtZ nq| GiB
gvts GKSUK cwl Avgit`i Avgsh Rvbvij v Zv`i myi gQw w tq| Qwei gZv myi mwvi
mwvi Pv MvQ eK wbtq `wo tq DPwvJ v, Mvp meR cvnvo Avi gv vi Dci mbxj AvKv| tj tKi
-Q bxj vf Rtj AvKtki cÖwele Avi dU _vKv AmsL v kvcj v kuj tKi Aj sKib thb wkixi
Kibi i t% AvKv tKv wLj Qwe| Pwiw tK mD" P cvnftoi gvSLvtb AewZ tj KU Zvi Ace©
iatci gvvv Qwotq etm AvQ PvPvc|

mgq QwU Ptj , Avgit`i tdivi mgq | ZvB KvQ Ptj Avtm| Avgiv ZvB e-Intq coj vg
gvaecy tj tKi Qwe avitb, wCÖeÜz i mv_ wbRtK Kvtgiv x KitZ GgbwK wCÖwkytKi
mv_ I | Avj Di ingvb mvi Avgit`i Pv evMtbi tfZi tvcb Kiv wfbcwQ , tj vtK wPwtq
w tq b| Avgiv hvi hvi tbvUetK gtbvthwMx QwT i gZ UtK wbj vg|

Gicib wQj Avgit` i wmtj U Uzii metP tq AvKl@q Ask| kDq Aj Di ingib mvi Avgit` i 66- e@Pi Rb` wi tmU@tmB wj tL@Qb KneZv| Avej Kvtkg mvi Ges Avgiv mevB wgtj mvi tK AtbK Abjiva RvbvB KneZvUv Avgit` i cto tkvbtz| kDq Aj Di ingib mvi wKs` Avgit` i tm Abjiva wdti tq t` bwl| mvi Avej Kti tkvbtj b Zu` -NPZ KneZv hv AbjCovri Qvc ti tL tMj Avgit` i Ziab gtb| Avgiv mevB AvteM Avi Z n@Qj vg GB tfte th mvi Avgit` i Rb` KneZv wj tL@Qb| wC@ wK@KM@bi GB fwtj vewm Avi AbjCovB tZv Avgit` i msM@y i w b,tj vi m@x| tj KPvi LvZvq m@ti i tj KPvi tUvKvi mvt_B Avg mvi KneZvI UtK tdtj wQj vg GK d@K| nqZ tKvb GKw b t` Le Avi mg@bi Pj vi w tK GwM@q Pj vi Rb` wi PvR@e| meR cvZvi m@ZR MÜ Avi Pv evM@bi gtbvig `k` Avgit` i wtfvi Kti ti tL@Qj , teLq@j wbtq wM@Qj wfb@K RM@Z| wKs` wdi tZ gb bv PvBtj | Avgit` i wdi tZ nte|

Avej Kvtkg mvi Avgit` i bvg ati t tK tPK Kti wbtj b Avgiv mevB evtm D@VwQ wK bv| Avgiv Gevi hwQ j vDqvQov RvZxq D` v@b| j vDqvQov RvZxq D` v@b evsj vt` tki AbZg RvZxq D` v@b Ges Aewko wPin@r etbi GKw D@j b@thM` bgw| GwJ GKw msivYz ebiA@j | evsj vt` tki 7w ebct Afqvib` I 10 RvZxq D` v@b bi gta` GwJ AbZg| tgSj fxevRvi tRj vi Kj gmÄ DctRj vq AewZ 1250 tn±i GB eb@K RvZxq D` v@b vntmte tNvI Yv Kti | wej @c@ Dj@K Rb G eb weLwZ| Dj@K QrovI GLv@b itq@Q newfbce@wZi `j@RxeRš, KxUcM% Ges Dw@C| wej y@q AAtj i wPin@r el@b ev tiBb dti@i g@Zv GLv@b c@Z evpcvZ nq| m@h@Avtj vi Rb` c@thwMzv Kti Getbi MwQcvj v L@ DPntq _vtK Ges AtbK Dcti Wwj cvj v Qwotq P@` vqvi gZ myo Kti | GB eb G@Zv Nb th gwU@Z m@h@Avtj v cto bv ej tj B P@j GwU@K evsj vt` tki metP tq eo AwZeo Aeb` Gj vKv vntmte wPwYz Kiv nq| j vDqvQov ebw@tj itq@Q 167 c@wZi Dw@C| AvtQ MR@, tmub, Mvgvi, tgbwRqvg, Rvgi@j , Pvcmj k, bw@Mk, wKgj, tj vnvKv, Rvg, Wgj, Zb, KovB c@Z| bwv c@t@i t` kxq MwQ t` L@Z cvl qv hvq| GQov c@wZK ci@t@k bwv ai@bi AwK@t` L@Z ntj | G eb GK Ace@b|

tgbB@M@Ui wfZi w tq Xk@ZB `wqZjZ Kg@Z@Kg@xi@ Avgit` i n`UgvBK eenvi KitZ wbtla Kitj b| Kvib GwJ evb | Dj@K tki Afqvib`| wK@K wKwYKwMY Avgit` i mKj tK wKq@x Kti w tjb Avgiv thb `j PZB bv nB Ges Z@i mvt_B wK| ZvQovI GB eb wec` k`g ZvB thb wbtR@i tLqyj i@L| Aj Di ingib mvi, Rvte` tnvmb mvi, wi d@Z, mvgv` gvg Ges tgvnw@ Avgiv Kvtkg mvi Avgit` i newfbce@Q m@u@K@j tj b| mvt_ mvt_ newfbce@Q@i bgw| Avgiv msM@Kij vg kDq wK@K M@Yi wbt@R| etbi gta` mevB nvU@Z Kó nwQj wKs` AtbK L@kI j vM@Q@j v| mevB wgtj KiwQ bgw msM@ Rvbv ARvbv Mw@Qi Qwe tZvj v, wK@K M@bi tj KPvi ,tj v@K wj tL ivLv BZ@w | GBfvteB Avgiv thb GB KtqKw@b m@Z`Kvti i GKuv ci@evtii n@q D@VwQj vg| th ci@evtii mevB wgtj t` L@Z G@miQ, tKs@j wgtZ G@miQ| ga` etbi gta` n@wZ n@wZ Avi gRvi K@ej tZ ej tZ Avgiv N@j tdj j vg ct@i D` v@b ci@wZ nj vg ARvbv epr wKsev y@Z@KZ th Mw@Qi mvt_!!



ଅନ୍ଧାରୀ ପ୍ରକଟିକ
ନାଇଶାହୀ ଜାତୀୟ ଉଦ୍ସମ
କମଲାପୁର ମୋରଚେତାଳୀ



ଆଜାଣି
ଚିକ୍ରାସି/Chickrasi
Chickrassia Intularis



j vDqjQov RvZxq D` vtb msi wjZ wefbaej cRwzi MvQ

Gevi Avgyt` i tdivi cvjv| j vI qjQov RvZxq D` vtb Avgyt` i tkI GKUw MvQ
tZvj vi ci Avgiv Mwo‡Z D‡V coj vg| wmtj tUi tmB weLvjZ cvbkr ti ó‡i †U `gti Lvevi Pk‡q
Avgyt` i Mwo Q‡tQ K‡vú‡mi c‡Y| BwZgta Avgyt` i Pv Ges wmtj tUi mwZKovi AvPvi tKbv
tkI | wmtj tU G‡tmQ Avi Pv Ges mwZKovi AvPvi wKbe bv Zv wK nq!!

gnwmoK w‡q h‡Zô `‡Z MwZ‡Z Avgyt` i U‡i i evm Pj †Q| †Qto hwQ tm‡` th‡c‡D‡
fiw wmtj U wefM, tQto hwQ `‡ob` b me‡R tgiov cvnv‡i i tKvj tMIv cv‡ji b`x, Sibv, eb, Pv
evMvb, bxj Rj iwki nwI‡i, mgx Pv‡qi ivRawbx| Avevi K‡e Avm‡ev Rwb bv| m‡‡ nqZ
_vK‡e bv wC‡mncvLxiv, wC‡ikyKMY| mevi g‡b wKQ‡v Lvivc j vM KvR Ki‡j I wd‡i th‡ZB
nte wC‡kn, wC‡bM‡i | Kv‡cvk‡‡mevB Nwjtq Nwjtq Ptj Avmj vg c‡Q biwms`x ch‡

evm XvKvi KvQvKwQ Avm‡ZB Avejy Kv‡kg m‡vi Ges Rv‡e` tnw‡mb m‡vi ev‡mi g‡a
Av‡v w‡tj b Avgyt` i mw‡_| c‡tg Rv‡e` tnw‡mb m‡vi Ges Zvici Avejy Kv‡kg m‡vi Avgyt` i

mw‡_ Zv‡_ i U‡ii AwfÁZv tkqvi Kitjb| Zvici Avgv‡_ i m‡hvM K‡i wQ‡jb Avgv‡_ i AwfÁZv eY@ Kivi Rb_ | Zvgvbçemv` , bvBgy, ZmK, gwbiajmn mevB Avgiv Avgv‡_ i AwfÁZv , tjr ej jvg| gRv KitZ KitZ Ptj Avgmj vg K‡v‡wutm| Zeý tKv_vl thtbv GKUv
welv‡_ i my| th hvi gtZv c‡vRb Abym‡i tbfg hv‡Q evm t‡K|

ḡtbi ḡta" GKUzLvič j̄Mv KvR KiMQtjv, KtqK w̄b GK m̄t_ t_łK mevB th̄bvw
m̄Z'Kv̄ti i cwi evi n̄tq M̄tqQj vg| Rv̄te` tn̄mvBb m̄vi Avgyt` i Rb" m̄tj U t_łK Avbvi m̄
KtbWtj b&hv̄l qvi mgq Km̄ w̄ctc R̄tUJiv tm̄tj v Avgyt` i w̄w̄Qj | w̄cQ w̄k̄yKt` i GB
Avšli KZvq Avgiv thb Qv̄t- w̄k̄yK GK ` p̄ t̄b̄i eÜtb Ave x nj vg| k̄d̄q Aw̄j Di ingib
m̄vi I m̄tivqvi tn̄v̄tmb m̄v̄tii Kov k̄vmb, Avi t̄oek̄d̄q w̄dvZ mwgv̄ ḡvg Ges Ave y Kv̄tkg
m̄v̄tii Avgyt` i c̄t̄z m̄v̄ m̄ZR̄ bRi, ḡgv̄s Rv̄te` tn̄mvBb m̄v̄tii i m̄v̄n̄v̄t̄m̄Rj ḡy | Avri
t̄oAvgyt` i AvMtj ti t̄L̄Qj GB Kqiu w̄b | iaymnccw̄t̄ i bq w̄cQ w̄k̄yKt` i t̄Q̄to th̄ZI
Avgyt` i ĀtbK Kó nw̄Qj |

evn Ptj Avmtj v K^uvúftm, cwi mgw^uB ntj v wefvMxq GKU wkyv md*tii* | -^uZi cvZvq
Rgv ntj v Av*tiv* GKU tmvbuj x Aa^uvq |

cnēt̄ Dm̄c̄

W: tḡv̄-dv̄ Kvḡyj c̄kv̄

c̄l̄mi (Ae:), Dm̄c̄-Av̄b m̄f̄M, P̄em̄q̄ m̄ek̄l̄ `v̄j q̄, P̄em̄q̄ |

cnēt̄ Dm̄c̄ Averi Kx? Dm̄c̄ Averi cnēt̄ nq̄ Kxf̄v̄te? n̄v̄nq̄ j̄ ȳ Kīt̄j̄ t̄ Lv̄ hv̄te,
c̄lexi c̄Q̄ m̄Kj̄ Rbt̄M̄oxi ḡtā m̄ek̄l̄ m̄ek̄l̄ w̄Kozt̄j̄ v̄Kv̄P̄vi īt̄q̄t̄Q̄; thgb- agx̄p̄ m̄vs̄w̄ZK
Ab̄yb̄, Rb̄ȳḡZ̄ Ab̄yb̄, m̄ev̄n Ab̄yb̄, aḡp̄w̄K̄Z̄, ḡv̄beq̄ m̄vs̄w̄ZK Ab̄yb̄, Z̄šḡš̄i hv̄ ȳ
f̄t̄b̄c̄Ø̄ Zv̄ōt̄b̄ ev̄ Zv̄t̄ ī t̄_t̄K̄ ī ȳ c̄v̄l̄q̄ S̄lod̄K̄ BZ̄w̄ | Ḡ m̄Kj̄ t̄j̄ v̄Kv̄P̄vi m̄ek̄l̄ w̄Kož̄
`v̄bxq̄ Dm̄c̄ ī ēenv̄i j̄ ȳ Kiv̄ hv̄q̄ | Ḡ t̄_t̄K̄ mn̄t̄R̄ Ab̄yb̄Z̄ nq̄ th̄, Ḡ m̄Kj̄ t̄j̄ v̄Kv̄P̄vi th̄ m̄Kj̄
Dm̄c̄ ēenv̄i nq̄ Zvi w̄C̄t̄b̄ GK̄ GK̄U NUb̄, m̄ek̄l̄ ev̄ ēenv̄i ī aib̄ I c̄x̄w̄Z̄ n̄v̄r̄ K̄t̄ ī īā
nq̄ib̄ | c̄Q̄ K̄U NUb̄ w̄C̄t̄b̄ m̄ek̄l̄ t̄Kv̄b̄ K̄v̄Ȳ īt̄q̄t̄Q̄ hv̄ K̄t̄q̄K̄K̄Z̄ ev̄ K̄t̄q̄K̄ n̄v̄r̄ī er̄m̄t̄ī ī
ḡbe Rx̄eb̄i īw̄Z̄b̄w̄Z̄ Ask̄ n̄t̄q̄ Av̄m̄t̄Q̄ Ges̄ GLb̄I Zv̄ ēv̄c̄K̄f̄v̄te c̄w̄j̄ Z̄ n̄t̄q̄ Av̄m̄t̄Q̄ | Ḡ
av̄v̄q̄ c̄Q̄ K̄U w̄P̄ȳZ̄ Dm̄c̄ c̄Q̄w̄Z̄ w̄C̄t̄b̄ GK̄ ev̄ GK̄w̄K̄ NUb̄ ḡbe ḡt̄bī M̄fx̄t̄ī `v̄b̄ K̄t̄
`v̄b̄t̄q̄t̄Q̄ | Av̄āb̄K̄ w̄Áv̄b̄ M̄tēl̄ Ȳq̄ GB̄ w̄el̄q̄U GLb̄ GK̄U Av̄K̄Ȳq̄ kv̄L̄ w̄nt̄m̄tē w̄P̄ȳZ̄ n̄t̄q̄t̄Q̄ |
Ḡ av̄v̄q̄ GLb̄ ew̄ȲR̄K̄ īāZ̄ tek̄ j̄ ȳȲq̄f̄v̄te AM̄ō n̄t̄Q̄ |

t̄Kb̄ Ges̄ w̄K̄f̄v̄te m̄ek̄l̄ m̄ek̄l̄ Dm̄c̄ ī m̄v̄t̄_ ḡbe GB̄ m̄ek̄l̄ m̄v̄úK̄Z̄w̄ n̄t̄q̄t̄Q̄ Zvi
c̄D̄b̄eD̄ī L̄ȳ KḡB̄ c̄v̄l̄q̄ hv̄q̄ | Av̄āK̄v̄sk̄ t̄ȳt̄ī D̄Ēī Av̄t̄m̄ th̄, c̄Q̄w̄U cēc̄ȳt̄l̄īv̄ ī īā
K̄t̄īw̄Q̄t̄j̄ b̄ Z̄v̄B̄ GLb̄I c̄Q̄M̄Z̄f̄v̄te ēēūZ̄ n̄t̄q̄ Av̄m̄t̄Q̄ | thgb- c̄lexī Av̄āK̄v̄sk̄ t̄_t̄k̄ Z̄j̄w̄
GK̄U cnēt̄ Dm̄c̄ w̄nt̄m̄tē f̄īw̄Z̄ nq̄ | Av̄ī Gī cnēt̄ Zvī Dr̄m̄ I Zvī ēenv̄ī īw̄Z̄b̄w̄Z̄ GK̄
īKḡ b̄q̄ | Gī w̄C̄t̄b̄ īt̄q̄t̄Q̄ b̄Z̄w̄ĒK̄ B̄w̄Z̄n̄v̄, B̄w̄ZK̄_v̄, K̄īb̄, c̄Q̄ I t̄j̄ Š̄KK̄ DcL̄v̄b̄ | Z̄t̄
agx̄p̄ḡ-t̄evā I m̄ek̄l̄ Gt̄ȳt̄ī c̄ēj̄ t̄ Lv̄ hv̄q̄ | GLv̄t̄b̄ D̄t̄j̄ b̄ th̄, c̄Q̄ t̄ȳt̄ī cnēt̄ Dm̄c̄ Averi
GK̄ GK̄U Ÿ̄m̄v̄úb̄ōl̄ax̄ Dm̄c̄ w̄nt̄m̄tēl̄ mḡw̄īw̄P̄Z̄ | w̄K̄š̄, GLv̄t̄b̄ cnēt̄ Dm̄c̄ ēenv̄ī t̄ȳt̄ī
J̄l̄ax̄ Ÿ̄v̄ Ÿ̄v̄ Ÿ̄m̄v̄ú³̄ Kiv̄ nq̄ b̄v̄ | Z̄v̄b̄ cnēt̄ Dm̄c̄ ī ēenv̄ī I ḡh̄c̄v̄ `v̄Z̄š̄ḡq̄ I ^ēw̄k̄ōḡq̄ |

