



উক্তিদ বার্তা

৩৩তম বর্ষ ১ম সংখ্যা অগ্রহায়ণ ১৪২৫ / ডিসেম্বর ২০১৮



বাংলাদেশ বোটানিক্যাল সোসাইটি
উক্তিদবিজ্ঞান বিভাগ
ঢাকা বিশ্ববিদ্যালয়

Dw™c evZ®

[evsj vt` k tevUwbKvj tmvmvBwUi evsj v gJcI]

33Zg el®ig msL®v AM®nqY 1425/Wtm® 2018

m®uv` Kxq	
c®ub m®uv` K	mevBtK bZb eQti i i®f"Qv Avkv Kvi Bst i Rx 2019 mvj Avgut` i Rb" etq Avbte kwS-, mgw bZb Dw™cetbi mdj Zv
m®uv` K	c®e® gZB ej tZ n®"Q tj Lvi ®v Zv c®vi wegj Dw™c neAvbx®` i K_v tKv_vq thb Avgut` i tj Lvi e®cv®i AvM®ni NvUvZ t_®K hv"Q f®el ®Z Dw™c m®u®K®m® fvebv, tj v d®U®q ®Zv j vi Rb" GB Dw™c evZ®Avi mgx n®e mK®j i mn®hvMZvq
Dct® óv c®i l`	প্রকাশনার সাথে সংশ্লিষ্ট সরাইকে কমিটির পক্ষ t_®K ab®ev` hv® tKv b AmsMvZ ev f®j n®q _®K, tm f®j i `vq Avgvi Avi f®j vj vMvUKz mK®j i, c®vkv iBj f®j _vKvi, f®j i vLvi
Aa®vK W. bvRgj Avj g KZ® evsj vt` k tevUwbKvj tmvmvBwU Kv®j q, Dw™c neAvb nef®M, XvKv wek®e® vj q t_®K c®KwKZ	
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n®me K®pUDv i m®G® w®Us 62/1 cjv®v c®b, XvKv-1000 E-mail: hasibprinting@gmail.com Cell: 01552388130, 01612388130	
gj "t 20.00 (ৱেক) UvKv gvI	

mvPc†

nvieyj tgWlWmtb DwM‡ i Ae`vb I
fieL †Zi -r- †mev
W. mibuiR`v gjeukkvi v

eU-cuKjoi wetqi mt_
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W. wgnini j yj mnvn

Avgte® K c×vZtZ tiM cÖKvi I
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cniPZ †fir DwM‡ i eenvi
W. AgZ Kgvi mi Kvi

vecbaeüq e¶ cÖwZ msi ¶‡Y - PÆMög
wekple` vj q K vñvñm
W. tgvnvñs Kgvyj tñvñvBb

fAvi tiM I Zvi cÖKvi
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tRtbWt. i Km I mœcWmBb
tgvnvñs vñvñl K nvmvb

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mvK@K¶v mdi -2018
W. Avej nmnb Ut- dtüUi e¶ cÖvb
evsj vñk GKvñvñg Ae GmKvj Pvi
KZK tMñi tgtWj cÖß

DwM‡ evZ@ Rb" tj Lv

DwM‡ mœúKZ th tKvb weLq wfWÉK vbeÜ,
Lei, Z_-, DwM‡ msMö, kbv³Ki Y, msi ¶Y,
AbjnÜb, vK¶vgj K ågY, Awé-vi BZ"v
tj Lv DwM‡ evZ@ cÖkvK Kiv nq|

8 tj Lv KvM‡Ri GK cÖvq myúófvte gw`Z
n‡Z nte| Zte B-tgBj, wñW ev tcbWBtfi
gva"tg cvVtivi tj Lv AMöaKvi cvte|
cvÜyj wç cvVtivi mgq Aek"b Kvc t‡L
cvVtib| AgtbvbxZ tj Lv tdiZ cvVtib nq
bv| tj Lvi gvbB evZ@ cÖkvki gvb`Ü Ges
G e"vcvti mœú`K gÜj xi imxvSB PvñS+
12 tj Lv cvVtivi ci `yJ msLv cÖkvKZ nI qvi
ci I Qcv bv ntj AgtbvbxZ ntqtQ ejj ati
vbtZ nte|

22 tj Lvi Rb" mœgbx t`qv nq bv|
DwM‡ evZ@ cÖkvKZ tj Lv gZvgZ
mœúYFvte tj L‡Ki| mœú`KgÜj x ev
tñvñvBñi gZvgZ bq|

DwM‡ evZvP MñK tñvb

eQti `Bñi msLv evZvPcÖkvKZ nq|

Pv` v cvVtivi vKvbd

mœú`K, DwM‡ evZvP
evsj vñk tevUnbKvij tñvñvBñi Kvñq,
DwM‡ weÁvb wefwm, XvKv wekple` vj q,
XvKv-1000

cÖß msLv DwM‡ evZ@ gj" 20.00 UvKv

nvi ejj tgWwmtb DwM` i Ae` wb I fivel tZi -v- tmev

W. mvbR` v geykkiv

Aa'vCK, DwM` weÁvb wefWM, Rvnvxi bMi wekhe` ejj q, mvfvi, XvKv-1342

gnwejt k GB cll ex bvgK M mpo i Av` ntZ DwM` i wRi BwZnvm cvl qv hvq | chqutg
cWYkj tK Zt` i mKj tgWij K Pwn` v ci tY DwM` i wRi Dci wbfpkj nZ t` Lv hvq | cne
M Avj -Ki Avtb gvbj Qrov Avi hZ mst jieere uLAvtQ Zvi gta DwM` i DwM` RvZ e`i
Avak` j P Yxq | Avj -Ki Avtb mefgiU 144U mijvi gta 57 U mijvi 242 U AvqftZB
cZ`l ev cti vPfvt dj -dmj , km` vbv, eP-i wR, kvgj tP, D` vb I ci tejki bvbv
eYb I Dcgv GtmtQ, KLbI wb` kbfjc KLbI wbqgZ I Jla mmvte, KLbI aYsmhA
iftc gvbj tK mPZb KitZ Avevi KLbI ev Zj bv w` tZ (tj Ltki wbR` chfePb) | cll exi
cPxbZg agM` tte` O Gi wefbaetU cPi Jlwa DwM` i weei b cvl qv hvq, th tji v Kvij i
AvetZ` AftbKvsk Avgft` i t` kxq ms` Zi Ask ntq DtvQ | Avgft` i t` tk cPi Z wefbae
c`r` cPb, Lbvi ePb cPwZtZ cPi Jlwa DwM` i bvg I G` i eenvi m`utK` avi Yv
t` l qui tPov Kviv ntqQ | cll exi cPxbZg PwKrmv weÁvb OAvqte` O Gi BwZnvm chqj vPbvq
Rvbv hvq, cll extZ gvbj i AvMgbKv jxb mgq ntZ bvbv ai`bi tiM tkvK I e`mai AvMgb
ntZ _Ktj , tm tji v Dcktg gvbj DwM` i DciB wbfp Kiz| PwKrmv weÁvb cPxbZg
M`ij i Ab`Zg Kvq PwKrmv M`OPiK msZnZvqO 341 U DwM` i DwM` RvZ `te`i Ges
kj ZWSK এছ সুক্ষ্মত সংহিতায ৩৯৫ টি ঔষধি গাছের উল্লেL cvl qv hvq | Gfvte Avkividj
gvLj KvZ ev AgtZi mshib GB gube RvZi jg weKvki mKj -t` i ci tZ ci tZ fngKv tifL
hvQ GB DwM` Avi DwM` msjuvS Ávb A_P DwM` weÁvb |

Av` gKvij hLb gvbj Ni evatZ tkLwb, Ab`vb` cll exi m`_ etb RvZtj N`i N`i etP`i gj-
KvU, j Zv-cvZv, dj -dj , im-KI t`tK Lv` i Pwn` v tgUvZv Avi GB etP`iB Wtj -Kvji
Avk` wbZ ZLbI tiM tkvK Avtk cvtk Rbftbv DwM` i tkko, evKj , j Zv-cvZv cPwZ
tmeb Ktj tiM Dcktg i tPov Kiz| Gfvte Kviv Kviv DcKvi ntZv, Avevi AftbKib PwZ
ntZv | hv` i DcKvi ntZv, Zviv cieZxZ H mKj mgm`vq wbRt` i DcKvi cOB DwM` tmeb
Ab`t` i cingkWZ| GfvteB gvbj Zvi PwKrmv cQgvRt` i eenvi wklZ t` i Ktj | Ges
wefbae Jlwa DwM` PwYZ Ktj Zvi eenvi wj wce x Ktj ivLZ t` i Ktj | ZLbKvi w` t`
hviv G, t` j v tekx PP`Kiz, Zt` i wbKU wefbaetim e`matZ AvjuvSh cingkWZ| GfvteB
GKwU PwKrmK tMwok Mto DVtZ _vK, hviv eskci wuiq gvbj i PwKrmv Ktg` wbqWZ