ēZ̄ḡt̄b̄ Av̄āb̄K̄ m̄f̄-Z̄v̄q̄ Āt̄b̄K̄ Rb̄H̄w̄Z̄t̄n̄ī av̄v̄w̄ej̄ x̄b̄ n̄t̄j̄ I agx̄p̄ īw̄Z̄b̄w̄Z̄ Ges̄ m̄vs̄w̄ZK̄
H̄w̄Z̄n̄ c̄ēj̄ _v̄Kv̄ cnēt̄ Dm̄c̄ ī ēenv̄ī j̄ ȳȲq̄ | Dm̄c̄ GKB̄ c̄Q̄w̄Z̄ī n̄t̄j̄ I w̄en̄f̄b̄ōt̄k̄ī
B̄w̄ZK̄_v̄ I t̄j̄ Š̄KK̄ DcL̄v̄b̄ GKB̄ īKḡ b̄q̄ | Averi GK̄ GK̄U Dm̄c̄ c̄Q̄w̄Z̄ī cnēt̄ Zvī ḡj̄v̄q̄b̄ I
^ēw̄k̄ōl̄ GKB̄ īKḡ b̄q̄ | Z̄v̄b̄ t̄Kv̄_v̄ t̄Kv̄b̄ GK̄U Dm̄c̄ tek̄ , īāZ̄c̄Ȳc̄Averi t̄Kv̄b̄U Kḡ
, īāZ̄c̄Ȳc̄ GLv̄t̄b̄ D̄t̄j̄ b̄ th̄, cnēt̄ Dm̄c̄ Zvī w̄b̄w̄ Ÿ̄Kv̄t̄R̄ ēenv̄ī mḡq̄ w̄b̄w̄ Ÿ̄f̄v̄tē M̄v̄w̄
ēR̄q̄ t̄īt̄L̄ m̄ek̄l̄ w̄b̄q̄ḡ t̄ḡt̄b̄ Z̄v̄ M̄ó̄Ȳ, c̄Q̄b̄ ev̄ ēenv̄ī Kiv̄ nq̄ | Ḡt̄ȳt̄ī ēw̄³̄ Zvī ḡt̄bī f̄v̄ē I
Av̄PīȲ b̄v̄b̄v̄f̄v̄tē c̄Q̄k̄ K̄t̄ _v̄K̄ | w̄Z̄b̄ Ḡ mḡq̄ w̄b̄w̄ Ÿ̄Z̄š̄ḡš̄ev̄ agx̄p̄k̄ā D̄P̄vīȲ K̄t̄ī Dm̄c̄U
w̄b̄q̄ḡb̄b̄w̄q̄ ēenv̄ī K̄t̄b̄ |

cnēt̄ Dm̄c̄ ēenv̄ī t̄ȳt̄ī m̄ek̄l̄ w̄K̄z̄ēw̄k̄ō tek̄ j̄ ȳȲq̄ | Av̄āK̄v̄sk̄ t̄ȳt̄ī `v̄t̄b̄ t̄īt̄L̄
Dm̄c̄ ī m̄v̄úȲc̄ n̄t̄K̄ aiv̄ nq̄ Averi t̄Kv̄b̄ t̄Kv̄b̄ t̄ȳt̄ī `v̄b̄ t̄_t̄K̄ Z̄t̄j̄ Ḡt̄b̄ ēenv̄ī Kiv̄ nq̄ |
thgb- hLb̄ GK̄U Kj̄ w̄M̄Q̄ ēenv̄ī Kiv̄ nq̄ ZLb̄ Zv̄ Z̄t̄j̄ Ḡt̄b̄ Ab̄yb̄t̄b̄ t̄j̄ w̄b̄q̄ Av̄m̄v̄ nq̄ |

Avevi tKvb tKvb tÿ†† tKej Dw™Disk, thgb- cvZv, dž, dj ev exR cne† etj gtb Kiv nq |
- vKv cne† Dw™c cööBZ euel Rixex ejy RvZxq Dw™c ntq vK| thgb- eU, cvKz,
evDeve (Baubab) | Gi/c tÿ†† Dw™c i mꝑuYQ niJ cRbxq | Avi hw cvZv, dž, dj ev
exR ev weiar nq Zte tmty†† Dw™DiskiJ cRbxq bq, Zv tKej ^bte^ ev cni tek cne† Ki†Z
eenvi Kiv nq | wKQztÿ†† cRbxq Dw™DiskiJ MÖ Kti cÖöñsgZv tfwM Kti AwañZK
RM‡Z cñek Kti | tKvb tKvb tÿ†† Zv -MgvK tcSÖntvri Avkq ev t-e-t exi m‡v
thwMthwMi ev -vÿ†Zi Rb Zv tL‡qI vK| G mKj cne† Dw™c GKKfvte A_ev GKwak
Dw™c GKB Abv‡b eenvi nq |

A t b K D w M C A v t Q h v e Z g t b A _ Q r i x D w M C m n t m t e e u j c w i w P Z ; w K s ' t K v b t K v b m p u a v t q i w b K U Z v c w e t D w M C m n t m t e l c w i w P Z | t h g b - t g w t K v t Z A t b K m p u a v t q i w b K U f t v , f v i t Z A t b K m p u a v t q i w b K U a v b , w z , g w y j ; B i v t b W w j g ; w m w i q v t Z t M v j v c A _ Q w i Z K F v t e i a Z c Y g t j I Z v t m L v t b c w e t D w M C m n t m t e l M Y n q | G m K j D w M C g v b e g t b w e f b o t e c O e w e t l i K t i , d t j G K m q q k o e v f v j e v m v i e - n t q h v q |

Cuxi newfbcdetk AtbK btMmoi gta" cob AvtQ th, eyj nt"Q t`e`Z Ges GKBmt
kqZtbi I Avem-j | Gifc meklml AvtQ th, Dm"C gvbj i Rb" thgb te`bv I ggreovi KviY
tZgib GKB mt _ti Mema, mgwRK AbvPvi t_K gpi i KviY | Gme KviY metkI metkI
etyi co gvbj i Avb', kQ I fq (thgb- AtbtKi KtQ tZj, eU nt"Q fZtco vtK
Gifc) - ZtuZte ngk AvtQ | ZvB tm mKj eyjK t`e` exi coKx gz@tb Kti cRvi e`
ntmte cob NtUtQ | dtj tm mKj eyjK Nti newfboAvPvi-Abgtbi cob ntqtQ; hvi
gratg gube gtb AvwZK consíNtU | ZvQov etyi euea DcKwi Zv Ges Zvi myk"Zvi
KviYI gube gtb th couZK fuj evmv Rblq Zv Ab" tKb tytt cvl qv hvq bv neavq etyi
co gubeKj i Ubb Avw t_K ez@b chomgfte neivR KtQ | G fvevb t_KB tKb tKb
Dm"C gbegtb metkI tiLcvZ Kti | Gi dtj ZLb Zv cuut ntq DtV | AtbK t`e` ex metkI
metkI etyi ubP avbgMotq mwx j uf Kti tQb; thgb- j Woke, fMevb ex | AtbtKB ZvB tm
mKj eyjK t`e` ex ev fMevb i coKitc t_L | Gi gratg ew³ Zui fMevb ev moKZP
uP ev ifc tLZ cvq | ZLb tm Dm"OU cuut ntq DtV | ZvQov Avw tZ AtbK agAib,
AvwZK mkyv Quq mkxZj etyi ubP etmB msuv' b ntZv | tmtytt I metkI metkI eyuU
mguR ZLb cuut Dm"C ntmte gvbZ i iKti |

gvb³ i gta³ tiM-³kv³Ki NUb³ Anin N³U| G t³K g³ cveri Rb³ Dw³C GK³ Dcr³ vb
nt³mte w³W³Y³Z nevi ci gvb³ G vbtq c³lbqZ w³PS³ | Mte³Yv K³i h³Q| t³Lv t³Mj, w³Ko³
Dw³C i gta³ tek hv³K³ kv³ itqtQ hv M³O³ Kit³ Zv³ AZ tiM-³kvK t³K g³ Ki³Z cv³i |
GB v³ekl³ ygZvi Rb³ Aw³ g gvb³ i gtb v³ekl³f³e v³M Kv³U| Zviv Dw³C i G mKj hv³K³
ygZvi Rb³ Dw³C³K m³oKZ³f³e tbq| Avi ZLbB Dw³C³U³K cne³ g³b
K³i tbq|

fvi Zeſt! ©eū mbvZb ag@ej x̄t tj vKRb emevm Kti | GQovl eū bZ^WEKT^MWō Zv‡ i
‐VZS;Zv eRvq ti‡L Zv‡ i mvs^WZK i x̄Zbx^WZ cvj b Kti Avm‡Q | G mKj m¤ú^avqf³ tj vKRb

eū cØZi DvMCK Zt` i agx@ixZbxZtZ Aw` Kvj t`K e`envi Kti AvmtQ| G m¤úKØ AtbK agMS tj ŠKK DcLvb, cijY I Kwnbxi Z_ wj wce× ntqtQ| w` yatg@eū wj wce× Z_ itqtQ thLvtb ejv ntqtQ ejy nt`0 t` et` exi Avevm`j | ZvB ejy cBv ev ejy tK Nti AtbK tj ŠKK Kwnbxi tek cØ b ntqtQ| ejy tK AtbK tÿt† tmŠfvM`i cØK, A`k` fvM`i mnvqK, mšlBZj, Avevm`j `vZv Ges Act` eZvi cØtivaK wntmte wekym Kti AvmtQ| Aw` wj wLZ kv`jev MØ tji nt`0 te` (Vedas), cijY (Puranas), ivgqb (Ramayana), gnvfviZ (Mahavarata), MxZv (Gita), gbyysnZv (Manusamhita), ^tZq msinZv (Traitti Samhita), Mpmf (Grihya Sutra), (me tji wLce@ngtq iPZ); thLvtb DvM`Zv etÿi cØ kØ I , YgyZv cØK Kiv ntqtQ| tmLvtb ejy tK, ejy-cwi tek tK t` e` t` exi AvkØI cØ“Qne wntmte iPÝZ ntqtQ|

Lj atg© †` Lv hvq th, K0zcQ ev mgvRK iZbxZ tg‡b Ptj | L‡oi RbW b cvj tb
mungv mU^a (Christmas tree) w‡q Ab‡b m‡Z Ki‡Z †` Lv hvq | Bmj vg atg© K0z
Dw™‡K cwe† etj aiv nq| we‡kl Kti tLRy (AvRI qv tLRy), Wgy, Rj cvB (Olive),
tg‡n‡w (cvZv) | G mKj Dw™‡ atg© M‡xi tc‡Z n‡Z †` Lv tM‡Q | Dw™‡ t‡K Kvô Ges KvW
cvl qv hvq | †` Lv tM‡Q GB Dcv` vb, tj v c‡Bi Avkvq cwe† Dw™‡, tj v KvUv nq bv ev Zv Ryj vbx
wnt‡te l eenvi nq bv| tKej G mKj Dw™‡ i KvW w‡q †` et` exi gwZ©Zwi Kiv h‡te| mó
gwZ©j v Aevi K‡qK ai‡bi Dw™‡ tZj w‡q gyLv nq| AtbK gw` i ev MxRv©KcvU, tpŠKvW
ev Lj vb ^Zwi Ki‡Z tKej cwe† Dw™‡ i KvW eenvi nq| fvi‡Zi Dwol`vi weL`vZ RMboe
gw`‡i RMboe c‡j †` eZv wbg KvW w‡q ^Zwi | tcb‡j i weL`vZ KvôGÜc
(Kasthamandap) gw` iU kvj KvW w‡q ^Zwi; thLvb t‡K tcb‡j i ivRaibxi bvg KvVgÜ
ntqtQ; tmLvb kvj Dw™‡ fMevb Bw` ivi c‡K | Aevi ex‡` e Zvi cw_© Rx‡bi tkI iwl
kvj M‡Qi wbP AwZewnZ K‡ib |

Cnēt Dw̄m̄c, tj v cābZ Dc̄mbv̄j q | t̄ ēt̄ exi m̄½ m̄úK©_Vkj | w̄KoZDw̄m̄c M̄öb̄ȳt̄ i
 m̄t̄_, thgb- kwb M̄ö er̄-w̄z M̄öev m̄bw̄l q̄j w̄b̄q īf- Āīt̄fi c̄öe_ v̄k hv agx̄p̄ek̄mi
 m̄t̄_ m̄úK© Gt̄ȳt̄ ĀtbK Dw̄m̄t̄K c̄Rvi ē- w̄nt̄m̄te w̄p̄ȳZ Kiv nt̄q̄t̄Q| m̄çZ c̄l̄ext̄Z
 ēycRv | Gi Dcv̄` vb Aw̄g mḡt̄Ri Gkiu agx̄p̄mis- w̄ZK īw̄Zb̄w̄Z w̄nt̄m̄te c̄ÖMZfv̄te cw̄j Z
 nt̄q Av̄mt̄Q| m̄z̄vs, t̄ Lv t̄M̄t̄Q, ḡvb̄j i aḡ agx̄p̄mis- w̄ZK Rx̄et̄bi m̄½ Dw̄m̄c i tek Mfxi
 m̄úK©t̄q̄t̄Q| G m̄Kj Ab̄yb er̄mi w̄f̄ĒK, ḡm̄w̄f̄ĒK Ggb̄w̄K w̄b̄w̄f̄ĒK1 nt̄q_ v̄k | w̄z̄t̄Zi
 j vḡiv f̄Mevb et̄x̄i ḡz̄Cz̄wi K̄t̄ib īv̄Bw̄q̄ (Wrghitia speciosissima) Ges k̄Ö½v̄q P̄uūv̄
 M̄t̄Qi Kv̄ w̄t̄q̄ | K̄wi dv Rv̄Zx̄q Zv̄j M̄t̄Qi (Corypha umbraculifera) cv̄Zv̄q tēs̄ aḡM̄o
 w̄j w̄Lz n̄q | ĀtbK c̄w̄c̄t̄ m̄w̄vi Y Zv̄j cv̄Zv̄q (Borassus flabelifer) tj Lv nt̄Zv̄ |

DW^MCW cWeW t nWl qvi KWvY t GWKWU DW^MCW cWQWMZfWt eWcW ev cWeW t wWnWt mWt e MWYW nevi wWKWOzKWvY iWtqWtQ hWv bWbWo dWeW t

1| th Dw¶ i m¶z t`eZj ev t`eZj exi Ni¶bô m¶úK@tqfQ ev Zvù e¶envi Kti¶tQ Ggb
k¶, fvebv ev Kí bv t¶K;

2 | tKvb t` eZj ev t` eft` exi Av`ibv ev Dcumbvj q Nti iL ev cOgr ev agx@caOKuZtZ
Nti tiL Qvqv `vb Kti Ggb fvebv t_#K;

3 | tKvb t` eft` exi ev Dcvm#Ki t` n ev t` nsk t_#K mpo ifc tKvb Dw#C i mpo ntq#Q Ggb
Kib ev nek#m t_#K (D`vt iæ y, *Elaeocarpus ganitrus*);

4 | tKvb t` eft` ex, DcvmK, mvaK Gi ms`uk@Gtm#Q A_ev Zvi cQf` i Dw#C mQj Ggb
fvebv t_#K;

5 | tKvb agm@tKvb Dw#C#K tKvb D#f`#k` D#j b Kiv ntq#Q Ggb fvebv t_#K;

6 | tKvb Dw#C tKvb b#Mw#i w#KU mgw#RK ev A_#ZKfvte metP#q , iazcY@-rbxq
cwi tek i jyq ev wek#l AvKl@q -yfc aviY Kti, Z#B Zvi c#Mfxi Av`i I fuj evmv Rb#q
Gifc ntj ; A_#P, Dw#C#U c#eugly e`enw#K I cwi tek AvKl@p#i#tq#Q Gifc fvebv t_#K;
thgb- *Prosopis spicigera* Dw#C#U fvi#Zi iR#t#b giæ cwi tek Rb#q; tmLvt#b giæ
AAtj i GB Dw#C c#R#Z t_#K c#i Lv` I evm`b wbg@Yi Rb` Z#t` i w#KU cRbxq Dw#C; Ges

7 | tKvb Dw#C i tivM-tkvK w#vgqKvix hv` kix , Y itq#Q ev A#Zc#Z. w#KQzNUtZ cv#i
Gifc fvebv t_#K |

Dw#Z cOg 5#U weq ag@ek#mi m#h m#uK@p Avi tkI 2#U weq ag@inf#p cRbxq ev
cne#t Dw#C i , iaz#t cne#t Dw#C i tek w#KQzAvaw#ZK, mgw#RK I A_#ZK , iaz#i#tq#Q |

thgb t

1 | cne#t Dw#C Act`eZv ev y#ZKi tKvb kqZvtbi `#po t_#K Z#t` i#tK i jy Kite;
t` eft` ex#i Z#Kite, hvi c#Z`#t gvb#MK c#ns#NUte, -#t` i ev tivM-tkvK t_#K g#p cne#t
Ges metk#t gvb#MK -#t` i D#b#Z NUte| gvb#y c#Z#bqZB weifc cwi tek t_#K ev#vi c#D#v
Ki#Z _#t#K| gvb#MK -#t` e#p#_Ktj Zvi Rxeb I Ktg@i#vZ N#U| dtj gvb#y gvb#MK
-#t` i D#b#ZKtj c#Z#bqZ c#Z#i Dci, atg@Dci w#f#p#Kti | G#y#t#t Dw#C metP#q m#h
ntm#te t` Lv nq|

2 | we#fbao#tq c#Z#K e#v#t#K g#Z#Z we#tq B#Z`#w` c#OMZ i#Z#b#Z cv#b K#t#Z nq| Z#Lb
w#qg#v#b#y#q#x w#KQzDw#C i ev Dw#C#t#ki c#p#Rb nq| GB e`#tj v Z#Lb m#W#Kfvte k#b#v#3 Kiv,
n#t#Zi K#t#Q cv#l qv I m#W#K mg#tq m#W#Kfvte e`en#t#i i#Z#b#Z cv#b Kivi c#p#Rb nq|

3 | AtbK Dw#C i wek#l w#KQzti#M Av#i#M#Kvix ev #Zsg#s#k#v#3 i#tq#Q, hv gvb#MK I
Avaw#ZK Ges kvix#i K D#b#Z mnvqZv Kti | G#y#t#t m#W#K Dw#C tKv#vq cv#l qv hvte Zvi
Ae`#t#b R#b#t#Z ev Zvi cwi#p#Zi c#p#Rb nq| Z#Lb B#t#v Dw#C#eAvb mnvqZv K#t#Z cv#i |

4 | ag@ ag@ms`#Zi m#h R#o#Z c#M#Z ,#t#j vi c#Z k#Q I fuj evmv K#t#Y tm m#Kj
Dw#C tivcb I ms#i jyY nq; dtj Rx#e#p#t#t w#t#K _#Kvi I Zvi c#y#t#e#en#t#i i m#h#M mpo nq|

Fw-gy, ISv Ges Dw#C c#e#x#i c#Z m#Kj R#t#Mw#Z Ggb w#KQze#v#3 i#tq#Qb hviv gb#K
Avaw#ZK (Metaphysical) R#m#Zi `#k#p I K#b#v#i w#p#s#lq w#t#q hvq| gvb#y Z#Lb Z#t` i

॥bKU AvZV̄i cÖñšj v̄fi Avkvq OñU hvq| Gtÿt̄ Aw` tZ Fw -gvY I ISv̄t̄ i Awef@ NñU|
 Zuñ ZLb mgvRe"vq weñkl fñgkv ivLñZ _v̄K| Fw t̄ i gta" eþFw (Brahmarishi)
 Ges t̄ eFw (Devarishi) MYB gj- agcK@ w tqtQb| Zv̄t̄ i nvZ atiB weñfbdë tk weñfbœ
 agñS@iPZ ntqtQ|

fvi Zeṭṭī Ḷāṇḍī -gīy | Ṡiṣṭī Aññeṭṭī tek Awāg | Abūbū t̄kī Aññā _Vāṭṭī | fvi Zeṭṭī Ḷāṇḍī -t̄yāṭṭī tek Ḷāṇḍī Māṭṭī i ṭqṭQ th̄tj v cō 4,000-4,500 ermi c̄yāṭṭī, h̄vāṭṭī K ēññā K māqā (Vedic age) ej v nq | Ḷāṇḍī (Rigveda) Ges A-ēṭṭī (Atharvadveda) Dīmāṭṭī māṭṭī Kāṭṭī Ḷāṇḍī Āññā K Z̄ D̄tj b̄ i ṭqṭQ | h̄vā ḡtā Dīmāṭṭī i ṭkāññā | t̄kāññā debūm, I JI ax Dīmāṭṭī i , Yv, Y w̄ice x n̄qṭQ | G mKj Māṭṭī 'Soma' b̄vāK GKāJU Dīmāṭṭī i D̄tj b̄ i ṭqṭQ h̄vāṭṭī 'Tree of life' ej v nq | GB Dīmāṭṭī JU t̄Māṭṭī Ḷāṇḍī māṭṭī Kiv nq | GB Dīmāṭṭī JU Rxebxkw̄³ `vZv, Agi Zj `vZv | t̄cāṭṭī māṭṭī Kivx | ZvB Ḷāṇḍī Dīmāṭṭī n̄t̄Q mKj Dīmāṭṭī i cō t̄t̄ D̄w̄ j̄b̄ Z tmvgv Dīmāṭṭī K Glb̄l kbv̄³ Kiv h̄vāqib | At̄b̄t̄Ki ḡt̄Z, Dīmāṭṭī JU nej β n̄qṭQ h̄vā Kej BññāK _v (Myth) Ges tj Šāṇḍī DcL̄v̄b (Legends) n̄q AññāQ | Aññāvi At̄b̄t̄K Dīmāṭṭī & Aññāq̄e © ṣeṭṭī Kā Á et̄j t̄Qb, Gññā Somalata h̄vā Ephedra gerardina (Gnetaceae), Sarcostemma acidum (Asclepiadaceae), Bacopa monnieri (Scrophulariaceae) ev Ruta vulgaris (Rutaceae) n̄Z c̄v̄i | GB Dīmāṭṭī , t̄j v eu, Y māṭṭīboe Jax Dīmāṭṭī | Aññāvi t̄Kv̄b t̄Kv̄b t̄j L̄t̄Ki ḡt̄Z, Gññā Tinospora cordifolia | GB Dīmāṭṭī c̄w̄b̄t̄Z b̄v̄oPv̄oV K̄t̄i w̄b̄t̄Z v̄ aḡt̄ Ab̄t̄v̄b̄ er̄t̄ȳv̄i c̄v̄b̄ K̄t̄i _v̄Kb̄ | Avi Thomas (1972) Gi ḡt̄Z w̄i Māṭṭī t̄t̄ th̄ tmvgvī K̄v̄ ej v n̄qṭQ Zv̄ n̄t̄j v̄ Asclepias acidus Roxb. | Ab̄v̄b̄ At̄b̄t̄K at̄ḡe BññāK _v̄q Ges `k̄t̄ c̄ÖMz̄f̄t̄e Tree of life-t̄K GKāJU tḡññā K Aw̄ Agi eññāj̄c w̄iññāt̄e PññāZ K̄t̄i | ZvB Gññā GKāJU c̄w̄t̄ Dīmāṭṭī w̄iññāt̄e PññāZ nq | Bññā v̄ḡ at̄ḡe Sidratul Muntaha (ṣeṭṭī K̄eB̄ MññāQ, h̄vā c̄w̄t̄e) t̄Māṭṭī māṭṭī v̄b̄v̄b̄ AññāZ̄ b̄v̄K GKāJU et̄j̄i K̄v̄ ej v n̄qṭQ (mññā 53:14-16; 34:16; 56:28) | c̄ieZx̄t̄j̄i PññāZ w̄iññāt̄e Dīmāṭṭī i b̄v̄ D̄tj̄ b̄ n̄qṭQ h̄vā μ̄t̄ḡ c̄w̄t̄ Dīmāṭṭī i Zññā Kññā _v̄b̄ t̄c̄t̄Z _v̄K̄

I S^mMY mgv^tRi GK wetkl c^Qe^tY^C(Caste) ev tk^tDi e^w³ hviv wetkl Avaz^wZ^K, i^aev
w^ky^K Kl^bl KL^bl G^t i Ae^ttb ivRvt^t i Dct^tl ~tb t^t qv n^tZv| A^MZfv^te^t Ol Sv^tK ej v
nq "He who controls the spirits of earth" | Giv Act^t eZv ev A^tfZt^tK ` h^tKti
m^fZv Avbqb Ki^tZ cv^ti Ges f^mMYbv^t Ki^tZ cv^tib| ZvB mgv^tR I Svt^t i , i^aZ^t GK mgq
tek c^Q w^tq| Zte Avtgwi Kvq I S^mY GL^bl wetkl m^snbZ e^w³| I S^mYI Zvt^t i agx^t
i x^mZbx^tZ^tZ wetkl wetkl D^mt^tK e^tenvi Kti| Zvt^t i wbKUI AtbK D^mt^ti Bz^wZ_y I
tj^tSK DcL^tvb i t^tq^tQ, hvi w^kOzv^tj L^t ~w^tj I cvl qv hvq| ISviv wetfboat^tbi agx^t ev
Acw^t@Abk^taj^tbi gva^tg Ggb GK Avb AR^tKti b hv ZLb Zvt^t i^tK DPzgh^tvq wb^tq hvq|
Gi gva^tg Zuiv Ggb GK AvZ^wK RM^tZ wb^tq hvq ev e^w³t^tK thMv^tthM Kv^tq t^tq, hv ZLb
AvZ^wK kw³ ~w^tK RMrt^tK cvl Pv^tj Z Kti| Avtgwi Kvq G^t i^tK Shaman etj| G ai^tbi
e^w³ Øviv cvl Pv^tj bvi NUb Kt^tqK nvRvi erm^tii c^tyt^tbv|

1| cÂfj ø (Pancha Ballap) n‡"Q cDñU eÿ DñM‡ i cvZv: *Ficus religiosa*, *F. bengalensis*, *F. glomerata*, *F. glaberrima* | *Mangifera indica*, h̄ th‡Kb agx‡ Drm‡ei ii‡Z Aek‡B _vK‡Z n‡e|

2| *Eulaliopsis binnata*-i Qvj tʃK ɿZv mɿv 0viv dɿ Ges cvZvi gvj v tMɿ_ mKj
cBv qÜtc Szv‡Z nq|

3| *Prunus cerasoides* Ges Butea monsperma-Gi Wj eZerÜv
(Bratabandha), ePötYi ^cZv etav, Aböv eenvi nq|

4| agx@ mKj Abŷt b Lv`" cwi tek b Ki‡Z kij cvZv ev Zv `‡q ^Zwi tcb Aek'B
_vK‡e|

5| *Elaeocarpus sphairicus* Gi extRi ^Zwi gjj v Ges *Ocimum* spp. Gi Kiv Øiv ^Zwi gjj v Rcgjj v mntmte eenvi Kiv nq|

6| thKvb agx@Abg@b mgwi i (*Area catechu*) dj AekB _vKtZ nte|

7| gÜtc i tK`@tj Av,b Rj@Z *Ficus benjamina* Dw@C i KW AekB c@Rb; Ges

8| gZ e@W3 i mrKvi Ki@Z wb@q hwei mgq AekB mtZR meR e@ki g@A wb@q th@Z nte|

fvi@Zi D@i-c@Dg A@tj i Kwk@i Ayub et al. (2013) GKU MteIYi Ktib| Zu@v tmLvtb 16@U c@WZ kvt@3 Ktib hv w@fb@ej @MY eenvi Ktib| tKvb Abg@bi ci@tek cne@i ivL@Z th agab@ eenvi Kiv nq Zvi mt@% *Adiantum capillus-veneris* bvgK GK ai@bi d@Y@W@C i cvZv i@Ktq ,ov Kti atci mvt_ t`qv nq| *Barbaris lyceum* bvgK GKU Dw@C i cvZv mtgZ Wjy cyj v N@i i m@S@ `i Rvq S@i tq iv@L ev N@i i m@S@ j @M@b@v nq thb Act`eZv ev f@t@c@O N@i c@ok Ki@Z bv cv@i | Kwk@i *Betula utilis* bvgK GKU Dw@C tek Rb@q| tmLvtb GB Dw@C@Ui Kv@Ui evKj Kv@Ri gtZv -fi -fi L@j Zv i@Ktq wb@q tj Lvi DcthwMx KvMR ^Zwi Kti, hv tfvRc@ bvg mgw@PZ| Zvi Dci c@WZK Kvij w@tq AšZ `@n@Rvi ermi ati w@fb@ej@cy@Y, Kwnbx, Zsg@j@iL ivLv n@Zv, hv GLbI Pj gvb i@q@Q| ZvB Atb@K G mKj tfvRc@ Zsg@j@iL g@j, ZweR ewb@q Mj vq S@i tq iv@L| tmLvtb Ab@b KtqKU cne@i Dw@C nt@Q *Amaranthus caudatus*, *Coriandrum sativum*, *Foeniculum vulgaris*, *Brassica campestris*, *Pisum sativum*, *Iris kashmiriana*, *Juglance regia*, *Ajuga bracteosa*, *Lawsonia inermis*, *Ficus palmata*, *Musa paradisiaca*, *Platum orientalis* | *Punica granatum*|

BD@i@C w@P@i@r Dw@C@K ciKv@j i c@OK g@b Kt@i| G Kvi@Y Ke@i GKU Pviv Dw@C@i@C@bi c@Q Av@Q| mgw@t@y@i ev Ke@i i c@k Cypress (*Cupressus semipervirens*) met@pq te@k t`Lv hvq| Dw@C@i cvZv y@z@y@Z@e w@P@meR kvL@-c@L@h@| GB Dw@C@Ui agx@mr , Yvej xi c@OK fver nq| Dw@C@Ui -@c@ A@bKUv gvb@i Ae@tei gtZv| Jenner (1910) Gi gtZ- "it has been used as a symbol of mourning and death, and it is almost universally used as cemeteries" | t@v@b I M@t@ i @bKU Cypress 'The Mourful Tree' bvg mgw@PZ| ga@C@P g@w@j g@`i gta@i @K0ze@j @et@l f@t@e cne@i nt@q@Q| *Zizyphus spina-christi* (L.) Desf. (*Z. mauritiana* Lam.) Dw@C@Ui tKvi Av@b 'Sidar' bvg (53 : 12-18; 56 : 28-32) Dt@j b Kiv nt@q@Q, hv Bst@wR@Z 'Lote tree' bvg ci@P@Z (evsj v@t@k eoB)| g@w@j g@`i t@y@i gZ e@W3 mrKv@i mgq hLb tM@mj Kiv@b@v nq ZLb tmLvtb Mig ci@t@ GB Dw@C@Ui KtqKU cvZv Øiv c@b@K we@i x Kiv nq| ZvB G@U A@bK mgq Ket@l t@v@b Kiv nq| GKBfv@e Rj cvB Dw@C@I (*Olea europaea* L.) cne@i tKvi @Av@b A@bK@tj v mi@Z Dt@j b i@q@Q| G@K 'blessed tree' (al-shajarat al mubarka) ej v nq| D@i AwdKvi tj@Kiv G@K 'looks towards heaven to

prase god' bvtg wPwýZ Kti | ZvB Gi tKvb GKwU Wj cvj v KvUjtj Zuiv LwB `tLZ nq| GKBfvte tLRy (*Phoenix dactylifera* L.) Bmj vg RMtZ AwZ mwaviY DwMC wKs'Gi gj- evcK| ga;cP tKvb eW3 hLb nRj mubkti ewatZ wdti Avtmb ZLb tLRy i KtqKwU cvZv w tq Zvi ctok ct_ GKwU tMU Zwi Ktib| hLb tKn tm Nti ctok Kite mKtj B GB tmUi wfZi w tq ctok Kite| wdij wfb gZ eW3 Keji PviU tLRy cvZv Keji i Dci tXtK ivL| GB DwMCU ga;cP GtZv cOe tdtj tQ th Bmj vg ceongtqI AtbK gw`ti i Mwtq tLwB Kti ev wPtvb Kti wPwZ nq| ZvQov ighwtbi mgq tivRv fv0tZ mKj t`tk tivRv i MY tLRy tLq tivRvi mgwB NUvb| KviY bex nhiz gywS (m.) tLRy tLq tivRv fv0tZb|