_vKZ, Avi Zv` i JItai cwb Drm wQj DwMC | GLbI cwnro emevmKvix Aw`g RbtMvôx
Zv` i wPwKrmq GB HwZn` ati tiLQj UBevj tgWmb bvg AtbK bZb bZb DwMC` i
JItai eenvi Avgiv Zv` i KvQ wKLZ cwiQ| wetk^Awe`Z cPxbZg wPwKrmv weAvb-
Avgte®, BDbvbx, PvBbR wJ.wm.Gg, cFwZ wPwKrmv cxiZi JItai Ab`Zg Drm wnmvte
DwMC` i gj, KvU, cvZv, dj, dj, Awv cFwZ eenvi Kv nZv| mf`Zvi µg weKutki avivq
Avb weAvtbi Ab vb kvLiq Dba`bi cvkvck bZb bZb wPwKrmv cxiZi AweF® NtU|

eZgvtb mviv wetk^euj cPwj Z Gtj vcw_K wPwKrmv cxiZi JItai AtbK Drml DwMC nZ
cB wefbegj Kv tqWm, wBtKrmvBW, dtfvbtqWm, UniwcbtqWm, tOij, tdbuj Km, D0vqx
tzj cFwZ | Ebk kZtKi wPwKrmv cxiZ tnwglcwi_0 JItai Ab`Zg emr Drm nji v DwMC |
GQrov mwzvZK wetk^ eû mf` t`k euj eeuZ nvieyj tgWmb Gi Drml DwMC |
AvabK Gtj vcw_K wPwKrmq eeuZ JItai mft cPxb wPwKrmv cxiZ Avgte®, BDbvbxZ
eeuZ JItai gj cv_R nji; Gtj vcw_K JIta µW WMMm t_k KvhRix Dcv`vb Avj v`v
Kivi gva`tg i agw` GKVU KvhRix Dcv`vb w`tq JItai wefbetWtRR dig-wmivc, Uvetj U,
Kvcmj, BbtRKkb cFwZ ^Zix Kti wPwKrmq eenvi Kv nq| µW WMMm Gi GKK
imwqibK Dcv`vb JIta e`bar kora, sanchio WMMm G we`gzb ei` t`lq Ab`vb imwqibK
Dcv`vb (hv cikewZmuqv `ix Kitb mnwqk) Gtj vcw_K JIta bv _vKvq G mKj JIta
cikewZmuqv we`gzb | tKvb GKK imwqibK Dcv`vb eenvi bv Kti eis mwuY®µW WMMm
wtq Zv nZ JItai wefbetWtRR dig-wmivc, Uvetj U, Kvcmj, BbtRKkb cFwZ ^Zix
Kti Avgte® K | BDbvbx wPwKrmq eenvi Kv nq| ZvB GB mKj JIta cikewZmuqv LpB
Kg ev tbB ej tjb Ptj | AcicP nvi eyj tgWmb nji v GB µW WMMm mgm t_k Gif
wCYcvj (KvhRix Dcv`vb) mgm th mKj wgwq (B_vbj, wg_vbj, tnKb, cFwZ) mte®P
gv`vq `exfZ nq, tmB mKj wgwq eenvi Kti KvhRix Dcv`vb mgmtK mjj W di`tg ifvsi
Kti JItai wefbetWtRR dig Abjhvqx wPwKrmv Kvh®eenvi Kv nq| G mKj JIta
GKwaK KvhRix Dcv`vb we`gzb _vKvq Gt`i l cikewZmuqv Zj bvgj K Kg| Ab`v`tK
tnwgl cwi_K tgWmb nO, µW WMMm Gi mP PvK w`tq cwi gzb gv`vq, mgq | cxiZtZ
B_vbj `exfZ Kti B_vbj mn mP gv`vq (Wbj kb ev gv`vjsPvi dig) wefbetivtM
tivM`i wPwKrmq eenvi Kv nq| G mKj JItai GKwaK KvhRix Dcv`vb we`gzb _vKvq
Gt`i cikewZmuqv Zj bvgj K Kg| Zvnj t`Lv hv`O, mKj tPfT mKj wPwKrmv cxiZtZB
tivM Dcktg JItai Ab`Zg Drm DwMC | ZvB v`m`i Ae`vb ebDvZxZ |

Avgit K **WPKrmv** weÁvtb eú cÖpbKij ntZ -t m, Ké, Ky_, wng I dvÈ; GB cÅea ditg DwMC tK JIaijt eenvtii cxZ euj cÖpj Z | Mög evsj vi cÖq Awakusk cwi evti cÖwgK **WPKrmvq GLbl** Dctiv³ dig ,tj v eenvi Kti tiM Dcktggi tPov AevnZ itqto| thgb tKv_l tKtU tMtj `eñ i m, KPj Km (-t m) ARp Quj evUv, Av`vevUv (Ké) cÖwZ eenvi Kiv ntq _vtK i³ti vaK mmute| Mj vev_v, mw²KwK cÖwZ Dcktg evmK, Zj mx, ev Av`vi im (-t m) tmeb Avgit` i HwZtniB -yik GQrov Av`v, tZRcvZv, `vi Pib, j e½ w tq ^Zix Pv (Ky_) Gi DcKwZv cÖq mevi B Rvbv| tcUi bvbv mgm`v I tKsóKwVtb` w dj v wfRvb cwb (wng) tmeb, AtbtKib Afvimi Ask| AwZi³ ,i "cvK Lv" Mötb mó A -t -t K gy³ tcZ AtbtKB GKUzMi g cwbZ tj ey thwqvb ev cij bv cvZv wfRtb (dvÈ) tmetb -t -j v Kti b| Gfvte cÖzbqZ Avgit` i ÁvZ ev AÁvtZ Avgiv tiM Dcktg DwMC` i eenvi Kti _wK hv Kvi I cÖp A -wKvi Kivi Dcvq tbB|

Avgiv Rvb, Aw`gKvij i gvbj i Kg¶gZv I tiM cÖziva e-e`v fvj wq weavq mntr tivMwvS-nzv bv| Kvij i AveZmfZv weKvki avivq Lv` km` Drcv`b cÖp epx tctqtQ wKB wKs` bMz gvb ati ivLv m¤e nqib| ZvB gvbj i Kg¶gZv I tiM cÖziva ¶gZv Ktg tMtQ| GQrov Avenvlqv I Rj evqj evcK cweZb tiM ewai nvi epx tctqtQ AtbKvsk| G, t j v QrovI wekewc euj cÖpj Z Gtj vcw_K **WPKrmvq** eenvi Kw¹g ivmvqwbK JIjai bvbv cwkZvq| Aceenvtj mó RvUj Zvq gvbj i -t- my ¶v w b w b Kvib ntq ctotQ| GB **WPKrmvq** tiM wbYq e-e`v tek eqeuj nlqiq Avgit` i gZ AtbK Dbqbkj t`tk gvbj **WPKrmv** e-e`v tgUvtZ Mtb axti axti wb: -t-ntq cotQ| Dbz wek^GB weq, t j v Abjeb Ki tZ tcti Zviv Averi cÖKwZ JIa eenvtj Drmvnx nlqiq DwMC wbq Mtel bv Kti bZb bZb nvi ej tgwmb evRvti Avbto Ges gvbj G, t j v eenvi Kti tiM cÖziva I cÖzKvti dj ch-mjdj cutQ|

evsj vt` k wekt Ab`Zg cÖKwZK m¤ut` ficij NbemwZ cY©GKwU m¤ebvgq t`k| Gt`tk tfIR DwMC` i chB cÖphZv itqto| ZvB tfIR JIa Drcv`b I **WPKrmvq** Gi eenvi epxi m¤ebvL cÖp | eZvutb evsj vt` tk wekuj RbtMvoki **WPKrmv** e-e`v cÖq cÖvci Gtj vcw_K **WPKrmv** wbfp| GB **WPKrmv** e-e`v q tiM wbYq t`tk i" Kti tiM Dckg, cÖziva meUvB cÖp eqeuj, hv Avgit` i gZ `w`^, Dbqbkj t`tki RbtMvobi Rb` enb Kiv Am¤e| mi Kvi tmev` vbi j tP` t`tki wefbæ-#i i th mKj -t-`tmev cÖzbv `vcb Kti tQ, Zv t`tki tgwU RbtMvoki ¶i² AskK tmev` vbi m¶g| Gtj vcw_K **WPKrmv** gZ eqeuj GKK **WPKrmv** cxiZ w tq evsj vt`ki gZ Rbeuj `w`^ t`tk gvbj i Ab`Zg tgšij K Awakvi -t-`tmev