GLvbt j yYq th, cnei DwMC, t j v -vbxq ev tfsMwj Kfvte GtÜngK nI qvq Zv -vbxqfvte bvbv cOq wfboefbcte cnei ntqfQ| thgb- ga;cP Wgy, tLRy, Rj cvB, muj wfqv; BDtvtc wj, tivRtgix; Atgwi Kvq *Brugmansia suaveolens*, aYzv (*Datura stramonium* – Jimson weed), tKtKv (Coca – *Erythroxylum coca*), ZvgwK (Epuna – *Virola theiodora*), Kwbkjv (Canelo, *Drymis winterii*) I uqyKgv (Huachuma, *Trichocereus pachanoi*); fvi tZ Zjw, cvKz, eU, MuRv, Awdg| Gfvte Aw`Kv t_k cnei DwMC i cRz BiZK_v, kQ| I cÖnsfBZw` mautKAtbK wPsh| weIq itqfQ| Gfvte hN hN ati wekI wekI fvebvq gvbwmK I Ava wZK RMtZ wbq thtZ DwMC gwbe gtb wekI cOe tdtj tQ, hv GLbI mgfvte we`gvb|

D³ aviYv t_k ga;cP i t_k KvZtii t_vnq Qatar Foundation for Education, Science and Community Development-Gi GKwU ctP+i Avl Zvq, 2008 mwj , The Qur'anic Botanic Garden bvtg GKwU D`vb cOv Kti | G D`vb fmLvtbi -vbxq DwMC i cvkvck cnei tKviAvb Ges nw`tm i tqfQ Gifc DwMC cRwZ kbu³ Kti Zv wekI ghiq tivcb Kiv ntqfQ Ges mwavtYi AwZt_Cvi cOvRbxq Z_mn`k@_xP i Rb` cOvKiv n^Q| D`vbU cwi tek, wkyv, weAvb, webri`tbi cvkvck tjvK-mws_wZK I Bmj wqK mws_wZK fvgKvi weIqK wekI , iazj t_qv nq| cnei tKviAvb DwMC, t j vi Dtj tli , iazj Zj aiw ntqfQ Ges 50wU nw`m t_k kbu³ DwMC i mgvni ntqfQ| 2006 mwj UNESCO G aitbi D`vb Zwi i Dt`wMtk Abtgv`b w tqfQ| GLvbt Djt b th, tKviAvb I nw`tm Djw wZ DwMC, t j vi cOwZfvte Ges HwZnMZfvte wefbaewZi mtw Aw`Kv t_k tek cvwZ| tKviAvb Dtj tli KvitY Zv bDwMCieAvtbi AšfS ntqfQ|

GKB Dfik wbtq mshy Avie AwgiZi mwirvnZ Abiyf Avi GKwU Qur'anic Botanic Garden (Islamic Botanical Garden) 2014 mwj cOvZ ntqfQ| G aviYv t_k Bw_I wcvqi ivRavbx Awim Aveveiq Abrahamic Botanic Garden cOvI Rb` cOvq i tqfQ| bex nhiz Being (Av.) Gi esk t_k Bw, Lqib I Bmj vg atgPcEZ NtU| Bw_I wcvqi GB wZbwU atgPj vKRb mgghiq wR`agxP i wZbwZ cvj b Kti | ZvB GB

BtKwmt÷g ti÷vlikb KitZ mWk -t'b t` kx Mq j wM#q fvel'Z eska it` i e#P#q ivLby

%q` jy Avj g

MteI Yv mnKvi x tMÖ 1, nvi tevi qvg tmKkb, eb Difm ØreAvb nefM,
evsj vt` k eb MteI Yv Bbw÷ MUDU, PÆMÖ |

Email: alam_fri@yahoo.com

Okýnq eb cÖtek, Avak K evsj vt` kñ kxl Q t` MbbtK mvgtb ti÷L MZ 20 Rb 2019
XvKvi tktei evsj v bMi e%eÜzAvšRZK m%sj b tKt` ^gibbxq cÖbgşç tKL nwmbr RvZxq
eytivcY Awfhb I eytqj v - 2019 DfMab KtQb| cÖtek I cÖtek msi ýtY eytivcY
mæútK@YmPZbZv I ` wqZkj Zv mqi j tÿ cÖ eQi evsj vt` tk Zurich@Vte RvZxq
eytivcY Awfhb Drhvb nq| t` tk cÖ eQi Rb- Amó chsWZb gvm miv t` tk eytivcY
Avt` vj b AbjZ nq| tmB mgq t` tk me trj v, DctRj v, tcSmfv, wky cÖövb mn t` bxq
chö eytqj v AbjZ nq| GB me eytqj vi gva tg t` bxq Rbmtyi gvtS Mq j Mvi (Tree
plantation) cÖ Awepj AmMÖ I RbmPZbZv (Awareness) mpo Kiv nq| cÖ
w evtj vtKi gZ mZ th, eZ@t b t` tk guby eytivctYi cÖ ht_ô AmMÖ Ges cÖ eQi j y
j y wewfbœRZi MqQi Pviv Gt` tk i gWUZ t` ivcY Kiv nq| dtj w b w b t` tk i ebR mæú
I Difm C e#P#t i (Plant diversity) cwi gY e#P#tQ| GiB avivemKZvq eytivcY Abb
Ae` vtbi Rb 2014 mjtj BDtb t` gibbxq cÖbgşç tKL nwmbrtK OkwséyØ mæbbv Ztj
w tqtb|

evsj vt` k cwi exi AbZg NbemZCY@` k| cwi exi eZ@b cwi wZtZ Rj evqycwi eZ@
(Climate change) Gi Aibeh@tctU cÖZK mæú Avni Yi Dci evowZ Pic I
Acwi Kvi Z bMvqY I t` kRjø Acwi Kvi Z AeKvWtgv Dbqø Ges AmPZb wki vqtb i dtj
t` tk cÖbqZ cÖtek I cÖtek wecbøes eb-R½j Ktø htQ| Avak Kve@wtmi YRwbZ
Kvi tY Rj evqycwi eZ@i Køtj metPq tekx f3tfvMx evsj vt` k| bvRk tfSMij K Ae` b I
wbaej nI qtZ mgýØp ùwZi dtj evsj vt` tk i wYvAj Pig SiKi gta i tqtQ| j eYv³Zv
Qmøtq coZ cwi t` tk i ga ffM chsZi Zvi I ci So-SAv, mBtKtø, Rj v'Qm, b` x fv½b
I Lv ebvi cÖv tZv itqtb| GK Rixtc t` Lv hvq, 1991 t` k 2000 mjtj i gta
evsj vt` tk i 93M eo aitbi cÖZi wech@nq| GtZ metgyU ýwZi cwi gY ` wvq cÖ 590
tKwU BDGm Wj vi | Oq FZz t` k wntme cwi PZ G t` kwi FZP@tK GLb tPbuUq ` yxi |
Gt` tk cÖZK wech@i t` qZkj I iayZv ej i tqtQ| G Ae` Pj tZ _vKtj 2050 mjtj
bvMv` 15 kZvsk tj vK ývri Kivj Mæm wby&ntr| wki t` i Acwi cwi gY evote 21 fM|

wēki K̄ti P̄EMQ̄gi w̄b̄n̄Āj W̄ze h̄l̄q̄i Av̄ksKv īt̄q̄t̄Q | Rj ev̄qyc̄i eZ̄P̄i K̄ti Y th 10W̄
 t̄ k L̄v̄ `` -̄Z̄vi ûḡiKi ḡz̄L Av̄t̄Q ev̄sj v̄t̄ k Z̄v̄t̄ ī ḡtā Ab̄Zg | mḡt̄ ī D''PZv gv̄i 1 w̄Uv̄i
 ev̄ot̄j Ḡt̄ t̄ki tḡU Av̄qZ̄t̄bi kZKv̄ 18 f̄M ȳn̄ZMÖnt̄e | ḠQov̄ mḡt̄ ī D''PZv ev̄oq mḡȳ
 Z̄xi eZ̄C28 t̄Rj vi c̄w̄b̄t̄Z j̄eYr̄3 Z̄v̄ t̄eto t̄M̄t̄Q | m̄w̄ūn̄ZK mḡt̄ ev̄sj v̄t̄ t̄ki ev̄qȳD̄t̄j ī
 Z̄vcgv̄i MZ 42 e0t̄i ī t̄i KW̄F̄% K̄ti t̄Q | Avevi e1̄C̄t̄ḡS̄t̄jg Ab̄v̄ē A_̄ev Āw̄Z̄ēp̄i K̄ti Y
 gw̄b̄t̄ ī Rx̄eb̄ ` ȳn̄ n̄t̄q cōt̄Q | dt̄j Avḡt̄ ī f̄w̄l̄Z c̄R̄b̄t̄ ī ēw̄P̄t̄q iv̄Lv̄ Āt̄b̄K K̄Ki
 n̄t̄q cote | GZ S̄t̄Ki ḡtāl̄ GKv̄ f̄v̄j Lei n̄t̄"Q, Rj ev̄qyc̄i eZ̄P̄i t̄būZ̄ev̄PK c̄Ōe tḡKv̄tej v̄q ` p̄
 tbZ̄t̄Z̄j Rb̄ 2015 m̄t̄j R̄w̄Z̄msN KZ̄P̄.gw̄bbx̄q c̄Ōbḡs̄t̄K c̄v̄j m̄ w̄wi k̄c K̄v̄Uv̄Mi x̄Z̄
 R̄w̄Z̄ms̄t̄Ni c̄w̄i t̄ek | Rj ev̄qyc̄i eZ̄P̄i t̄el̄q̄K m̄t̄ēv̄P̄ c̄` K̄ C̄hampions of the Earth̄
 c̄` t̄K f̄w̄l̄Z Kiv̄ n̄t̄q t̄Q | gj̄-Z Rx̄ebhv̄i gw̄b̄ w̄b̄qS̄Y K̄ti c̄R̄z̄i m̄t̄_ ēÜZ̄f̄Y@Av̄i t̄YB c̄v̄t̄i
 GKv̄ mȳ ī c̄w̄ex c̄Ōt̄v̄ Mōt̄Z | Zv̄B Avḡt̄ ī f̄w̄l̄Z c̄R̄b̄t̄ ī ēw̄P̄t̄q iv̄Lv̄ Rb̄ Avḡt̄ ī
 Ecosystem restoration c̄ȳi x̄vi Kīt̄Z t̄ k̄x M̄Q j̄w̄t̄b̄v̄i t̄Kv̄ w̄K̄i tbB | t̄ k̄x M̄t̄Q
 (Indigenous Species) tēk̄ j̄w̄f̄ ḠU ēt̄K av̄i Y K̄ti mēv̄B̄t̄K t̄ k̄x c̄R̄n̄Z̄i M̄Q j̄w̄t̄Z |
 m̄si ȳY Kīt̄Z c̄v̄t̄j B̄ Ecosystem restoration m̄d̄j n̄t̄e |

Z̄te GLv̄t̄b GKv̄ w̄l̄q̄ j̄ȳYv̄ th, me t̄ k̄x c̄R̄n̄Z̄i M̄Q me R̄v̄qM̄v̄ Rb̄v̄q bv̄ | A_̄P̄
 c̄v̄n̄t̄oi M̄Q w̄ej -̄St̄j Av̄i c̄w̄bi M̄Q mḡZ̄t̄j j̄w̄t̄b̄v̄i Av̄k̄v̄b̄j̄c dj c̄v̄l̄q̄ hv̄q bv̄ | Z̄Qov̄
 t̄ t̄ki me gw̄Ut̄Z me ait̄Yi ej̄ w̄W̄Kf̄t̄e n̄q bv̄ | w̄W̄K R̄v̄qM̄v̄ w̄W̄K t̄ k̄x c̄R̄n̄Z̄i Pv̄v̄
 t̄iv̄cY eb̄v̄q̄t̄bi Ab̄Zg c̄ēZ̄P̄ Avev̄m̄-j̄ w̄ecb̄z̄e | w̄W̄K R̄v̄qM̄v̄ w̄W̄K t̄ k̄x M̄Q t̄iv̄cY bv̄
 K̄vi dt̄j Avḡt̄ ī t̄ t̄ki w̄bm̄M̄Ges Abb̄ mḡx R̄xē%P̄t̄ Z̄_v̄ t̄ k̄xq c̄R̄n̄Z̄i
 (Indigenous species) M̄Qc̄v̄j v̄ Av̄R ûḡiKi m̄s̄t̄b̄ | A_̄P̄ -̄t̄b Dc̄t̄h̄w̄M̄Z̄vi w̄f̄Ēt̄Z M̄Q
 j̄w̄t̄Z n̄t̄e | Zv̄B ev̄sj v̄t̄ k̄ eb M̄t̄ēl̄Yv̄ Bb̄w̄-̄UDU (w̄GdAv̄i Av̄B), P̄EMQ̄ -̄t̄b | M̄t̄Q̄i
 `ēuk̄ō` w̄P̄t̄i ev̄sj v̄t̄ t̄ki w̄w̄fb̄ōt̄b t̄iv̄cY Dc̄t̄h̄w̄M̄x t̄ k̄x M̄t̄Q̄i GKv̄ j̄w̄M̄b c̄ȫp̄
 (Technology) D̄m̄eb K̄ti t̄Q | Z̄v̄Z ej̄ v̄ n̄t̄q t̄Q, tēk̄ c̄w̄b̄ mn̄ K̄ti Z̄ ev̄t̄i bv̄ Ggb c̄R̄n̄Z̄
 c̄w̄bi av̄i j̄w̄t̄b̄v̄ hv̄t̄e bv̄ c̄k̄z̄ ev̄ `x̄Nxi c̄v̄t̄o c̄v̄Z̄v̄S̄v̄ ej̄ bv̄ j̄w̄t̄b̄v̄B f̄v̄j | B̄t̄j K̄w̄Uk̄
 Z̄v̄t̄i ī w̄b̄t̄P ev̄ K̄t̄Q tēk̄ j̄w̄t̄n̄q | W̄j̄-c̄v̄j v̄ Qov̄ Ggb M̄Q j̄w̄t̄b̄v̄ hv̄t̄e bv̄ | eo Gj̄v̄Kv̄R̄j̄ō
 GK c̄R̄n̄Z̄i ev̄M̄b bv̄ K̄ti ēu c̄R̄n̄Z̄i w̄ḡk̄t̄b̄ ev̄M̄b K̄ti Z̄ n̄t̄e | Z̄Qov̄ c̄Q̄ 1-2 ēQ̄i ebR̄
 M̄t̄Q̄i m̄t̄_ m̄w̄_ dm̄t̄j ī Pv̄l K̄ti Aw̄_R̄f̄t̄e j̄v̄f̄ev̄b n̄l̄q̄ hv̄q | K̄ei ev̄Yx Ø̄v̄l̄ w̄d̄w̄i t̄q̄ tm̄
 AiY j̄l̄ G bM̄i Ø̄ ev̄-̄ev̄b K̄ti Z̄ m̄W̄K -̄t̄b t̄ k̄x M̄Q t̄iv̄cYi t̄Kv̄ w̄K̄i tbB | c̄w̄i t̄k̄t̄l̄
 w̄b̄t̄q̄i m̄t̄_ Av̄i R̄, GB aw̄i T̄x ī ȳvi w̄b̄ḡĒ, c̄w̄ex t̄K Av̄M̄ḡx eska t̄i Rb̄ ev̄m̄t̄h̄w̄M̄ K̄iv̄ Ges
 Rj ev̄qyc̄i eZ̄P̄i w̄ēfc c̄Ōe tḡKv̄tej v̄q w̄W̄K R̄v̄qM̄v̄ w̄W̄K t̄ k̄x c̄R̄n̄Z̄i Pv̄v̄ t̄iv̄cY Gi
 Av̄k̄v̄ē` ē"3 K̄iQ̄ | -̄t̄b | t̄ k̄x M̄t̄Q̄i `ēuk̄ō` w̄P̄t̄i ev̄sj v̄t̄ t̄ki w̄w̄fb̄ōt̄b t̄iv̄cY Dc̄t̄h̄w̄M̄x
 ebR̄, dj̄` | ፳፻፲፭ M̄t̄Q̄i bv̄ w̄b̄t̄d̄e | q̄ n̄t̄j v̄:-|