eZgrib evsj vt' tk weifbæbb KingDibKej tiM thgb: tg`w-Zv (I teimU), D"Pi³Pic,
ü`tiM, WqteUUm, Av_BiUm, t÷IK, Kvbmvri cflZi cōfle thgb evcKnvi evoQ,
tZgib mi Kvi GKK PPKrmv c×Z w tq G,tj v tgvKwej vq wngimg Lv"Q| w b w b t' tk
GmKj tiM Mi tiMx I nvmcvZvj msL v epx cv"Q| em:ek^ GmKj tiM cōZKvi I
cōZtiita AvgteP K, BDvbx Z_v tuWkbuj PPKrmv c×Z I nvi ej tgWmtbi eenvi
evCK epx tcqtQ| Avgt i t' tkI GB mKj bb KingDibKej tiMmgm cōZKvi I
cōZtiita AtbK GKK I thšMK tfIR JIa tek KvhRix I ,i"ZcYcfngKv ivLtz cti |
BtZgta" Dbz netk t b vq evsj vt' tkI BDtivc, Avgwi Kv, Atoj qv mn bvb t' k ntZ nvi ej
tgWmtbi cvkvcm Gi KvPgyj Avg`wb Kti t' kxq tek KQz cōZnōZ Gtj vc"K JIa
Drcv` bKvi cōZob (-qvi, GKng. BbtmPv, tiWtqE, WM BĒv: cflZ) nvi ej JIa
Drcv` b, evRvi RvZKib I iBvbx Ki tQ, hv evsj vt' tkI Rb" Avgxev[®] nmte t' Lv w t"Q|

AWgtZ GB Jla,tjvi Pwn`v wb wb evotZ _ktj , ati ati Agyt`i t`kq tfIR
mu eentii i gvatg bZb bZb cZob bZb bZb cY` bq evRv*t* AnefZ nte| GtZ
Kti MtgUm kti i gZ Jlakti i chvi NUte| fwe*t*Z nvi ej tgWmb bq covi bv Kiv
tj vKej mn mKj tkoxi tj vKi evcK Kgms^vb moi mtebv ^Zix nte| GRb` h_vh_
KZeti AvMh, my o I h_vh_ ci Ki bv cYqtbi Avi cqRb|

Lr ``kI ``Drcv`b cluqq ``Re ch³ cqM Ges mi Kvix ``r`` ee ``q GKK PKrmv cxiZi
cfve Kigq, cPxb | t`kq PKrmv ee ``mgn Asf³ i gvatg, mgsZ PKrmv ee ``cbv
KWtgv Mto Ztj , wekvj clSK `wi ``RbtMoxi ``r`` tmev blZ mn Gi gvb Dbotb h_vh_
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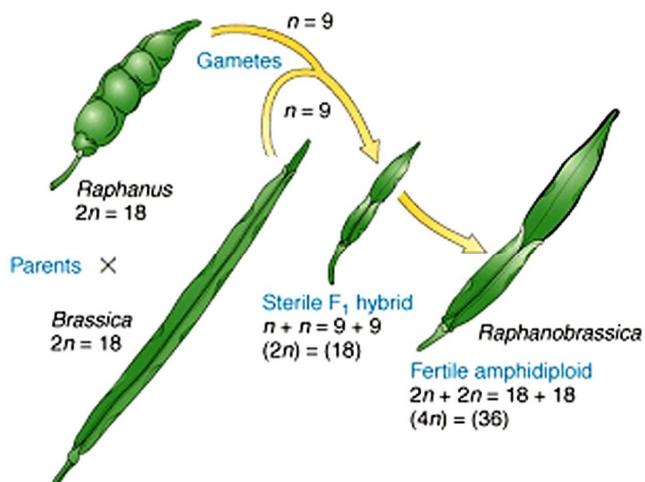
W. vgnj i j yj mnv

Aa"vcK, Dw"m" weÁvb weFvM, XvKv wekje`"yj q

evsj vt` tk i eúj cPwi Z % ÁbK cW Kv Óc_g Avtj vbi Rvbgyi 02, 2019 Gi msL"q tj LK
ÓAve` j tgwgbó Gi ÓhMj e` x eU-cvKpÓ wkti vbtgi tj LwU AvgitK AvKó Kti tQ| tmB
AvKlP Y gwibKMfÄi wNI i DctRj vi ewj qtLvor BDwbqtb i KvDwUqv Mrtg thZ gb PvBtj |
tj Lvi ZwM` Uv teva Kwi GKUy teuk| ZwBtZv ágtYi cweitZ"yj LtZ etm tmj vg| tj Lvi
i i"tZB KZÁZv cKvk KiQ ÓhMj e` x eU-cvKpÓ tj LwUi tj LK Rbve Avaj tgwgtbi
ciZ| tj LwU Awg gb w tq ctowQ| cotZ cotZ Awg thb Avgvi wekje`"yj tqi QvRxe tb
wdti tmj vg| gtb cto tmj Avgvi Ab"Zg wcpq wKPK ÓAa"vcK Avntg` kvgmj Bmj vgð-Gi
cW` vtbi K_v| tmB cvV` vtbi mvf_ Ave` j tgwgtbi tj Lvi thwMm" LjR t` Lv|

tmB thwMm" LjRtZ Avgvi wekje`"yj tqi QvRxe tb i GKUy - wZPvi Y Ki tZ eC Bt"Q Ki tQ|
Awg ZLb m"ib 3q e"l P শিক্ষার্থী। আহমেদ শামসুল ইসলাম স্যার আমাদের প্ল্যান্ট ব্রিডিং বা
m"Rbb we`"v covtZb| Avgvi tj Lvi cWK teukifvMB Dw"m" weÁvtbi wKPl_Pntj | weWv ev
m"Rbb we`"v m"tÜ wKQy GKUv avi গা দিতে চাই। প্ল্যান্ট ব্রিডিং হলো উন্নিদিবিজ্ঞানের একটি
c"qMK weIq thLvtb gvtj i Kj vtY ev Pw"v Abh"vqz dmij Dw"m" i Db"Z %ek"o" wek"o
RvZ D"t"eb ev %ek"o" i cweZ" Kiv wbtq Avtj vPbv | MteI Yv Kiv nq| A_P cKwZK dmj
ntZ % ÁbK c"ZtZ Db"Z %ek"o" i Dw"m" প্রকরণ উন্নৰণ প্রক্রিয়াকেই বলে প্ল্যান্ট ব্রিডিং।
mvavi YZ Dw"m" wePb Ges msKivqtb i gva"tg Db"Z %ek"o"m"ub"eDw"m" cKiY D"t"eb Kiv
ntq _vtK| `JU we"m" k wePZ Dw"m" i gta" K" gfvt"e ci wvqb NwUvtbvi c"qvtKB ej v nq
msKivqzb| msKivqtb i gva"tg mo Dw"m" tK ej v nq msKi Dw"m" | GLvtb ej i Lv fv"j v th
c"KwZKfv"el GgbwU NUtZ cv"i | thgb Awg Avgiv %ek"o" t"tLwQ Kj tgi gva"tg UKeoB
M"tQ i Dci Kj eoB M"tQ i Kj g j wM"tq Kj eoB M"Q %Zw KtZ| Gai"bi D"t"eb AvgitK
LjB AvKó Kiz| hw"i GiU msKivqb c"ZtZ bq Zej tK"Zn"tj i K"r"n"e"t" উল্লেখ করলাম।
ইসলাম স্যারের পাঠদানের কৌশলগুলো আমাকে বড়ই আকৃষ্ট করত। প্ল্যান্ট ব্রিডিং-Gi GKU Kt"m
K" g msKivqb c"ZtZ vtbi mgq wek"o weÁvbx Kv"tC"mt"v"i D"t"eb wbtq GKUv wZ" Mí
etj wQ"tj b| AvR tmB Mí w"tq eU-cvKjoi wetqi M"t"i i thwMm" Z"tj aie| tmB thwMm"
Avtj vPbv KtZ M"tq "bvgab" weÁvbx Kv"tC"mt"v" Ges Z"i D"t"eb wbtq GKUy Avtj vPbv Kiv
` i Kvi |

ৰে আবৰ্ক কৃত্তি মিলি চৰি বৰ্গ নঁজি এবং কৃত্তি মিলি (G. D. Karpechenko) | ১৮৯৯
মুক্তি এ শ্ৰেণি ইনকাৰ কৰি দেখিব। কৃত্তি মিলি কৃত্তি মিলি কৃত্তি মিলি কৃত্তি মিলি
কেজন জীববিজ্ঞানী। পৰাৰতীতে তাঁৰ গবেষণাৰ বিষয় ছিল কোষবিদ্যা এবং সুপ্রজননবিদ্যা বা প্লান্ট
বিজ্ঞান। এই গবেষণাৰ মাধ্যমে প্লান্ট ব্ৰিডিং-G Amvgvb Ae'vb tifL tMfQb |
Avgvi tj LbftZ ZvifK kiffti -si Y KiQ | ১৮৯৯ msKi vqftbi gva'tg tek KQymsKi DwfMf i
mwo Kti Qfj b | Zvi gta' AbefP i vdfbvermKv (Raphano brassica) msKi DwfMf i
Dwfleb Kti DwfMf we Ávbx` i gftS ১৮৯৯ Ane' si Yxq nftq AvfQb | tmb msKi DwfMf i Dwfleb
wbftq KQy wj LfZ tMfj B DwfMf we fvtMi Avgvi wca' K Aa'icK Avntg` kvgmij
Bmj vg mif i K_v gনে পড়ে যায়। প্লান্ট ব্ৰিডিং এৰ ক্লাসে তিনিই আমাদেৱকে এই উদ্ঘাবনেৰ কথা
c'g i wbftq Qfj b | msKi vqftbi K_v IPSh Kfj B we Ávbx Ktfcfmi'l wftkl GKai'fbi msKi
DwfMf mwo IPSh Kfj Qfj b | IPShfvebwJ Ggb wQj th gj v Ges evavKwci msKi vqftbi gva'tg
hw` Ggb tKvfbw DwfMf cvl qv hwq hv t_fK gj v Ges evavKwci -r ev , bwevj GKB mif
cvl qv hwte! fKb Ggb IPShfvebv Zvi e'LwJ nftj v, Avgiv gj v MftQi gj Avi evavKwci cvZv
tLfq _wK | GB `ju MftQi msKi vqftbi dftj hw` Ggb msKi DwfMf cvl qv hwq hvi cvZv Ges
gj DfqB Lvi qv hwte! Zvi tmb fvebvi Ab'Zg Dif'icK wntmte wftj b weikó Wwlok
tKvI we Ávbx At'Av wftA (Otto Winge)। অট্টো ভিঙ্গেৰ ধাৰণা হয়েছিল প্ৰকৃতিতে পলিপ্লায়েড DwfMf
প্ৰজাতিৰ সৃষ্টি হয়। হঠাৎ কৰে আলোচনাৰ মধ্যে পলিপ্লায়েড চলে এল তাই পলিপ্লায়েড কী তাঁৰ একটু
e'vL'v t' qv` i Kvi |



WPT: we Ávbx Kvtc fnt- vi msKivqftbi gva tg i hvdvfbve mKv (*Raphanobrassica*) D™teb |

উচ্চতর জীব (উদ্ভিদ বা প্রাণী) সাধারণত ডিপ্লয়েড অর্থাৎ দৈহিক কোষে দুই সেট ($2n=2x$) ক্রোমোজোম থাকে। দুই সেটের অধিক ক্রোমোজোম থাকলে তাকে পলিপ্লয়েড উদ্ভিদ বলে যেমন *avb* ডিপ্লয়েড (*Oryza sativa*, $2n=2x=24$) $DW^{M\ddot{C}}$, *Abw* \ddot{K} *Kj* (Musa sp., $2n=3x=33$) ট্রিপ্লয়েড উদ্ভিদ। অটো ভিজের প্রাকৃতিকভাবে সৃষ্টি পলিপ্লয়েডের ধারণা $\ddot{t}_\ddot{K}KB$ $K\ddot{t}C\ddot{m}\ddot{t}\ddot{v}gj$ (*Raphanus sativus*, $2n=18rr$) *Ges evavKuci* (*Brassica oleracea*, $2n=18$, cc) *msKi* *vqb* $\ddot{P}S\ddot{H}fvebv$ *Kt* *i* *Q* *tj* *b* | *GB* ` \ddot{U} $DW^{M\ddot{C}}$ *B* *Avevi* $\ddot{b}p\ddot{y}m\ddot{t}d\ddot{v}\ddot{v}$ *cvi* *evi* *f* β *meiR* *RvZxq* *dmij* $DW^{M\ddot{C}}$ | *Dfq cRwZi* $DW^{M\ddot{C}}$ *i* $\ddot{t}p\ddot{v}t\ddot{g}v\ddot{t}Rvg$ *msL* \ddot{v} *Qj* ($2n=18$) | $\ddot{t}mKv$ $\ddot{t}Y$ *msKi* $DW^{M\ddot{C}}$ *cvi* *qv* *Lp* *tevk* *Kw* *b* *n* *tebv* *etj* *w* *Avbx* *Kt* *C* *m* *t* *v* *vi* *avi* *Y* *n* *q* *Qj* | $\ddot{t}mmg\ddot{t}q$ *i* ` \ddot{w} *o* *Z* *w* *Kbv* *A* $T^M\ddot{C}$ *fvebv* *etj* *g* *t* *b* *n* *o* *Z* *c* *v* *i* *Kt* *C* *m* *t* *v* *Zv* *w* *e* *k* *t* *m* *AUj* $\ddot{t}_\ddot{K}$ *D* 3 ` \ddot{U} $DW^{M\ddot{C}}$ *i* *gta* *Kw* *g* *f* *v* *t* *e* *msKi* *vqb* *N* *U* *q* *Qj* *b* *Ges* *mdj* *f* *v* *t* *e* *msKi* $DW^{M\ddot{C}}$ | *tctq* *Q* *tj* *b* | *c* *v* *B* *F1* *msKi* $DW^{M\ddot{C}}$ *W* ($2n=18$, rc) *eÜv* *msKi* $DW^{M\ddot{C}}$ *Qj*, *thL* *t* *b* *eskMwZ* *w* *vi* *RbK* *tgt* *Ütj* *i* *eskMwZ* *i* *wbqgvbjm* *t* *B* *gj* *v* $\ddot{t}_\ddot{K}$ *9* *U* (*r* *t* *m* *U*) $\ddot{t}p\ddot{v}t\ddot{g}v\ddot{t}Rvg$ *Ges evavKuci* $\ddot{t}_\ddot{K}$ *9* *U* (*c* *t* *m* *U*) $\ddot{t}p\ddot{v}t\ddot{g}v\ddot{t}Rvg$ এসেছে। বন্ধ্যা ডিপ্লয়েড হওয়ায় উর্বর *msKi* *%Z* *w* *j* *t* *g* *F1* *msKi* $DW^{M\ddot{C}}$ *t* *Kvj* *PIPb* *bvgK* অ্যালকালয়েড প্রয়োগ করা হয়। কোলচিচিন মাইটোসিস কোষ বিভাজনের সময় কোষ প্লেট সৃষ্টিতে *evav* $\ddot{t}_\ddot{q}$ *d* *tj* *wefw* *RZ* $\ddot{t}p\ddot{v}t\ddot{g}v\ddot{t}Rvg$ *GKB* *t* *Kv* *t* *i* *gta* *v* *t* *q* *hvq* | *d* *tj* *AcZ* *t* *Kv* *t* *g* *p* *t* *g* *v* *t* *g* *Rvg* *msL* \ddot{v} *gvZ* *t* *Kv* *t* *i* $\ddot{t}p\ddot{v}t\ddot{g}v\ddot{t}Rvg$ *msL* \ddot{v} *i* *tP* *tq* *W* *Y* *n* *q* *hvq* | *GB* *c* *v* *q* *vi* *gva* *t* *g* কৃত্রিমভাবে প্রাকৃতিক ডিপ্লয়েড উদ্ভিদ থেকে পলিপ্লয়েড উদ্ভিদের সৃষ্টি করা হয়। এভাবেই *Kt* *C* *m* *t* *v* *Z* *w* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b* *mdj* *Zv* *i* *mv* *_msKi* $DW^{M\ddot{C}}$ *w* *KB* *tctq* *Q* *tj* *b* | *c* *v* *B* *i* *vdv* *t* *bv* *wmKv* *Raphano brassica* | *th* *g* *L* *D* *t* *i* *t* *K* *w* *Z* *b* *gj* *v* *Ges evavKuci* *gta* *msKi* *vqb* *Kt* *i* *Q* *tj* *b* | *tm* *D* *t* *i* *K* *w* *mdj* *bv* *n* *tj* | *wZ* *b</*