cnwmo eb fŋjtZ tivcY-DctħMx MmQ

cnutoi Dcui fWlt MRQ, Mgvi, j bv Avnvi, Pqúv, PKiWk, mwfU, tZj my, DnoAvg, Avgj Wk, cvBbWtMvj v/ j Kj Wk, KbK, avgviv, Wkj fw, U, Wq, SvD BZ'w` |

gaXvj t_k cv` t_k chs MRQ, Mgvi, Kvj vKoB, Pvcmj k, tgnMib, Wkj KoB, tZj my, Pqúv, mwfU, Wkjy, QwZqj, Rvij, tZj, XwKRvg, WcZivR, KvBÄj fw, Zb, eU, eKj, tZZqjKoB, tj vnvKw, PKiWk, eBj vg, ev` i tnvj v, tZRenj, evRbv, U, Wq, D`vj, Pvj gMiv, Kbvx, c` Kj, P`j, bwi tKj x, Kvgt`e, tg`v, i³b, ebvK, avgviv, eb KvD, nvi tMvRv, gR, ivZv, DnoAvg, KvWj, tj eytej, tcqviv, eE© KvD, Mve, Kvj Rvg, nvi ZwK, Avgj Wk, etniv, eb tmvbj y, Ij UKqj, ARQ, euk, teZ BZ'w` |

cnwmo Gjvki wPzfig (thLutb eQtii tKvb bv tKvb mgq cwib _Wk) t Rvij, K`g, cWZRvg, tWcvgr, Kvj Rvg, WcUvj x, Wkjy, Wkjy, PvKvKoB, Kvj vKoB, ev` i tnvj v, gq`vi, WnRj, eU, Ak, WRMv, KvAb, euk, teZ BZ'w` |

iv-f I moKtKi avti tivcY-DctħMx MmQ

moK I gnmoKt ivRKoB, Wkj KoB, Kvj vKoB, ARQ, tg`v, PKiWk, tZj my, eKj, cj Wk, KòPov, tmvbj y Wbg, eb tmvbj y nvi ZwK BZ'w` |

wdWvi tivWt Wbg, Pqúv, Zb, Rvg, Rvqj, evej v, Lqj, eKdž, Wm`jk, Aoni, emWgWjv, Zvj, tLRj, KvBbRj fv`x BZ'w` |

WmU AvBj Wt Kvqwb, Wgb Rvij, bvtMkj, KòPov, cj Wk, tg`v, tmvbj y Kvj vI Rv, i³ P`b, WRDj fv`x BZ'w` |

WmU AvBj Wt Kvqwb, Wgb Rvij, bvtMkj, Wm`jk, Rev, MÜivR, evMvb wej Wm, tgvtmUv, AtkvK, ivavPov, eLvBb BZ'w` |

ti j Wbt Zvj, tLRj, evej v, Lqj, eKdž, Wm`jk, tej v, ivavPov, ivRKoB, tg`v, KvBbWtWv, eb tmvbj y eb Pv MvQ BZ'w` | cwib RtG Gifc RvqMq Rvij, WnRj, K`g, cvBbWt Rvg, gq`vi, BZ'w` |

etai avit Zvj, tLRj, U, W, avgviv, evej v, Lqj evej v, cWqj, bwi tKj, euk, Rvij, gq`vi, Rvg, K`g BZ'w` |

wej GjvKq (thLutb eQtii 2-3 gwm cwib RtG _Wk) tivcY DctħMx MmQ WnRj, KiP, WcUvj x, Rvij, gq`vi, eiab, cj Wk, K`g, Pvj Zv, Rxeb, cWZRvg, tWcvRvg, WcZivR, ARQ, Avg BZ'w` |

emZerxi Avk cuk tivcY-DctħMx MmQ Wbg, Avg, Rvg, KvWj, tcqviv, tej, Avgov, bwi tKj, Zvj, tLRj, j UKb, KvD, WmRbv, eKdž, mgwi, Wj Pz Rvqj, Rj cvB, tej aq`y

Kvgi v̄zv, W̄w̄j g, K̄j, tj ey t̄Z Rci Zv, `vi aPib, t̄ kx I wej w̄Z Mve, m̄d̄ v, Kj v, t̄tc, Zb,
w̄k j KoB, M̄gwi, K̄g, Aoni, evmK, cv_i K̄P, euk BZ̄w̄ | ei w̄cwb R̄g _v̄K Ggb
RvqM̄q K̄g, Rvi aj, w̄cUv̄j x, ei ab, cvBb̄v Rvg, w̄nRj BZ̄w̄ |

**ik̄v̄ c̄ōōb, Andm, n̄mcvZyj, aḡc̄ōōb c̄ōōb t̄ivcY-Dct̄hMx M̄Qt bwi t̄Kj ,
Zyj, KvVer`vg, Avg, Rvg, KvVj, tcqiv, Rvqj, t̄ kx Mve, v̄j Pz KvD, P̄uv, n̄wi Zn̄K,
ēniv, eb tm̄vbj y ḡym̄v, īb, t̄Zj my, Rvi aj, tm̄vbj y cj v̄k, K̄P̄v̄, Kvqib, eK̄j,
ĀtkvK, bv̄tMk̄j, eb Avg, P̄jy, t̄Kp̄v̄, tḡ`v BZ̄w̄ |**

**c̄k̄z c̄to t̄ivcY-Dct̄hMx M̄Qt bwi t̄Kj , Zyj , mḡwi , t̄LRy, tcqiv, cvBb̄v̄tM̄j v,
Rvqj, tj ey erk, tḡ`v BZ̄w̄ |**

**w̄k̄ ĀAt̄j t̄ivcY-Dct̄hMx M̄Qt ibg, t̄Nvowbg, bwi t̄Kj , Zyj , eK̄j, bv̄tMk̄j, t̄ kx Mve,
eb tm̄vbj y KvbiBw̄v, īvRKoB, cj v̄k, K̄P̄v̄, Rxe, eb Pv M̄Q BZ̄w̄ |**

**n̄U evRv̄ti t̄ivcY-Dct̄hMx M̄Qt eU, Ak̄j, t̄ZZj, KvVer`vg, n̄wi Zn̄K, ēniv, eb Avg,
D̄wi Avg, Avgov, w̄nRj BZ̄w̄ |**

**Keīt̄b I k̄kv̄t̄b t̄ivcY-Dct̄hMx M̄Qt KvVj , Avg, eK̄j, cj v̄k, K̄P̄v̄, bv̄tMk̄j,
w̄gjy, eU, t̄ w̄k Mve, Ak̄j, tej , P̄uv, tm̄vbj y eb tm̄vbj y cvZnevni, īb, Kvqib, mḡwi,
euk BZ̄w̄ |**

**t̄yt̄Zi AvBt̄j t̄ivcY-Dct̄hMx M̄Qt Zyj , t̄LRy, mḡwi , evej v, L̄qi , eKvBb, eKd̄j,
^aAv, ḡv̄`vi , w̄RM̄v, KoB BZ̄w̄ |**

DcKj̄q bZb P̄ti t̄ivcY-Dct̄hMx M̄Qt t̄Kl̄v, evBb, KvKov, M̄vb, t̄M̄j cvZv BZ̄w̄ |

**DcKj̄q Gj̄vKvq t̄R̄M DVv DP̄yj (thL̄t̄b ḡv̄bt̄M̄f R̄t̄b̄v̄b̄)t evej v, mbej B, mv̄`vKoB,
Kj vKoB, Rvi aj, Rxe, w̄nRj , eb Pv M̄Q BZ̄w̄ |**

**b̄x et̄y t̄R̄M DVv bZb P̄ti t̄ivcY-Dct̄hMx M̄Qt Rxe, SvD, tj v̄b̄SvD, w̄cUv̄j x, K̄P,
ei ab, w̄nRj , Kj vDRv BZ̄w̄ |**

evsj vi AvgvRb ågb

%q` jy Avj g

MteI Yv mnKvi x tMØ1, nvi tewi qvg tmKkb, eb Dw™CieÁvb nefvM,
evsj vt` k eb MteI Yv Bbw÷ MJDU, PÆMØ|

Email: alam_fri@yahoo.com

evsj vt` k eb MteI Yv Bbw÷ MJDU (neGdAvi AvB) Gi eb Dw™CieÁvb nefvM KZQ.
mtj U Gj vKvi ivZvi,j Rj veb (Swamp Forest) Gi Dci Dw™C ^ewPfT i Rixc
wb tq GKU MteI Yv ÷ MØY Kiv nq| MteI YvUi wktivbvg “Floristic composition
of fresh water Swamp forest in Sylhet region of Bangladesh” Gi MteI Yv
÷ MØY AvI Zvq epEi mtj U tRj vq 21U Rj veb LjR cvl qv hvq| GKU mtj U tRj vi
ivZvi,j Rj veb Ges AbiU nneMÄ tRj vi j ýxel o Rj veb| Avg GLvfb ivEvi,j
Rj veb Z_v evsj vi AvgvRb bvfg LvZ Gi ågY m¤útK @Avj vKvZ Kivi tPov KiQ|
mtj U tRj v kni t_tK cØ 16 wK. ng. `#i ivZvi,j tmvqpvu dti ÷ Gi Ae~vb| mtj U
tRj vi tmvqBb NvU DctRj vaxb evMewo, ivZvi,j I ceGnkLo tgSRvi tgvU 504.50
GKi ebfg wb tq ivZvi,j tmvqpvu dti ÷ MvZ| G eb gj-Z mygv, wcvBb, tMvqBb
b_x wefaSZ nvo AeevnKvq AewZ| MYcØZSø evsj vt` k miKvi etbi Rxe ^ewPfT
i ývt@MZ 31/05/2015 wL. Zwi tL ivZvi,j tmvqpvu dti ÷ tK @etkI Rxe%ewPfT
msi ýYØ Gj vKv wntmte tNvI Yv KtitoQ| ivZvi,j Rj veb bi cvkZ@QvU MØgi tj vKRb
cØy I ctivýfvt ebi Dci wbfpkj | cni tekMZ, A_@nZK I mgwRK w K t_tK
G ebfg LjB , i@ZfY@Bnvi Rxe%ewPfT AZ“šímgx| Aciac tmš` h@q wekj Rj veb
ivZvi,tj i MvQcij v eQtii mZgvm _vtK cmibi wbP| el @tgSmjg G etbi MvQcij v Mto
10 dñ cwbZ Wz _vtK Ges ewK Ask _vtK cmibi Dcti| Gi cØnZK tmš` h@wi tek
evÜe chØ wkti i Rb mnvqK|

MZ 6 tmfpvØ 19 Zwi tL neGdAvi AvB t_tK Avg i nefvMxq KgØZ@Rbve tgv.
Rvnvxi Avj g, wmbqi wi wP@Awdmv i Rbve Amg Kgv i cvj evsj vi AvgvRb mdti
MtqQj vg| Avgiv MixeDj ø kvn (i:) gvRvi tMBU, PÆMØ t_tK ivZ Gm evmthvM
i lqvbv nB| cØ 10 NvU Rwb@ci mKv 7-00 Uvq mtj U kni tcQ| AvM t_tK
etKs t_qv kvn C`MvI ~ eb nefvMi ti ÷ nvDtm hvB| tmLvb `gy chØ wekØ wbB|
Zvici `gy i Lvevi tkI Kti ivZvi,j Rj veb bi Dti tkei nB|



ivZvi ,j Rj veṭbi Af̄š̄i D̄W̄C̄ bḡwmn M̄teI Kē

evsj v̄t̄ki AvgvRb d̄ti ÷ bv̄g L̄vZ iv̄Evi ,j tm̄qvg d̄ti ÷ G Avg Av̄t̄M hv̄B
bv̄B | ZvB Avgvi t̄K̄Z̄j GKUztekx| m̄t̄j U kni t̄_t̄K N̄UvL̄v̄bK t̄Uw R̄wb̄X̄i ci
veKv̄j 4-00 Uvi mgq evsj vi AvgvRb tc̄Q| tc̄Q c̄Qg iv̄Evi ,j tm̄qvg d̄ti ÷ Gi
veU Aw̄dmvi Rbve c̄C̄P̄`āḡUj Gi m̄t̄_ tm̄Rb̄ mv̄yvr | Kk̄j vēbgq Kv̄i | v̄Z̄b̄
Avgv̄t̄ i Rb̄ GK̄U t̄QU w̄w̄o WK K̄t̄i t̄ b̄ | Dt̄j b̄ iv̄Evi ,j tm̄qvg d̄ti ÷ t̄Kv̄b̄
B̄Āj P̄w̄j Z tevU Pt̄j bv̄ | c̄Q `B̄t̄kv̄i Aw̄K w̄w̄o Av̄t̄Q| Avgiv thB mḡt̄q tc̄Q tm̄B̄
mḡt̄q kZ kZ ch̄OK̄t̄ i Avgv̄t̄M̄bv̄ | cīt̄ek Avgv̄t̄ i Ab̄k̄j w̄Qj | bxj Av̄Kv̄t̄ki v̄b̄P̄
cōš̄nēt̄K̄t̄j i tīS̄`āevsj vi Avgv̄Rb̄t̄K Av̄t̄i v̄tm̄S̄`h̄@w̄o t̄q w̄j | Avgiv Ḡt̄K Ḡt̄K mev̄B̄
ax̄t̄i ax̄t̄i w̄w̄o t̄Z D̄t̄V Av̄mb M̄o Kij vḡ | ḡw̄S̄ `w̄ tēt̄q Av̄t̄-̄Av̄t̄-̄m̄ḡt̄b Ḡ,t̄Z̄
j w̄M̄t̄v̄ | m̄ḡt̄b KZUk̄zhv̄l qvi cīc̄Q̄uzKf̄v̄te Rb̄v̄t̄bv̄ cw̄UciZv̄, ḡZ̄C̄P̄t̄L coj | Lȳ
Aciac̄`k̄, b̄qb̄w̄f̄iv̄ḡ | Avi I KZUk̄zhv̄l qvi cī t̄` Lv t̄M̄t̄j v̄ Āt̄bK̄,w̄j M̄t̄Qi mḡvMḡ |
M̄t̄Qi t̄M̄v̄ov̄ t̄` Lv h̄t̄Q bv̄ | M̄Q̄uji ĀtāR̄ cw̄bi bx̄t̄P̄ | cw̄bi Dct̄ii M̄t̄Qi t̄M̄v̄ov̄
AskuU m̄t̄ci b̄v̄q tc̄Q̄t̄bv̄ | v̄bxq t̄j v̄t̄Kiv̄ Ḡt̄K Ḡt̄P̄ ēt̄j | Gi `ēAw̄bK̄ bv̄ḡ
Pongamia sp. | ēp̄Ēi P̄EM̄Q̄ Gj v̄Kv̄q th̄ Kip̄ M̄Q̄ t̄` Lv h̄v̄q tm̄Uvi t̄_t̄K iv̄Zvi ,t̄j