exvi tμvfgvRvg m¤tÜ tKvfbv aviYv teva Kvi wQj bv| weÁvtbi aviYv bv _vKtj | Zvi wPš-vfvebv wQj weÁvbmoZ | tmKvi fYB nqfZv GKB MYfyp DwM` i gta cKwZKfvte msKivqfbi GKwJ cwi tek mwó Kivi j fP`B eU | cvKp Mw0tK cvkvcmk tiL cwi Phm DfikB wQj GK MwQi djj i ciMti YyAb MwQi djj wMq ciMvqb NwUq msKi DwM` mwó Kiv| Gi mctP weikó Wwbk tKvI weÁbx AtEv wfÄ tRvo w tqB ejj tQb th cKwZtZ cKwZK msKivqfbi gva tg bZp bZp পলিষ্ঠয়েড DwM` i mwó nq| Avgvi AvRtKi tj Lv wKs' GB eU-cvKjoi wefqfKB tK ` Ktj | Aov` k kZvaxi ga fvM gwgbKMtÄi tmB m¤ybxq exv কিন্তু প্লান্ট ব্রিডার ছিলেন না, তবে তাঁর ভাবনাটি ছিল প্রকৃত ctP প্লান্ট ব্রিডার-Gi gZB | cvVtKiv wbDqB Avgvi mw_ GKgZ nteb th exvi tmB wPšvfvebv cLvvZ iwkqv b weÁbx Kvfcmtvvi gZ bq wK? A_ Gt` tkIB cZS-GK Mg` bvxi wPšvfvebv eZ@vb weÁvb RMtZi GKRb পরিণত প্লান্ট ব্রিডার মতই ছিল। আমার এই লেখার মাধ্যমে আল্লিK Awfb` b Rvbv vg tmB exvK | tmB mw_ ab`ev` RvbvB Ave`j tgwgbtK % wbK cWtKv 0c_g Avtj wq cKwKZ Zvi ØhMj e`x eU-cvKpØ cefUi Rb | th tj Lvi gta Avg LjR tctqjQ Aov` k kZvaxi ga fvM Gt` tkIB GK exvi msKivqfbi wPšvfvebvi K_v| Dbz wefkj ZLb Ggb wPšvfvebv wQj wK bv Avgvi Rvbv tbB | Z_vbjnÜvzb nqfZv GiKg Avi | AtbK Z_ Avgut` i gvtS Dc`wcz nte Ggb wekjm tiL AvRtKi tj Lv GLvbbB tkI KivQ |

Avgje@K c×WtZ tiM cÖKvi I cÖtivta Avgbvi mtpZbZv
Ges AwZ cwiPZ tfIR Dwt` i eenvi

Ww: AgZ Kgvi mi Kvi

we.G.Gg.Gm (Xv.we.), we.GBP.wW. (-j vi) Rv.we.

cFvIK (dvgm GD dvgmDvUK), mi Kvix BDvbx | AvqteP K tgWtKj Ktj R | nmcvZvj
ngicj-13, XvKv-1221

Avcbvi ” Avcbvi B nvtZ, GKUz mPZbZvq Avcbv _vKtZ cvtib vtivM, my⁻ I mvej xj | AftbKi KvQB K_vUv Aev⁻e gtb ntZ cvt, vKs' cWK GKUz fvejp tZv tKvb KviY Qrov Avcbvi Avtk cvtk, Avcbvi cwi evi, mgvR, t`k ev cwi exZ tKvb vKQy vK NtU? NtUbv | A_F th tKvb NUbvi wC0tbB tKvb bv tKvb KviY_vtK, tivM e^wai Gi e^vZpug bq| th tKvb tivM Avgut` i t`n gtb evmv evavi wC0tbI itqt0 mybow @ KviY | Avgiv mvavib Rb teiki fM tPfB wfbaefbaetivMi wfbaefbaekvib m^utK^AeMZ bv _vKvq, Avgut` i c^Z^inK KgRv^U Zvi c^Zdj tb e^_Zvi KviY tivMv^vS-ntq cwo| GKUz tLqj Kitj A_F vtRi kixi | gtbci c^Z GKUz gtbvthM w^tj AtbK tPfB tivMi KviY, tj v Avgiv Abfe KitZ civie | vKfute, GKUz e^vL^v Kitj B v^lqj cwi^vi ntq hute| cwiexi c^PxbZg vPvKrmv^Avb ntj v Avgute^, hv GB Dcgnut`tki vtR^-^mjo| Bnv Avgut` i Mte^ | AnsKv^i i vPvKrmv cxiZ | GB vPvKrmv^Avb Gi AtbK vtqgKvb GLbI tRtb bv tRtb cvj b Kti Pij, KviY G, tj v Avengvb Kvj t_k K Avgut` i ev^v^v Kvj, H^Zn⁻ I ms^vZi mvt_ vgtj vgtk GKvKvi ntq tM^Q| Avgut` i gj e^v^t` i vtRtb Kgrv^U vewfb^etPfB GLbI th mKj veva^KZv Avtivc Kiv nq, tm, tj vi tekxi f^MB “^” mij P^vq mnvqK| Aek⁻ Kvj i vevZ^b veva vtla, tj vi vevZi Kvi tb AtbKB G, tj vtK Kms^vi vnmvte Mb⁻ Kti |

Avgte[¶] K [¶]Krmvi A[¶]bK Z[¶]B GLb Avgt[¶] i c[¶]Z[¶]nK PPA Ask n[¶]q tM[¶]Q | Avgte[¶] K [¶]Krmv w[¶]Ávb Gi g[¶]Z Avgt[¶] i kix[¶]i 13 [¶]J [¶]W[¶]eK c[¶]K[¶]ZK teM w[¶]g[¶]v[¶]b | thgb: [¶]av, Z[¶]ov, gj, g[¶]j. n[¶]P, K[¶]k, Ng, n[¶]B[¶]Zyj v, n[¶]wm, Kv[¶]b, th[¶]b teM c[¶]W[¶]Z | GB m[¶]Kj teM kix[¶]i Dc[¶]W[¶]Z nt[¶]j m[¶]t[¶]½ m[¶]t[¶]½ avi b bv K[¶]t[¶]i thgb Zv[¶]t[¶]Z m[¶]ov t[¶] I qv DiPr, t[¶]Zg[¶]b c[¶]K[¶]ZKf[¶]t[¶]e Dc[¶]W[¶]Z bv nt[¶]j t[¶]Rvi K[¶]t[¶]i n[¶]Ri Ki[¶]t[¶]Z tbB | Gi e[¶]Zq NU[¶]j Avgt[¶] i kix[¶]i A[¶]bK t[¶]iM n[¶]q _[¶]K | [¶]B GK[¶]J D[¶]W[¶]i[¶]b e[¶]cvi [¶]J GKUz[¶]ci[¶]®i Ki[¶]t[¶]Z PvB, thgb [¶]avi teM avi b Ki[¶]j A[¶]h hLb [¶]av j v[¶]M ZLb Lvevi bv t[¶]L[¶]j, n[¶]Bcv[¶]i G[¶]m[¶]W[¶]J, e[¶]K R[¶]j v (B[¶]tmd[¶]W[¶]MB[¶]Um), t[¶]cc[¶]UK Av[¶]j m[¶]i,

cFZ tivM thgb ntq _vK, Averi teM bv AvmtZ ZvZ mrov w`tj (A_ř Plav bv _vKtj I Lveri tLtj) evg, Wwqwi qv, Avgvkq, e`nRg, Ai "Px, AwMgv`" (Plavg`"), cFZ bvbwea tivM ntZ cvti | Averi gj teM avib Kitj tKvóKwlb, Ak© Gbyj wdmv, fM` i (id÷j v) mn AtbK RvUj tivM mjo nI qvi mædebv teeto hvq| Ggb Kti cÖZU kwiixK teMavi tb `xNf tbi PPq AtbK tQvU eo RvUj tivM Avgut` i kixti evmv euva| GB mKj KzAf vtm i KvitYB Avgut` i kixti AwaKvsk tivM ntq _vK| Avi gvbwmK tivM gtb evmv euavi AvgteP K Kvib ntj v cÄciva| Ávbx tjvK tRtb ejS Abvq Kitj, GB Abvq RvbZ weetKi `skb Gi KvifY DfOM, DrKEv, `yOS, tUbkb cFZ t_tK AwaKvsk gvbwmK tivMi DrciE nq| ZvB gvbwmK tivM cÖZKvi I cÖZtiva, cÄciva mn ivM, BIP t0I, Nbv cFZ wbqštbi e`e`v KvifZ nte| GQvor my` t`n my` gb wbq `xNRxeb j vtf AvgteP i weifbe wb`Rbv, thgb: w`bPP, i w`PP, FZPP, thMvfvm, Avni envi wbqšp cFZ tgib Pj v DiPr| GB weiqMj v e`vcK Avtj vPbvi cÖqvRb, mÍcwi mti e`vLv Kwlb, cieZPZ G, tji v wbq Avtj vPbvi AwaKvslv iBj |