cvl qv KiP Gi cvZvi Taxonomic description wfbae^QZi | PÆMØ Gj vKvq cvl qv
 KiP Gi ^eÁwbK bvg *Pongamia pinnata* | Avgiv KiP Mv‡Qi Dw^MC bgly msMØ
 Kij vg I Qle Ztj wQ| Gici Av‡iv wKQy† hvl qvi ci t` wL Avgvi gv_vl Dci GKwU
 Mv‡Qi c^ggÄix t` vj v w †Q| wW0 _wg‡q t` wL tmwU Avgvi ce@wPZ wRj MvQ| hvi
 ^eÁwbK bvg *Barringtonia acutangula* | wW0 wb‡q Avi GKUze‡bi wfZ‡i hvl qvi
 ct_ wW0 AvU‡K hvq| Avg cwbi wfZ‡i nvZ w †q t` Lj vg GKwU Mv‡Qi mv‡_ wW0 wU
 AvU‡K tM‡Q| cvZvmn GK nvZ cwgiY Wvj cwbi Dc‡i Ztj Avbv nj | fvj g‡Z
 ch^gyY K‡i t` Lv †Mj GuU eiab Mv‡Qi cvZv| mvaviYZ eiab MvQ cwbtZ, cwbi GKUz
 Dc‡i I cwbtZ wbgw⁴Z Ae †q R‡b‡_v‡K| eiab Mv‡Qi Dw^MC ZwZK bvg *Crataeva*
magna | Gfv‡e evsj vi AvgvR‡bi wfZ‡i wW0‡Z ` B Nbv N‡j Rj ve‡bi MvQcvj v
 ch^gyY Kij vg Ges coš‡etK‡j i tm‡` h^Qc‡fW Kij vg| evsj vi AvgvRb ivZvi „j
 Rj ve‡b cvl qv Ab^vb Dw^MC c^QZi g‡a“ wCujx (*Trewia nudiflora*), KvbwPiv
(*Commelina benghalensis*), bj LwMov (*Phragmites karka*), wQUwK
(*Phyllanthus reticulatus*), *Cyperus articulatus*, *Cyperus exaltatus*,
Ficus spp. c^QZ. Dtj b^QhW| Z‡e mWwK e^e‡cbvi gva‡g G c^QZK m‡ut` i
cwgiY Av‡iv ejx Kiv m‡e| i K‡bv tgšm‡g Rj ve‡bi tfZ‡i Aevta Mi‡gnl c‡k
Ki‡Z bv w †j c^QZKfv‡e RbW‡bv Pviv MRv‡bvi m‡hW cv‡e Ges et‡bi Rx‡ewP†
mgx n‡e| et‡bi Af^s‡i mxgZ AvKv‡i ch^QK c‡k Ki‡Z w †Z n‡e Ges G et‡b
evdvi‡Rvb I tKv‡Rvb wPwY Ki‡Z n‡e I i‡ay† evdvi‡Rvb ch^QK‡` i Rb^v Db^v
_vK‡e Ges eb I eb‡c‡xi Avev‡j msi y‡Y tKv‡Rvb me‡navi‡Yi c‡k wbl x
Ki‡Z n‡e| Zvntj B AvgvRvb L^vZ G ebfgi Rx‡ewP† w bwl b Av‡iv mgxkyj x n‡e|

Qj bugqox Dv^mC bwK tevKv gwby?

tgwnt vni K nwmw

Abwm^oq el ^otmkbt 2017-18

Dv^mC weAvb wef^m, XvKv wekile` vj q

GB wj LwU covi cti nqfZv GB ck^mB Avcbvi me^og gtb ntZ cvti | AvRtKi GB wj LwU Ggb wKQyDv^mC mbfq hvt i t^mL Avgiv Awakvsk mgqB f^mKti _wK GgbwK Avgiv th f^mKiQ tmwU eS^mZ cwi bv| Avi K_v bv emotq Dv^mC&tj vi m^mi cwiPq Kivtbv i^mKw |

c^mg Dv^mOui bvg evMwb wej vm| AtbtKB KvMR djy bvtgl w^mbb| wewfboewMwtb, w^mPvCwZob, Awdm Av` vj tZi t^mqj tN^mI G^mK t^mLZ cvlqv hvq| Dv^mC^mg^mt i hviv evMwb Ki^mZ fvtj vermb Zv^mi evMwtb metPfq mwaviY GK m`m GB evMwb wej vm| gj-Zt teShMbtfw^mq (Bougainvillea) tRbvtm tek KtqKwU cRwZ, Kw^mevi, msKi mevB evMwb wej vm bvtgb Pwiw tK Qmofq wQmUfq AvtQ| cwiPZ GKwU cRwZ ntj v Bougainvillea spectabilis Willd.| GB evMwb wej vm w^mKUwRbtm (Nyctaginaceae) cwi evti i m`m G^mt i j vj , te^mbx, nj y, Kgj v, mv v, tMj wic e^mY^mdj, t^mj vB gj- AvKtY^m wKs' Avgiv hvtK djy etj _wK Avmtj B wK tmwB djy? GLvtbB mevB f^mKti | GB evY^mAsk cKZct^ml djy bq, dtj i evBtii Ask| G^mtj v ek^m ev iacvsl Z gAixc^m, mwZKvi djy Gi wfZti msiw^mZ _v^mK | GB djy, t^mj v, "QvKvti nq Ges G^mt i tKvbtv eY^mqZv v^mK bv|

wZxq Dv^mOui bvg ctqfYwq n^mj I j vj cvZv bvgUv tek cwiPZ| %AvbK bvg Euphorbia pulcherima Willd. ex Clotz | GwU j RvZxq Dv^mC hv Euphorbiaceae cwi evti i m`m| Avgvt i t^mki bv, Ly bvgKiv we^mwkbx| Gi kx^mZi mgfq c^mZU Kv^mUi kx^mI @vj j vj t^mVkv t^mVkv djy v^mK hv mwZ^mB my i j v^mM t^mLZ| Zte G^mtj vI djy bv| G^mtj v KvP cvZv| G^mstmwqwtbi Dcw^mZi R^mb GgbUv nq| Ggb eY^mq cvZvi gvtS _vKv ^mY^m n^mY e^mY^mdjy gwbyRtbi bRtii Avotj B t^mK hvq|

ZZxq Dv^mOui bvg AvKvkgib| %AvbK bvg Acacia auriculiformis A. Cunn. ex Benth.| Bwb Kv^mVi R^mb tek cwiPZ n^mj I hLb mgq nq c^muqfb Avi nj y dtj dtj t^mq hvq ctjvUv MwQ ZLb n^mq D^mV gtbvg^mKi | Zvi i^mci GB tm^m t^mRt^mB K^me, i^mwe^mkv_ VwKj Gi bvg w^mQ^mtj b tmwbiSw^m | hvBt^mvK, GB M^mQ^mi djy t^mL gwby tevKv nq bv tevKv nq cvZv t^mL | Avgiv AvKvkgibi th cvZv t^mL t^m, t^mj v Avt^mSZ cvZv bq, t^m, t^mj v n^mj v cvZvi iacvsl Z ex..| Avt^m mnR fvlvq ej tZ t^mtj cvZvi tevUv iacvsl Z n^mq Ggb cvZvi g^mZv iac aviy Kti | cKZcvZv t^mLZ wKQy Avgj wK ev KbKPevi g^mZv wSwi Swi Zte Gi t^mLv cvl q

h^v i ag^v exR t_‡K bZy Pviv nevi mgq| Zvicti bZy c^vZv MRvtbv i i^vn‡j B Zv i^vcwš‡
n‡q h^vq|



PZyO^m¶Uj bvg n‡j v g^v ` v| G‡K wKZme fvlvq etj bvMewj ø Avevi c†‡j Lv bvgUvI
Ly gvbvbmb| Rubiaceae cwi ei‡i g^v ` v (Mussaenda) ‡Rvtmi Kg‡ewk mKj Dw^m‡KB
GB g^v ` v bv‡gB WvKv nq| cwi PZ wKQycRwZ n‡j v ‡My wC g^v ` v Mussaenda

philippica A.Rich., jvj ḡm̄`v *Mussaenda erythrophylla* Schumach. & Thonn., mv`v ḡm̄`v *Mussaenda frondosa* Hook.f. BZ̄w | Gt`i t_vKvq t_vKvq āt̄_vKv d̄j, t̄j v gvbt̄i bRi K̄to | Z̄te, n̄vu wK āt̄t̄Qb| t̄m, t̄j vI d̄j bv, t̄m, t̄j vI evM̄bwej v̄t̄mi ḡt̄Zv īcv̄sl̄i Z ḡAix̄t̄ | Z̄te t̄KD Zx̄ȳe w̄t̄Z t̄L̄t̄j wK̄ GB bqbw̄f̄i v̄g c̄t̄ḡAix̄i wFZ̄t̄i j wK̄t̄q _vKv d̄j t̄ Lvi t̄m̄f̄v̄M̄ n̄te |

c̄Ag Ges mēt̄Kl D̄w̄m̄C̄U i bv̄g n̄t̄j v Kj veZx | %eĀwbK bv̄g *Canna indica* L. | Gi ex̄t̄Ri `pZv, A¶q ,t̄bi Kv̄t̄Y ht̄Mi ci h̄y wJ̄t̄K _vKv R̄t̄b̄ Gi Av̄t̄iK mv̄_R̄ bv̄g mēR̄qv̄ GB Kj veZxi bv̄g AvR̄t̄Ki t̄c̄v̄t̄÷ Av̄v̄vi R̄t̄b̄ wK̄s̄ ex̄t̄Ri t̄K̄t̄bv̄ Aē`vb bv̄B | Aē`vb n̄t̄j v Gi dt̄j i | Avgiv nj̄y, jvj, Kgj v mn Ab̄vb̄ hZ ēt̄ȲPd̄j t̄L̄ gj̄t̄Zv t̄m, t̄j v t̄K̄t̄bv̄ d̄j bv̄, t̄m, t̄j vI d̄j i Ask w̄t̄kl | t̄m, t̄j v c̄KZct̄¶ īcv̄sl̄i ciM̄ Ü | GB īcv̄sl̄i Z ciM̄ t̄Ui mv̄_B d̄j i cv̄v̄o, t̄j v w̄t̄k GK̄t̄ GK̄U Abb̄ M̄v̄ Zix K̄ti hv̄ t̄t̄L Avgiv d̄j i cv̄v̄o t̄f̄te f̄j K̄ti ev̄m̄ |

Aw̄s̄b̄ȳt̄Z @v ḡt̄b̄ n̄q GgbB AmsL̄ D̄w̄m̄C̄ Avgit̄` i Pvi cv̄t̄kB Av̄t̄Q hv̄t̄` i t̄t̄L Avgiv f̄j K̄ti ev̄m̄ | GLb t̄mB t̄i ai c̄t̄b̄ Avevi wR̄Av̄v̄ Kv̄i th̄ GB D̄w̄m̄C̄, t̄j v Qj bvi ḡv̄t̄g Avgit̄` i GZ̄w̄ b̄ t̄ev̄Kv̄ ev̄b̄t̄q Ḡt̄m̄t̄Q, t̄ev̄Kv̄ ev̄b̄t̄"Q b̄wK Avgiv t̄ev̄Kv̄ et̄j B GB D̄w̄m̄C̄&t̄j v̄t̄K wPb̄t̄Z th̄t̄q f̄j K̄ti ev̄m̄? Avcbv̄t̄` i Kv̄t̄QB D̄Ēi wJ R̄v̄b̄t̄Z t̄P̄t̄q AvR̄t̄Ki wj Lvi BwZ Uvbj vg |

eb Av` vi gtbvñwi , bv , b

tgvñw§ tgvRt§ nK

Gg wdj (†R‡biUK BiAibqñi s GÜ erfq‡UK‡bj wR)

mnKvix AvavcK, Dw™ceÁvb wefM

PÆMO wekile` vj q

etþv Av` v bvgUv cQ` bv ntj Avgut` i Mkg evsj vq k̄vñúyAv` v, cvBb‡KvY Av` v, GKv½x BZ`w` bvg ,tj vI cRw Z Av‡Q, thUv Avcbvi cQ` nq tmUvtZB WwK‡Z cvtib| Zte % ÁwbK bvtgi †¶t† GKUvB bvg *Zingiber zerumbet* (L.) Roscoe ex Sm. | Zingiberaceae cwi ev‡i i GB GKexRc†x Dw™‡U † L‡Z A‡bKUvB Av` v M‡Qi g‡Zv hv Avgut` i wbZ` Lvet‡i eñenvi Kwi | Zte Ab`vb` cv_¶ _vK‡j I cavb cv_¶ ntj v Gi c‡vñebütm| c‡vñÄwi †Z ¶Y`vqx djy _vKvKjy xb mgq Gi eY@heR ntj I ax‡i ax‡i wcvQj Zij Rgy ntZ i iænq| hZ mgq hvq c‡vñÄwi i eY@ch@µtg Dctii w K †‡K wb‡Pi w †K j vj eY@‡Z _v‡K| cwi bZ eq‡m Gi dj‡K † L‡Z wKOv Rj šlgkv‡j i g‡Zv g‡b nq|

gRvi weIq ntj v cvZvi Avor‡j GB c‡vñÄwi Ggbfv‡e †X‡K _v‡K nq‡Zv Ggb Mv p eY@v ntj fv‡j fv‡te bv † L‡Z Kv‡ivi bR‡iB cot‡v bv| GB c‡vñÄwi i MVb † L‡Z wKOv cvBb M‡Qi †Kv‡bi (exRvavi) g‡Zv † Lvq ej v cvBb‡Kv Av` v ej v WwKv nq|



GB eb Av` v Avgut` i †‡ki wevfb‡vqMvq, ejb R½‡j wbR †‡KB R‡b¶| GB eb Av` vi Aw` wbewm fv‡Zq Dcgnut` †k ntj I fv‡Z, evsj v‡` k, Pxb mn cvk‡Z‡K‡qK‡U †‡k wbR †‡K R‡b¶| Avevi A‡‡v‡q, ÜqvB, gvtj wq‡v, B‡v‡b‡q‡v, Avie Gi g‡Zv †ek wKOv †k cwi ewZ‡ n‡qI †mLv‡b wb‡R‡K my i fv‡te gw‡b‡q wb‡q‡Q| GB eb Av` vi ivB‡R‡g †‡K

tek₁KOyj-erb thSM cvl qv hvq hvi gta metP₁q KvhQix ntj v erumbone | GB Dcv` vboJB Gi mKj ,tbi inm| GQvor Abvb carb thSM ,tj v ntj v humulene, camphene camphene, sabinene, zingiberene, lavandulyl acetate (D. Dai *et al.* 2013). 3-O-methyl kaempferol, kaempferol-3-O- (2, 4-di-O-acetyl- α -l-rhamnopyranoside), kaempferol-3-O-(3, 4-di-O-acetyl- α -l-rhamno-pyranoside) | GQvor G₁Z D₁vqx tZj , terpinenol Gi Dcv` ZI cvl qv hvq |

hvBt₁nK, GB eb Av` v₁K wb₁q ej vi g₁Zv tek₁KOy, bv₁b i₁tq₁Q| hvi gta metP₁q te₁K cR₁j Z ,b ntj v Gi c₁yugÄwi tZ Rgv Zitj i eenvi | w₁gD₁m₁tj Rgq GB Zij w₁c₁WQj , -Q, ZK₁K gmY. Kivi ,b Av₁Q etj G₁K c₁KuZK m₁v₁u₁ntmte ev K₁Ükbvi w₁ntmte eenvi Kiv hvq| ZvB tZv Gi Av₁i KuU bvg m₁v₁u₁Av` v| AuaKsk mgqB tKv₁tv D₁m₁C i bvg Zvi %₁nkó", i₁aci Dci w₁f₁E K₁i ntq _v₁K| gRvi w₁lq ntj v Gi t₁tK Zij msM₁ K₁i j₁KOy tbi gta Aver₁iv Zij Rgv nq, Gf₁te GKuU D₁m₁C t₁tK GKB t₁g₁sm₁g K₁qKevi eenvi Kiv hvq| Avi GB Zij m₁v₁u₁ eenvi Kiv hvq, tKv₁tv mgm₁ v nq bv| h₁t` i Gj w₁R₁P mgm₁ v Av₁Q Zv₁ i eenvi Kivi Av₁M GKUymZL₁Zv Ae₁ a₁b KivB D₁Eg|