cIPxb AvgteP K wPKrmvcxwZtZ t`n I gtb mg`-tivMi KvifY ,tj vK wzbwU mvavi b Kvifb GKrfY Kviv ntqfQ| G, tji v ntj v AmvZBw` qv`msfhwM, cÄciva, Kvj ev cwi bvg| AmvZBw` qv`msfhwM ntj v kixti Bi`qmgtni (P¶l, KY© bwmKv, n`-c` , vj ½, thvbx cFZ) Rb` mnbxq gvvi Kg ev tekx e`envi (A_ř AwZ Kg ev AwZ tekx Avtj vZ t`Lv, AwZ Kg kā ev AwZ tekx kta`i gta` Ae`vB BZ`w` Ggb fvte Abv`b` Bw`tqi Rb` cÖhvR`)| Gi Kvifb tivM mjo nq| cÄciva wbq cteB Avtj vPbvi Kviv ntqfQ, Kvj ev cwi bvg ej tZ, FZcwieZB RvbZ cFvte mp tivM Ges weifbe` Nfbv RvbZ KvifY mp tivM mgntK eSvfbv ntqfQ| GB mKj mg`-tivM cÖZtiva I cÖZKvi i wb`Rbv AvgteP we`gvb| eZgvtb Avgut` i cÖZmK Rxetb mgutRi AwaKvsk tj vKti gta` mvavi b Rj, mw`©KwK, Gj wR©mn wKQz RvUj kmKo (nwcm), D"Pi³PvC, gaqgn (WwqteUm), MwóBwUm, Avgvkq cFZ tivMi cÖfje j ¶` Kviv hvq| GB mKj tivM cÖZtiva Avgvi ceqj vPbvi tek dj cÖnyntZ cvti | Gevi GmKj tivM cÖZKvi Avgut` i Avtk cvtki AwZ cwiPZ wKQz tfIR JIaxi e`envti gva`g mdj j vtfi Dcvq mæútK©Avtj vPbvi KitZ PvB| cVK GKUz tLqj Kti t`Lteb Avgut` i Møgi cÖq cÖZU ewotZ Kg tekx wbg, Zj mx, evmK (nwovKm), tkdvj x, MÜfv`tj , mwRbv, `eP, Rvg, tej cFZ DvM` ,tj v i tqfQ| GQvorI cÖZtKi i vbeNti Av`v, wcaqR, imþ, wRiv, hgwbx, `vivPb, je½, tZRcvZv, tMj gwiP, tgxi, tg_x cFZ i tqfQ|

G, t̄j v ēenvi Kt̄iB c̄l̄gK t̄iM mn At̄bK R̄Uj t̄iM c̄l̄ZKvi m̄e | c̄l̄gZ l̄bq̄gZ PP̄
kvi i xK c̄l̄Kl̄ZK teM mḡtni f̄v̄im̄ḡ l̄d̄wi t̄q Avb̄t̄Z n̄te Ges c̄l̄ZKt̄i Dct̄iv̄³ t̄f̄l̄R̄, t̄j v
Awf̄Af̄` i cīvḡt̄k̄ l̄bq̄ggZ ēenvi Kit̄Z n̄te |

R̄j, m̄w̄ © V̄Uv̄, n̄w̄P, K̄w̄k G t̄iM , t̄j v̄Z l̄bq̄g K̄t̄i Zj mx, Av̄v̄, `v̄i w̄Pb̄, t̄ZRcv̄Zv̄,
ev̄mK, t̄kdv̄j x dt̄j i cv̄Zv̄ c̄f̄w̄Z ēenvi K̄t̄i Dckg c̄l̄q̄ m̄e | thgb R̄t̄i i t̄P̄t̄ (FZz
^ēw̄P̄t̄ R̄ib̄Z K̄v̄t̄b̄ m̄o, hvi m̄t̄_ m̄w̄ © k̄xi ē_v̄, n̄w̄P c̄f̄w̄Z lē ``gv̄b̄) t̄kdv̄j cv̄Zvi im eqm
t̄f̄t̄` 1-4 Pv PvgP gv̄t̄v̄q GKUzMi g K̄t̄i ^ l̄bK 2-3 evi 2-3 w̄b̄ t̄met̄bB R̄j t̄_t̄K Av̄t̄iM̄
j v̄f̄ m̄e | m̄w̄ © K̄w̄k, k̄m̄K̄o c̄f̄w̄Z t̄P̄t̄ Zj mx, ev̄mK i Av̄v̄ i m eqm t̄f̄t̄` 1-4 Pv PvgP
মধুচিনি সহ সেবনে উল্লেL̄t̄hM̄ DcKvi j v̄f̄ m̄e | অস্থানে (M̄v̄oB̄UJm̄) t̄i v̄t̄M̄
(R̄i+hḡbx+fḡSi+x+Avgj K̄) c̄l̄ZK̄U mḡciw̄gv̄b̄ GK̄t̄i l̄ḡuk̄t̄q 5-10 M̄g 4 K̄v̄ c̄w̄b̄t̄Z
w̄m̄x K̄t̄i 1 K̄v̄ _v̄K̄t̄Z bw̄gt̄q t̄Q̄t̄K H J̄l̄ax K̄ȳ t̄iR̄ 2-3 evi w̄f̄³ gv̄t̄v̄q 2 m̄B̄v̄ t̄met̄b
Av̄k̄v̄c̄l̄ dj c̄l̄q̄ hv̄q, 10-12 m̄B̄v̄ t̄met̄b t̄iM̄ Av̄t̄iM̄ m̄e, Z̄t̄e Gi m̄t̄_ Av̄v̄i w̄envi
Gi l̄b̄t̄ R̄bv̄ gv̄b̄ Av̄ek̄K̄ l̄bg M̄Q Av̄giv̄ w̄Pb̄ bv G i Kg L̄e Kg t̄j v̄KB Av̄t̄Q, l̄bg t̄K
GK̄esK̄ kZw̄ai AgZ ēP̄ ej v̄nq | l̄bt̄gi gj, cv̄Zv̄, dj, dj, K̄W meB J̄l̄ax w̄nm̄te
ēeuZ nq | mKj c̄l̄K̄vi PḡP̄iM̄, `v̄, GK̄Rgv̄, Pj K̄w̄b̄t̄Z l̄bgcv̄Zvi im t̄meb i ew̄n̄K̄
ēenvi tek dj c̄l̄ | GQov̄ Uv̄Bc Uz W̄q̄t̄eUJm̄ Gi t̄P̄t̄i c̄l̄Zw̄b̄ c̄Ȳeq̄® ēw̄³ 10 w̄U K̄uPv̄
l̄bgcv̄Zv̄ 5 w̄U t̄M̄j gw̄t̄Pi m̄t̄_ mKv̄t̄j L̄w̄j t̄ct̄U (ēv̄q̄ḡ I Lv̄ `` l̄bq̄šb̄ mn) 6 m̄B̄v̄ t̄met̄b
i³K̄K̄Pv̄ l̄bq̄št̄Y Av̄t̄m̄ | m̄w̄Rbv̄ Av̄ḡt̄` i L̄eB c̄i w̄PZ i Aētn̄j Z GK̄U D̄w̄m̄c̄ | Gi cv̄Zvi
c̄j̄o, b | Qv̄j Gi J̄l̄ax, b R̄vb̄t̄j Av̄giv̄ mevB Gi K̄i Kīt̄Z īī K̄ie | m̄w̄Rbv̄ cv̄Zv̄q c̄P̄i
Ggv̄B̄t̄bv̄ Gw̄m̄W, w̄f̄Uw̄gb | L̄ib̄R DcKib̄ _v̄K̄v̄ Ḡt̄K c̄j̄o tev̄g ej v̄nq | m̄w̄Rbv̄ cv̄Zv̄t̄K̄
M̄w̄t̄ei gv̄sm̄l ej v̄nq _v̄t̄K̄ l̄bq̄gZ m̄w̄Rbv̄ cv̄Zv̄ kv̄K m̄w̄ai gZ t̄met̄b At̄bK t̄iM̄ c̄l̄t̄iva
Kiv̄ m̄e | GQov̄ m̄w̄Rbv̄ Qv̄t̄j i im D̄P̄i³ Pv̄c, ev̄Z t̄iM̄, PḡP̄iM̄ c̄f̄w̄Zt̄Z DcKvi x | m̄w̄Rbv̄
ext̄Ri ^Zj ev̄t̄Zi ē_v̄q gw̄t̄k̄ ē_v̄ Dckg nq | Pt̄j i mḡm̄v̄, m̄w̄B̄t̄bv̄m̄B̄UJm̄, m̄w̄ © c̄f̄w̄Z
t̄iM̄ w̄c̄o t̄Ri R̄j o tbB | D̄P̄ t̄K̄t̄j t̄oi j, D̄P̄i³ Pv̄c, w̄f̄baev̄Zt̄iM̄ c̄l̄ḡt̄b im̄b AZ̄S̄-
Kv̄hKix GK̄U J̄l̄ax | m̄w̄ © K̄w̄k, c̄j̄v̄Zb Av̄ḡkq, Av̄ḡv̄Z, m̄w̄q̄w̄UKv̄, t̄M̄t̄Uev̄Z c̄f̄w̄Z t̄iM̄
M̄Üf̄v̄t̄j i cv̄Zvi im w̄f̄baev̄te eqm t̄f̄t̄ gv̄t̄v̄b̄hv̄q t̄met̄b L̄eB fv̄j dj c̄l̄q̄ hv̄q |
m̄gv̄b̄ Kv̄Uv̄ t̄Qov̄ i³t̄ivaK w̄nm̄te `ēP̄ N̄t̄mi ēenvi Av̄giv̄ mevB R̄wb̄, w̄K̄š GB Av̄Z
m̄w̄av̄b̄ t̄f̄l̄R̄U th, M̄f̄m̄sμv̄S̄-At̄bK t̄ḡt̄q̄j t̄iM̄ DckgKvi K Zv̄ Av̄giv̄ K R̄t̄b R̄wb̄ |
ciKv̄ t̄et̄j i kieZ k̄ix̄ii w̄oZv̄ Av̄b̄q̄bKvi x | t̄K̄šo c̄i w̄v̄iK̄, t̄et̄j i GB , b, t̄j vi m̄t̄_

Avgiv c*ii*PZ ntj I, K*ip* tej iV th, Avgvkq, μibK Wq*ii* qv (AvB.*ie*.Gm), *ki* Wq*ii* qv
L*e*B K*hRix* GB Z_ , t*j* v Avg*t`* i Atb*t*KiB AR*v*bv|

GBf*v*tē Avg*i* Dct*i* L*f*I R mn c*Ki*Z*t*Z *w*e ``g*v*b AmsL ``f*f*I *t*Ri AM*ib*Z *b* *w*e ``g*v*b |
Avg*i* GKU*z* R*v*b*v* tP*o*v Ki*tj* B G*,tj* v m*ú**t*K*o*R*v*b*t*Z c*v*e Ges G m*Kj* mnR*c**lc* ``f*f*I R
mg*t*ni mnR e*v*en*v*t*i* t*im* c*Z*i*v*a | c*Z*K*v* Ki*t*Z c*v*e | c*v*K GKU*z* Av*c*b*v* Av*k*c*t*k
Ah*t*Z*ø* Ae*t*n*j* v*q* t*e*to DV*v* f*f*I RM*tj* v m*ú**t*K*o*GKU*y* f*v*j f*v*tē tR*t*b ev h*v*v AeMZ Z*t**t* i
c*v*gk*ø*Z t*im* c*Z*K*v* | c*Z*i*v*a e*v*en*v*i*i* tP*o*v Ki*"b*| G*t*Z K*t*i GK*w* t*K* Av*c*b*v*
W*Krmv* e*q* thgb m*v*k*ø* n*t*e, c*v*k*v*c*w*k i*m*q*ib*K J*t*ai Aek*v*tex c*v*k*e**Z**muqv* t*t*K g*ø*
*v*K*t*Z c*v*te*b* | Aci c*t**¶* Avg*t`* i t*^* k*xq* f*f*I R DW*m* mg*t*ni c*Pj* b Z*v* e*v*en*v* e*p*x t*c**t*Z
*v*K*t*j i*m*q*ib*K J*t*ai Dci *ib*f*P*Z*v* K*t*Z *v*K*t*e, Av*i* Gi g*v*a*t*g*B* Avg*t`* i Av*v*a*"* my*"* |
ib*t*i*m* t*^* t*n* `x*N**R*xe*b* j*v*f m*æ*e n*t*e et*j* Avg*i* we*k**m* |

meccbečq eṇ cRwZ msi ṣtY- PÆMög nekile` vj q K'wúum

W. tgwvvaṣ Kugyj tnuvBb

cōdmi , Bbw-NDU Ae dti w- GÛ Gbfvqj btgxUyj mvqtYm,

PÆMög nekile` vj q, PÆMög

B-tgBj t mkhossain2009@gmail.com

mPbut

cw_exi mgMÖRxe RMZtK cōY Zt DwM̄c | cōY RMr wnm̄te fM Kiv nq| cw_extZ Avgiv
 thme weP̄t aiYi AbRxe, DwM̄c | cōYi mgwvvi t_wL ZvB RxewP̄t | GB AbRxe, cōY |
 DwM̄c m̄t̄i Avgit` i Rxeb, Rxekv | cw_tetki mw_ Awt"Q` fvte RwoZ | RxewP̄t cō E
 cY Ges tme Avgit` i A_BwZi gj PwJ Kv k̄w³ | mw-cōZK mgfq eP̄t gq Rxekfj i iP̄v |
 msi ṣtY weAvbx, bwZibañK, ivRbwZwe mn mgvtRi mevB tmvPvi | ^RweK m̄ut` i msi ṣtY,
 Drcv` b Ges eenvi B RxewP̄t i A_BwZK ZvrchCenb Kfj | cRwZi miwm̄i eenvi K
 evRvi gj " Qwovl mgwRK, mws_wZK, cw_tek, cōZtek | AvawZK gj " gvb tkv b Astk Kg
 bq| Avgit` i cōqyRtbi ZwM̄t B RxewP̄t msi ṣtY cōqyRb, GQwov cw_exi mwjoi me wKQz
 msi ṣtY Avgit` i `wqZi | KZfe i gtaB cto| cōP̄t ev ctiwP̄t fte RxewP̄t Avgit` i
 teP _vKvi Rb Acwvwhc cw_tek, RxewP̄t msi yY | DbqbtK evsj vt` k msweavtbi
 18(K) Abt"Q` gj bwZ wntm̄te Ašf® Kiv ntqfQ | GtZ ej v ntqfQ th, Wivó eZgqb |
 fwel "Z bwMwi Kf` i Rb cw_tek msi ṣtY | DbqbtK wteb Ges cōKwZK m̄u, RxewP̄t,
 Rj vflg, eb | eb_cwxi msi ṣtY | wbivcEv weavb Kwi tewb | eṇ m̄u t_k bM` A_©Avtqi
 GK wnm̄te t_Lv hvq th, MwQ t_k tgwU t_k R Drcv` b A_BwZK 12 nvRvi 390 tKwU
 UvKvi gj " msfhvRb nq| evsj vt` k cw_ evi chq MwQ j wMwvbi mw_ 74 j vL 26 nvRvi bvix
 cj"l hy³ AvtQb | t_ki 29 j vL 59 nvRvi 608 wL cw_ evi MwQ j wMwvbi gva"tg wbRi |
 t_ki A_BwZtK mPj titLtQ (cōg Avtj v, 26 Rj vB 2015) |

cōw | DwM̄c eP̄tZwq evsj vt` kt

AvgZtB tQwU ntj | tfsMwvj K Ae"bMZ Kvi tY evsj vt` k GK mgq RxewP̄t ficij wQj |
 cw_msLwvb t_Lv hvq th, evsj vt` k cōq 5,700 mcP̄uK DwM̄c, 708 cRwZi gwQ (442
 cRwZi mgwK gwQmn), 34 cRwZi DfPi, 154 cRwZi mixmc, 650 cRwZi cwl |
 121 cRwZi "b"cvqx cōY we"gvb wQj | evsj vt` k ietb 266 cRwZi DwM̄c, 300
 cRwZi cvLx, 50 cRwZi mixmc, 8 cRwZi DfPi, 177 cRwZi gwQ, 24 cRwZi wPsW, 7
 cRwZi KvKw, 16 cRwZi kvgK/wSbK, 3 cRwZi K"Qc | 50 cRwZi "b"cvqx cōY

AvtQ | Avgut` i wekjm mWKFvte mtfKiv ntj G msL`v Avti v evote | Zte AvksKvi weq-
newfbekvi Y thgb NWSo, j ebv³Zv ejx, Rj evqy cwi eZB RbZ mgj` ctqi D"PVv ejx |
AZwaK mpu` AvniYi dtj my` ieibi 2 cRWZi DfPi, 14 cRWZi mixmc, 25 cRWZi
cLx | 5 cRWZi ^b`cvqx cWY ugikj mpu`b Ges wejB nlqvi ct_ | evsj vt` tk Dwmc |
cWY Avbtkvi (Encyclopedia of Flora and Fauna of Bangladesh) eB Abjvti ti KWRZ
cy`uk Dwmc i msL`v Pvi nvRtii Kg| Aek mgMevsj vt` tk, wekli Kti K evRvi, PEmog,
cveZ PEmog | mtj U ebvAtii ^Mg ebvAtj i mWKF mtfKiv mpe ntj Aek`B G msL`v
AtbK tejo hvte etj Dwmc neAvbtk` i wekjm| mekli 2015 mtj evsj vt` k eb MteiYv
BbwDU nZ cKwKZ Zt_ Rvbv hvq evsj vt` tk i agn eP cRWZi msL`v 1048 (emwK
Ges Avj g 2015) |