GQvor, GB eb Av` v t₁f₁R D₁m₁C w₁ntmte c₁m₁x| Avqje₁©| BD₁bw₁b w₁Krmvq Gi eenvi i₁tq₁Q Z₁e eb Av` v b₁tg b₁, GKv₁z b₁tg| evRv₁i| GKv₁z b₁tg w₁nu Kiv nq D₁P` v₁g| m₁v₁u₁YZ Gi ivBt₁Rvg Av` vi g₁Zv K₁i t₁Qv₁U₁Qv₁U₁Kiv K₁i w₁t₁b `₁Z₁bevi GK Pv₁gP K₁i im t₁L₁j W₁Üv, m₁w₁©Kw₁k w₁K ntq hvq| Z₁e GB im givZ₁K w₁Zv, t₁L₁j e₁S₁t₁eb w₁Zv K₁tv etj | ZvB tZv G₁K Bst₁w₁R₁Z Bitter Zinger b₁tg W₁Kv nq| ax₁i ax₁i mn b₁tgi inm₁gqZv ,t₁j v c₁w₁u₁ ntq h₁t"Q bv? n₁w₁u₁Zvntj Avi bvg, t₁j v KóK₁i g₁t₁b ivLv j vM₁te bv, ,bv₁b t₁tLB etj t₁qv hvte|

íaym₁ w₁Kw₁B b₁, Gi eenvi t₁L₁v hvq Av₁iv tek₁KOy t₁v₁Mi w₁Krmvq| t₁hgb, t₁c₁Ue₁ v, K₁gi mgm₁ v, Pg₁D₁M BZ₁w₁i w₁P₁Krmvq Gi KvhQix f₁gKv i₁tq₁Q| w₁du₁c₁B₁t₁b eb Av` vi ivBt₁Rv₁gi ,t₁ov eenvi K₁i W₁Bv₁qv t₁v₁Mi w₁P₁Krmv Kiv nq| GQvor Gi Rx₁by a₁smKvix ,bv₁bl i₁tq₁Q| B₁u₁i Dci M₁tel Yv K₁i t₁L₁v t₁M₁Q w₁rfbo₁i₁bi t₁c₁U₁t₁Rv₁qv, e₁W₁K₁qv, Q₁W₁K a₁sm K₁i t₁Z m₁T₁g GB eb Av` v| Ggb₁K GB eb Av` v e₁v₁b₁kK w₁ntmte eenvi Kiv hvq|

Z₁e, GB eb Av` v GZ DcKvix ntj l w₁P₁Krmvq eenvi m₁veavbZv Ae₁ a₁b Kiv j vM| me₁KOy DcKvix Ges AcKvix Df₁q w₁KB i₁tq₁Q GB ebqv` vi t₁¶₁¶₁I GKB| GB eb Av` v GKuU w₁b₁ o c₁w₁g₁t₁bi t₁ek t₁L₁j Z₁xe₁el w₁qv t₁L₁v hvq hv c₁NvZx₁ ntZ cv₁i Z₁e w₁b₁qg tg₁t₁b m₁W₁K c₁w₁g₁t₁b t₁L₁j t₁Kv₁tv Am₁av bvB|

GZ ,bv₁b _vKv m₁Z₁ bv GB eb Av` v₁K w₁P₁b₁Z bv t₁c₁i A₁t₁b₁KB Av₁Mv₁Q w₁ntmte t₁K₁UI t₁d₁j | Z₁e g₁W₁i w₁b₁P _vKv ivBt₁Rvg t₁t₁K eske₁w₁. nq etj w₁KOygm c₁i Avevi w₁R t₁t₁KB M₁R₁t₁q D₁V| Gf₁teB Giv e₁Q₁i ci e₁Oi w₁J₁K Av₁Q| Z₁e t₁h n₁t₁i eb-R₁z DRvo ntq h₁t"Q Rwb bv Avi KZ₁b w₁J₁K _vK₁Z cv₁i e₁|

KvVi Lyi fgtiLvi teo bYPI K'wUj fvi tUw-s

W. Aia Kovi jwox

1. $\div \text{vUW} \otimes \text{BwAbqws digj-r}$ KvVi e` yZK Lyi (veZiY I cwiPvj b j vBtbi Lyi) fgtiLvi bjbZg teo bYPI Rb" btpi $\div \text{vUW} \otimes \text{BwAbqws digj-wU}$ (GGmUGg $\div \text{vUW} \otimes 990$) ctM R" ev ctM Kiv nq:

$$C = 3 \sqrt{\frac{\text{effective length(ft)} \times \text{bending loads or horizontal loads(pounds)}}{0.000264 \times \text{green fibre stress(Psi)}}}$$

2. **digjvi A_Ges d±i:** Dcti i $\div \text{vUW} \otimes \text{BwAbqws digj-wU} \pm Z$ "C" ntj v Lyi BwAZ fgtiLvi bjbZg teo (BwA±Z); effective length ntj v Lyi fgtiLvi Ges Lyi gv_v t±K 2 d± btp thLvtb tj w nq tmLvbKvi ga`eZr©` i-Zi (d±-G); factor 0.000264 Gi gta" Asf® nq gwzvm Ae Bj vmlUmlU, 145 Ktj wglvvi/Nuvq (90 gvBj/Nuvq) StoI MwZ mn`ygzv, BZw` Ges fiber stress ntj v KvR Ae`q KvVi cRmZi Bbtnti>U BDlbU gwzvm Ae ivcPvi |
3. **KvR Ae`q wRvBb Kivi A_KvVi Lyi Ggbfite wRvBb Kiv nq th GKB tkOi Lyi cRmZ I ^ N©bneRtI KvR Ae`q mgvbj tj w enb Kti; Ks'KvVi dvBeri t±n wewfbce nIqvi KviY Lyi fgtiLvi teo (thLvtb Lyi gv_vq cOE mte® tj w cRm nq) wewfbceRmZi Lyi Rb" wewfbce |**
4. **K'wUj fvi tUw-s:** mKj Lyi cRmZ I ^ N©bneRtI wewfbceRkOZ wef³ Kiv nq | GB tkO, tj v Avtm KvR Ae`q Lyi gv_v t±K 2 d± btp wbr` ®nivBtRvbUj tj w cRm Kivi Dci | Lyi tMov t±K fgtiLvi ch®k³ Kti `vcb Kti wbtq nivBtRvbUj tj w cRm Kti Lyi tftz tdj v nq | Lyi fvvi mgq wBbvtgwglvvi Øiv nivBtRvbUj tj w wj wce x Kiv nq Ges GiUKB K'wUj fvi tUw-s ej v nq |
5. **fgtiLvi teo wme Kivi D`vniY:** hgiitot` mv`vb©cvBb Lyi dvBeri t±n ntj v 8,000 wGmAAB, GKU 7-25 d± Lyi BtdKUK tj s' ntj v {25- (5+2)}=18 d±, Km 7 Lyi nivBtRvbUj tj w ntj v 1200 cvDÜ| Dcti evY© digj-v Abmti mv`vb© cvBb Lyi fgtiLvi teo nte 23 BwA (ivDÜ wdmvi) |

XvKv wekile` "yj q cÖöv Ges Dw™cieÁvb wefvMi - Sz

AaÜcK (Ae.) W. Znimbv iing

Dw™cieÁvb wefvM, XvKv wekile` "yj q

Augvi wekile` "yj q ikýv Rxeb i iæ n‡qij 1964 m‡j | ikýv Rxetb hv tkLvi, Rvbvi meB Avgit i Ávbx-, bx m‡vi t` i t`K tkLvi | Avgit` i wefvM gvtb Dw™cieÁvb wefvM iQj KvR© ntj AeWZ| KvR© nj GKUv t` Lvi gZ K`vúvm| GK GKUv wev s GK GKUv wefvM| GB wefvMi wKOz cwi eZl©ntqtQ| Avgit` i mgq wefvM tXvKvi wmo iQj Gd GBP ntj i w` t`K| Avi wKOyj PzMvQ iQj| tmLvtb Avgiv etm Mí Ki Zvg| Mvox, wi KmV meB | Lvtb QvI-QvIxt` i bvgitZv| Avgit` i mgq QvI-QvIxt` i wekile` "yj tq Avbvi Rb" tKvb evm iQj bv| th hvi gZ wi KmV, evtm A_ev MvoxtZ Pto AvmtZv| tg‡qt` i nj iQj GKUv 0tivtKqv nj 0| cti Aek` AvtKUv nj tmUvi bvg 0kvigm‡xi nj 0| wefvM 3 eQi weGwm (Abwm)Ges 1 eQi Gg Gm w m efvU 4 eQi ikývRxeb| cÖövK Kv‡m tq‡j t` i Zžbvq tg‡qiv tekx iQj | QvI ivRbxZ iQj bv|

ikýK QvI-QvIxt` i gta" GKUv i-Zj iQj | ikývB GKgvI gj-gšj iQj | Avgiv m‡vi t` i LgB m‡gib Ges fq KiZig| XvKv wekile` "yj q ikýv gvb, Mtei Yv GZ Dbže iQj hvi Rb" ejv n‡Zv cÖP"i A- tdlW© 1921 m‡j i 1 j v RjvB ng. Wc Avb nvUphib j Üb wekile` "yj tqi tiwRóf iQj b wZib cÖj fvBm Pv‡Yj i wntmte thwM`vb K‡ib XvKv wekile` "yj tq| Aí msL"K ikýK, 3iU d'vKwë (Arts, Science and Law) wbtq Gi hñv i iæ nq| cÖj KbtfvitKkb 1923 m‡j AbjZ nq| Pv‡Yj i iQj b j w@j Ub| K‡qK eQi ci GB XvKv wekile` "yj tq evsj vi Ávbx-, bxi mgvtek NtU| 1926 m‡j weLvZ Kwe, iæ (tbvtej weRq) iex` Bv_ Wk‡tK msea@ t` q Zvü cwÜtZ`i Rb" | wet` ihx Kie KvRx bRiaj Bmj vg‡K 1936 m‡j wekile` "yj q msea@ t` q| tj LK kirP` aP‡Evcia iQ Ges Kie, iæ iex` Bv_ t`K D. lit Ges Honoris Causa DcwatZ f‡Z K‡ib 1936 m‡j | 1974 m‡j wet` ihx Kie KvRx bRiaj Bmj vg‡K D. lit Ges Honoris Causa DcwatZ f‡Z K‡ib| XvKv wekile` "yj q i i‡Z 877 Rb QvI-QvIxt iQj | Avt`Avt`QvI-QvIxt msL`v evo‡Z _t`K| ikýv Rxeb tkI K‡i tKD ikýK, miKw PvKiz, Mtei Yv Kv‡R thwM`vb K‡ib Ges Ph.D, D.Sc. wMÖAR©K‡ib| 1926 m‡j t`vaxbZv Avt` yj b, eWjk we‡ivax Avt` yj b, fvlv Avt` yj b 1952, cwK`ib Avt` yj b, w` ygyij g ivRbvwZK tRvU 1964, 1966 t`K 6` dv Avt` yj b 1971 G i iæ nq| 1947 m‡j 5iU wefvM, 17Rb ikýK ikýIxtK wbtq XvKv wekile` "yj q GwM‡q Pj t`j v| eZ@t`b 4eQi e`v‡Pj i, 1eQi gv÷wm@wMÖGwidj wMÖGes wC GBPwv wMÖQ` qv n‡Q|

ikývMZ gvtbi Mtei Yv AvšR©ZK gvtbi w` t`K j y` t`L we‡k`i Dbže wekile` "yj tqi m‡_cÖ‡thwMZvq t`b K‡i wbtZ nte ZteB XvKv wekile` "yj q we‡k`i Ab"Zg wekile` "yj q wnmvte cwi wPwZ cve| XvKv wekile` "yj q 102 eQti c`vc©K‡i t`j v| Avgv wbtRB GKRb ikýK iQj vg 1970-2013 ch‡i wC. GBPwv wMÖAR©K‡i iQj 2002 m‡j | GB wekile` "yj q Mtei Yv, ikývq Avi I Dbžentq mg`i we‡k`i cwi wPwZ AR©K‡i GUvB Avgvi GKvšÍKvg| cwi t`K t`i ej t`Z PvB KvR©nj Ges XvKv wekile` "yj q m‡útK@K0ZK_y Ztj aijvg, hv AtbtKib ARvbv Gi DrcwE | eZ@t`b Ae`t`i wekile` "yj tq we‡k`i K‡i Dw™cieÁvb wefvMi - Szgq w` t`j vi K_v g‡b K‡i AtbtK fvj j v‡M| Avgvi hv Rvbv-ARvbv XvKv wekile` "yj q DrcwE, Ae`t`b meB ARvbv ZvB &Uv tWBvj ÷vi cwi Kv cto mevBtK Rvbv j vg| AvR GB ch‡i AvMvgx AtbtK ARvbv weI q Rvbv‡Z hv‡Z my_wK GB t`vqy tP‡q AvR GLv‡bb t`Kl Ki iQ|

evsj v` tk 17 cÖnZi AñKñi Awë®vi

tgvnv¤§ tgvr¤§ nK

Gg ndj (tRtbUK BñÁibqwi s GÜ ev‡qv‡UK‡bvj nR)
mnKvi x AvañcK, Dñm¶neÁvb nefvM, PÆMÖ nekiñ` vj q

AñKñi cñlexi meçB cvl qv hvq | Zte cñlexi tKvb tKvb t` tk Giv cÖZ R‡¤§, Awëvi Ab`
tZvyl Zv neij | Qwo‡q Av‡Q `nyY Av‡gwi Kv, ga` Av‡gwi Kv, AwñdKv, `nyY-ceñkqv, Pxv,
Rvcvb, wdlj wdb ñxccñ Ges neñfbognwm Miq ñxccñ | K0zñK0zRv‡Zi AñKñi BD‡iv‡c t` Lv
hvq | Atóñ q‡ZI G‡i cÖnZ neñZ fvj | fvj Z I AñKñi mgx | vngv‡q iR` tbcyj Ges
flvb AñKñi mgx |

evsj v` tk AñKñi mgx Añj nj PÆMÖ, cve‡ PÆMÖ, K· evRvi, mñtj U, gqgbwmsn,
UvñBj, MñRcij, Ljbj my ieb I htivi |

AñKñi cñbZ Dò Av` Añvenvl qvq, MÖscñb t` tk i eñj vj Z Mfxi ebyñtj Ges
bwñZkñZvñO tgñvñZ AbiñY | MÖscñb t` tk i Rñtj G‡i mnñR cvl qv hvq | tmLvtb G‡i
metP‡q teim msLñK cÖnZ | AñKñi ZvB mñavi YZ MÖscñb t` tk i Dñm‡ ej v nq | AñKñi
cñi evi ev AñKñi m cñ 28484 cÖnZ 880 Mb wbtq Dñm‡ RM‡Z Avmb Kti wbtq‡Q | AñKñi
wbtq PÆMÖ nekiñ` vj tq hviv Mñelbv KtiñQb Zv‡i gña` Ab` Zg nt"Qb cÖZ cñlmi W.
tgvnv¤§ Kvgifj û`v, W. tgvnv¤§ tgñKZvi Awñv¤§ Ges tgvnv¤§ tgvr¤§ nK | cÖZ cñlmi W.
tgvnv¤§ Kvgifj û`v 2000 mñtj AñKñi wbtq nC. GBPñW K‡ib | Awñg tgvnv¤§ tgvr¤§
nK, cñlmi W. tgvnv¤§ Kvgifj û`v Zñveavt 2003 mñtj Gg Gm mñ MñMÖRb Kvñi Ges
AñKñi 2 mñ cÖnZ Awë®vi Kvñi | 2008 mñtj cñlmi W. tgvnv¤§ Kvgifj û`v cññKZ
Mñelbv cññU vj tLb 70 Mñbi Awñt 179 mñ cÖnZ AñKñi evsj v` tk cvl qv hvq | metkl
2017 mñtj cñlmi W. tgvnv¤§ Kcgifj û`v cññKZ Mñelbv cññU evsj v` tk cññ AñKñi 72
Mñbi Awñt 188 mñ cÖnZ, Zvi gña` cññKZ 117 mñ cÖnZ 41 mñ Mñbi Aaxt, fñg AñKñi 71
mñ cÖnZ 33 Mb | 2019-2021 mñtj Mñelbvq Dñm¶neÁvb nefv‡Mi `BñRb wkyK cññ
cñlmi W. tgvnv¤§ Kvgifj û`v I tgvnv¤§ tgvr¤§ nK Ges I qvñtñy Avj g nñJñqj Pñiñ
evsj v` tk 17 cÖnZi AñKñi Awë®vi K‡ib hvñv t` kx I AñRñZK Rvñ‡j cññKZ nq,
AñKñi ,tj v nt"Q 1. *Coelogyné schultesii* Jain and Das mñtj tUi Rqšéy t` tk
mñMñxZ; 2. *Coelogyné suaveolens* (Lindl.) Hook. ev` ieñbi PññtK t` tk mñMñxZ; 3.
Coelogyné trinervis Lindl. ev` ieñbi igv 4. *Chiloschista parishii* Seidenf.
ZvñPi, tigvLñ ev` ieb t` tk mñMñxZ; 5. *Coelogyné ovalis* Lindl.; PññtK cvñvo,
ev` ieb t` tk mñMñxZ; 6. *Conchidium extinctorium* (Lindl.) Y.P.Ng & P. J.

Cribb. ZvbwPi, tigvLr ev` ieb; 7. *Dendrobium parcum* Rchb.f. Rvnvb cy, tUKbd; 8. *Coelogyne schwadtkii* Danell. eMj K cvov, igv, ev` ieb; 9. *Cleisostoma williamsonii* (Rchb.) Garay. Rqšlcjy, Rvdj s, mxj U; 10. *Phalaenopsis difformis* (Wall. ex Lindl.) Kocyan & Schuit. Rqšlcjy, Rvdj s, mxj U; 11. *Pinalia obesa* (Lindl.) Kuntze, 12. *Pinalia spicata* (D. Don) S. C. Chen & J. J. Wood. tKI Kviws, igv, ev` ieb; 13. *Pinalia acervata* (Lindl.) Kuntze. tKI Kviws, igv, ev` ieb; 14. *Bulbophyllum rufinum* Rchb. f. eMj K cvov, igv, ev` ieb; 15. *Bulbophyllum crassipes* J. D. Hook. `gkqjy tavcQno, ivbqv; 16. *Aerides roseum* Loddiges ex. Lindl. ZvbwP, tigvLr ev` ieb; 17. *Bulbophyllum cylindraceum* Wall. ex. Lindl. Rqšlcjy, Rvdj s, mxj U t_‡K msMpxZ | hvnv PÆMÖ wekiè` vj tqi Dw™C D` vtb AñKvD‡R msi ýxZ Av‡Q|



Coelogyne schultesii Jain and Das



Coelogyne suaveolens (Lindl.)
Hook. and



Coelogyne trinervis Lindl.



Chiloschista parishii Seidenf.



Coelogyne ovalis Lindl.



Conchidium extlectorium (Lindl.)
Y.P.Ng & P.J.Cribb.



Dendrobium parcum Rchb.f.



Coelogyne schwadtkii Danell.



Cleisostoma williamsonii
(Rchb.)Garay.



Phalaenopsis difformis (Wall. ex
Lindl.) Kocyan & Schuit



Pinalia obesa (Lindl.) Kuntze.



Pinalia spicata (D. Don) S. C.
Chen & J. J. Wood.



Pinalia acervata (Lindl.) Kuntze.



Aerides roseum Loddiges ex.
Lindl.



Bulbophyllum cylindraceum Wall.
ex. Lindl.



Bulbophyllum rufinum Rchb. f.



Bulbophyllum crassipes J. D. Hooker

DW^MC i gnwk^b hvlv

c^fdmi Kvgvi And^ti^R Amt^g

DW^MQleAvb wefM, XvKv K^tj R, XvKv

gnwK^tk International Space Station (ISS) A₁P gnwKv^k M^teI Yv tK^t «^wCZ n^tqui ci t^tK b^tf^vPwi^t i b^tf^vh^tb Ae^tbi mgq^t xN^tz^tK^t xN^tz^ti nt^tQ | d^tj b^tf^vPwi^t i Lv^t Zwj Kvq m^tZR I me^R me^R Ges Zv^t i GbwR^tj tej wK ivLvi j^t¶ gnwk^b wf^tEK DW^MC Drcv^t b Gi we^tqu^t we^tkl^t iaZ^tj vf K^ti | 2010 mt^tj i w^tK ISS-G 20 ai^tbi Dw^MC Rb^ttbv nq Ges M^teI Yv c^tw Pwj Z nq |

ISS-G mwavibZ wefboei^tbi Dw^MC Vaggie Garden-G Rb^ttbv nq | Vaggie nt^tQ GK ai^tbi enb^thwM^t tQwU evMvb hv 6wU K^ti Dw^MC avib KitZ c^ti | GB Dw^MC ,tj v Vaggie-i gta^t Pillow bwgK c^ti Ae^tvb K^ti | GB Pillow ,tj v gwU ev Kv^tv, wefboe ai^tbi mvi l tM^t ugi^tu^t gk^tY %Zix nq | thLvtb gwU, c^to Dcv^tvb l evZv^tmi Pj vPj tK mybqsj^t Kiv nq| ga^tvK^tY^tkr^ti AeZ@t^tb Dw^MC LED (Light Emitting Diodes) Av^tj v e^tenvi K^ti dt^tj Av^tj vi GKwU eY^t (Spectrum) my^to nq | Dw^MC c^tp^ty c^tw g^ttb me^R Av^tj vi c^tZdj b NUwq Ges j vj l bxj Zi^t %^tN^t Av^tj v teik e^tenvi K^ti dt^tj Vaggie Chamber ,tj v tg^tRUv l tMy^twc e^tY^t Lwq| Vaggie Garden-G mwdt^tj i mw^t Rb^ttbv Dw^MCmg^tni gta^t itq^tQ wZb ai^tbi tj Uy, PvqibR evavKic, Kgj v ist^tqi wRwbqv BZ^tw^t |

GLvtb D^tj b^t th Dw^MC wK^ts Av^ti^R At^tbK Av^tMB A₁P 1946 mw^tj gnwK^thy i^tok V-2 i^tKtU we^tkl f^tte Drcbo^tAv^tR (Maize Seed) Gi gva^tg gnwk^b Rq K^ti | fA^thK Ab^tyi Y K^ti ivB (Rye) Ges Zjw (Cotton) exR | 1966 mw^tj Kosmos 110-G Harvard University Ges Naval Research Laboratory-tZ Radiation c^tqMKZ. tj Uy, evavKic | kxgRvZxq Dw^MC i exR ISS G Rb^ttbv nq| c^textZ vfw^teK c^tw teik dj tbi Zj^tbvq hvi dj b wQj At^tbK teik| GQrov 1971 mw^tj DcM^th Pv^tj i Pvic^tk ågbKvix Apollo-14 G e^tl RvZxq Dw^MC (thgb: Pine, Redwood, Sycamore, etc.) Gi exR gnwK^k ågb t^tk^tl c^textZ Zv ecY Kivi ci tKv^t c^tw eZ^tQrovB vfw^teK e^tx t^tLv hvq |

we^tki wefboe^t tki Qv^t-Qv^tx l Zi^tb M^teI K^t i Rb^t gnwK^thy i^tok NASA (National Aeronautics & Space Administration) wefboeai^tbi M^teI bv l c^tZthwM^tZvi e^te^t K^ti _v^tK| Gikqy AAt^tj i Rb^t tZg^tb GKwU M^teI bv cK^ti nt^tQ AHIS (Asian Herbs in International Space Station) |

Rvc^tbi - Japan Aerospace Exploration Agency (JAXA) Gikqy c^twm^tdK AAt^tj i Zi^tb^t i Rb^t Astrobiology ev Space Biological Research Gi e^te^t K^ti | JAXA

eZ@tb SSAF (Space Seed for Asian Future) bvgK ewl R cKí wbtq KvR KítQ| hvi DfÍ k" n"Q ISS-G GKU Sustainable Food Chain Mto tZyj v |

USA Gi MIT tZ KgZ evsj vt` kx esjkv™Z weÁvbz cfdmi wgrvbj tPšajk Gi mnvqZvq STEMX 365 BD Ges evsj vt` k miKvii i thš_ Df" "M evsj vt` k c_gereti i gZv AHIS Gi wgb-2 G AskMkY Kiv mjhM tctqtQ | ZviB avivewnKZvq Avgt` i AwZ cwiPZ evsj vt` tki Coriander (atb) Gi exR evsj vt` k miKvii weÁvb I chy³ gšbyj q, evtqyUKtbyj WR BÝJUDU (BIBT) I weÁvb hv` Ntii mnvqZvq ISS-G (International Space Station) G tcY Kiv ntpQj | 6 gvm gnvKv k ágb tkil Coriander (atb) exR 2021 Gi gwP@vtm cw_lextZ wdti Avtm| eZ@tb exR ,tj v JAXA Gi ZEneatb msiwTZ Ae⁻tq AvtQ| GB exR ,tj v w⁻tq cieZ@Z Avgt` i t` tki QvQvTxiv Astro-botanical MtelYv Kite| A_P gnvKv k lRb ib⁻ (Zero/Micro Gravity), D" P Pvtc, wbqwsZ cwi teek (Zvc, Avtj v, O₂, Av²) _vKv exR ,tj v cw_lexi w⁻fwewK cwi teek ecY I Rbw⁻bvi wewfboc@ Ges tRbtUK cwieZ@ ev Avgt` i tniidi nq wKv Zv ch@P Y Kite | NASA-i Space-garden %Zixi GKU Ask wntmte cwiPZ wetePZ nte |

Space-garden n"Q gnvKv t⁻k⁻b lRb ib⁻, D" P Pvtc, wbqwsZ cwi teek wewfboc atbi Dw" C Rbw⁻bvi gra⁻tg evMvb %Zix Kiv| GB evMvb btfvPwi t` i Lv⁻ Pwn⁻v tgUv⁻bvi cirkcwk my i b⁻wbK I we⁻x cwi teek my i gra⁻tg gybw K ckwshetq Avbte |

Coriander (atb) m₁ K_v

Avgt` i AwZcwiPZ Apiaceae tMv⁻f⁻ Coriander sativaum GKU elRex weiar RvZxq m₁h⁻ (Aromatic) Dw" C| hv Lv⁻i ,bv, b I ^v epxKv K Ges tfIR ,Y m₁ubfe GB Dw" CwU wfUwgb, GwU-Aw tWU, LwbR mgx| GQovv GwU-Gj wRQ, GwU-WqwtUK ,b m₁ubfe t⁻j w⁻Z i³ KvKv (RBC) evx. Kti, wecvK c_uqiq mnvqZv Kti Ges ü` h₁sz Kv⁻gZv evovq |

Avgiv Rwb, MZ 2018 m₁j i tg gvtm evsj vt` k w₁tk| 57Zg RvZ ev t` k wntmte gnvk⁻ Zvi c_g f-DcMk 0e%eÜym⁻Uj vBU-10 tc₁b Kti gnvKv Rq Kti| GB gytZ⁻ evsj vt` tki Coriander ev atbi gnvKv hv⁻v ZvB L₁B mgfqcthvMx Ges ,iaZc₁y⁻Ubv|

References

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Ph.D. MMkj vf



W. tgj v ti RvDj Kwig

Rvnvxi bMi wekje` vj tqi Dw^MøieÁvb wefM t_‡K Ph.D. MMkj vf Ktj tQb eb Awa` Bti KgØZ eb msi ¶K Rbve tgj v ti RvDj Kwig | mvZ¶xiv tRj vi Zj v Dc‡Rj vi evMgviv M^tgi Avj nR RqØyb tgj v Gi mšib Rbve tgj v ti RvDj Kwig 22Zg wevmGm eb K^Wit i KgØZintmte eb Awa` Bti KgØZ _vKvKv jY wZib evsj vt`ki I `¶xb Gikqvi enEg mvdvix cvK©e½eÜytKL gyRe mvdvix cvK© MvRxcjy Gi Dw^MC%eP† I Zvi gxEKvi ,bv,b m¤úKØ weftq Mtel Yv Ktib | Zvi Mtel Yvi AbjÜF@j ØStudy on the Vascular Plant Diversity and Soil Nutrient Status of Bangabandhu Safari Park, Gazipur, Bangladesh. evsj vt`ki ¶lqøy kvj eb I Zvi Rxek¶PI msi ¶tbi j t¶t eb Awa` Bi KZØ.GKmgjqi cñq wej ß kvj etb Mto tZj v e½eÜy tKL gyRe mvdvix cvK©MvRxcjy Gi Dw^MC%eP† I Zvi gxEKvi ,bv,b m¤úKØ weftq ev-egw I cñqMK ÁvbiRØi j t¶t Rvnvxi bMi wekje` vj tqi Dw^MøieÁvb wefM Plant Ecology and Environment Laboratory wZib LÜKv jY Mtel K intmte Zvi Mtel Yv KvR m¤úboktib | Rvnvxi bMi wekje` vj tqi Dw^MøieÁvb wefM %Rö w¶K weikô cwi tek weAvbx cñdmi W. tgjvnaß gndRy ingvbi ZZyeavt wZib Zvi Mtel Yv KvR m¤úboktib | Zvi Mtel Yv evsj vt`ki ¶lqøykvj eb I Zvi Rxek¶PI msi ¶tbi t¶t iazcYCAe`vb ivLtz m¶g nte | eZ@t wZib PÆMtg Aew-Z evsj vt`k d‡i ÷ GKjWgxi cwi Pvj tKi ` wqZicij b Ki tQb |

gwnb Avd‡ivR

gwnb Avd‡ivR, wZv: tgvt kvnRvnv Lvb, gvZv: tgjy jw teMg | tm gyMÄ tRj vi vni vRw Lvb _vbi AšMØ KwRiem MÖg RbMÖK tib | gwnb Avd‡ivR 2022 mvtj i 31 At‡vei XvKv wekje` vj tqi Dw^MøieÁvb wefM ntZ “Characterization of wild jute species through molecular cytogenetics” wkti vbg kxI R wGBPwW wMMÖRØKtib | tm GKB wefM ntZ 2010 mvtj we.Gm (m¤jb) | 2011 mvtj Gg. Gm wMMÖrcbdetib |

Zvi mweP Kj vtYi Rb mKtj i t` vqcoQ@

ØAa“icK W. tgvt Avejy nvmvb U‡÷ dñU0 evsj †` k tevUwbK“yj tmvmnBwJ



mgdqv Av³vi

mgdqv Av³vi Dw™øieÁvb wefvM, XvKv
wekile` vj q ntZ 2020 mv‡j i †zK (m¤yb)
Povšl cixyvq 3.95 tc‡q mteCP CGPA
ARI® K‡i ØAa“icK W. tgvt Avejy nvmvb
U‡÷ dñU0 ev‡ j vf K‡i |

mgdqv t`

mgdqv t` Dw™øieÁvb wefvM, Rvnv‡xi bMi
wekile` vj q ntZ 2020 mv‡j i †zK (m¤yb)
Povšl cixyvq 3.95 tc‡q mteCP CGPA
ARI® K‡i ØAa“icK W. tgvt Avejy nvmvb
U‡÷ dñU0 ev‡ j vf K‡i |



‡gjQvt Zvnigbv teMg

‡gjQvt Zvnigbv teMg Dw™øieÁvb wefvM,
ivRkvnx wekile` vj q ntZ 2020 mv‡j i †zK (m¤yb)
Povšl cixyvq 3.92 tc‡q mteCP CGPA
ARI® K‡i ØAa“icK W. tgvt Avejy
nvmvb U‡÷ dñU0 ev‡ j vf K‡i |

tgvt tgvt †Kg

tgvt tgvt †Kg Dw™øieÁvb wefvM, PÆMÖ
wekile` vj q ntZ 2020 mv‡j i †zK (m¤yb)
Povšl cixyvq 3.81 tc‡q mteCP CGPA
ARI® K‡i ØAa“icK W. tgvt Avejy nvmvb
U‡÷ dñU0 ev‡ j vf K‡i |