Rxe%P`i mWKF Avgut` i Acwibig` kxKihPgt

eZgvtb cWexi cWq GK cAgisk cWYx | Dwmc cRWZ wejybi SIKZ itqto | eb`cWYx
msi P`Y iv ej tQb, wejB ntZ hvl qv cWYx | Dwmc cRWZi msL`v w`b w`bB evotQ | Zte
wbeo msi P`Y cWq wejBcWq wKQycRWZtK wbo`y nlqvt_k iPv Kti tQ | Rvcfb Abjz
RwZmsN Rxe%P`i mtqj tb AvSRwZK MteiK`j eb`cWYx | Dwmc i Dci t`qv GKvU
প্রতিবেদনে উল্লেখ Kti tQb, DfqPi cWYt` i gta` 41 fM Ges cWLt` i gta` 13 fM cRWZ
D"p SIKZ itqto | `P`Y | `P`Y ceGukqyq Rxe%P`i metPq ugikj gqL etj Zviv
Rvbv | Awak RbmsL`v Pvtc eb aYsm, AwZi³ Avev, eP wbab | Re Rij wbi eenvi
evotQ GB AAtj | dtj bo ntQ eb`cWYt` i Avev | Avkq`j | nwfw`wekhe` vj tqi
Aavck | cwi tekne` GWI qWDBj mb etj b, ORxe%P`i tgi`^U tf0 ctoQ | 0 wZb
etj b, wejybi Rb SIKCYcRWZi msL`v evotQ | Zte cwi tekne` iv GK_vl ej tQb th,
msi P`Y tRvi` vi ntj wecbaoe u cWYx B iPv cufe | 0cRWZ iPv Kngkb0 Ges eb`cWYx msi P`Y
ms`i AvBBDmGbGi (IUCN) tPqvi g`b etj b, 0eb`cWYx msi P`Y cWq tRvi` vi Kivi ci
eu 0tC wejBcWq cWL | cWYx cRWZ iPv tcqto | eo ai tbi P`Z nlqvi AvtMB wZb
eb`cWYx msi P`Yi Df` M evotbvi Dci tRvi w`tqto | dtqYi cWim my` wekhe` vj tqi
MteiK cj wj wj etj b, 0thfvte newKQy Pj tQ tmfvte Pj tZ _Vktj fqven wechq
AewiZ | 0 wj wj i mtZ GKgZ ntqto wefbet` k t_k Rvcfb Rxe%P`i mtqj tb thM
t`qv MteiKiv | Zt` i gZ, 2020 mtj i gta` Rxe%P`i cwi w`Zi DbZ NuZtZ wek
tbZZtK GKthtM KvR KtZ nte |

WKS` fM th, ^Z RbmsL`v ejx, cwi tek wechqKvix Dba`b KihPgt, eb DRvo, cOKwZK
mpu`i Awak AvniY, Avev`j aYsm, AwMox cRWZi AwMgb BZ`w` Avgut` i t`ki

Rxe%^P^T nūm gE fūgKv cūj b KtītQ| Kwl kI " e^P^T I evsj vt` k mgxkvj x wQj | Kwl
wĀvbx` i gZ evsj vt` tk GK mgq cūq ` k nvRvi fūvBwU ev RvtZi avb we` "gvb wQj |
wecj RbmsLvi Lvt` i Pwñ` v wglvbtv Rb" D"p dj bkxj avb (Bwi, nvBwW BZ"v) PvI
KiZ M^tq tm me wfbe" I RvtZi e^P^T agr^oavtbi RvZ mgñ Avgiv AtbKwB nwñ t^q
tdj wQ| D"p dj bkxj RvtZi avb PvI KiZ M^tq i vñvqñbK mvi | KxUbwK cūqvtMi Kvi tY
Rj rfgtZ gvQmn wewfbœclBtUvñbKUb, RgnvKubI nwñ t^q tdtj wQ| Abjfc, evsj vt` tk
cōKwZK etbi cñi givY Kg ntj | etbi Rxe^e^P^T Ab"v" AtbK t` tk Zj bvq cōPth^oficj |
Avbgw^bK 600 e[¶] cōRwZi Avevñ"j K evRvi, PÆM^og | cve^Z PÆM^ogi AtbK ebwA^j
µgrv^sq 3-4 wU cōRwZi GKK ebvqtb ifcvñZ nt"Q| 1871 mw^tj me[¶]l^g cve^Z PÆM^ogi
i vgcvnvo-mxZcvnvo Gj vKvq cōKwZK ebwA^j mvdvB KvUvi ci tm₂b Pviv j vñv^tbi gva"tg
eb e^e"vcvñi m^tcñZ ntj | wMZ KtqK ` ktk cōKwZK ebwA^j DRvto i D^tMRbK nwñ
te^tQ| GtZ cñZtek | cñi te^tki eiveb AcⁱY^q ¶ñZ ntq^tQ| GQvor eb DRvo, ebfgi
wKí e^eenvi, emwZ "vcvñi fñg `mj | Amr KgRZ^oKgPvix` i thwMmvR^tmI cōKwZK
ebwA^j i gj "evb t` kxq e[¶] cōRwZi wej yB AtbKv^tkB Zj vñZ nq| nvRvi eQ^tii mvKt^tmb
cñuqvq M^to DVv ebwA^j w^tkl Kt^t k^tvj | cvñvñi ebwA^j i D^t i vñR thgb e^P^T fici
wQj , wK tZg^b cñi te^tki fñi mg^b i ¶ñvñi eb^b cñYK^tj i w^tvc` Avevñ"j wnm^tel w^tetwPZ
nZ | "f^tM^oth, Avgiv Avgv^t i tmB gj "evb Rxe%^P^T i Aw^tKvskB nwñ t^q tdtj wQ| A "vñia
Rxe%^P^T msi ¶ñtY Avgv^t i D^t "wM Avkvbjfc bq| BwZgta" eb DRvo | cñi tek ` t^tYi dtj
Avgv^t i t` tk 226 cōRwZi D^t , 54 cōRwZi gvQ, 41 cōKvi cvLx, 40 cōKvi mixmc | e^u
"b^tcvq^x cñYi Aw^tZj ugñK^ti g^tL etj Rv^tb hvq | m^tWk i ¶ñYt^te¶Y e^e"v M^to tZv^tj v bv ntj
G msL^tv fñel "tZ Av^tiv e^tix cñt^te | fñel "Z Rj evqy cñi eZ^tRwZ Zvcgvñv e^tix | mgj t^t
ùxZ ntj DcKj xq Gj vKv^t Rxe%^P^T w^tkl Kt^t Kwl %^P^T i Zvch^tY^tte ¶ñZM^t n^te |

evsj vt` tk wecbœ¶, wectbœ Kvi Y | msi ¶Y D^t "w^tt

wecbœ¶Ó wnm^tte Avgiv tm me e[¶]tk ¶ñYz KiZ cñi bvbwea Kvi tY hv^t i cñi givY,
msL^tv, w^tZi "v^tb cññZ mnñZ ntq AvmtQ, ev tKv^tb w^tØ Gj vKv^t gta" e[¶]l^{ij} mxgve^x ntq
tm^tQ| D^t "t^t i esk e^tix t^tvc cñt^tQ A_{ev} esk we^t vi L^teb nm^t t^tq^tQ| mg^tqi w^tvi tL
cñc^tZvi cñi givY, t^tLv Aw^tAZv, cñ^tY e^tñ^t i Aw^tAZv, ebR m^tu^t Avni YKv^t i
Aw^tAZv me wgnj t^tq wej ^tß, gnwecbœ wecbœl ùgKxi m^tñ^txb e[¶]l^{ij} | Ab"v" D^t cōRwZ
wm^tte f^tM Kiv hvq | w^tkl^t w^tc^tbK, wej ^tß A_{ev} wej ^tßcñq D^t mg^tni Z_ñ m^tñ^t Z cñ^tK
nt^tQ t^tW WwUv eB (Red Data Book) | 1978 mw^tj WWF Gi A_ñkbKtj" IUCN KZ^o
cñg GB cñ^tKwZ cññZK nq| cñg chñq GB cñ^tK cñ^txi wewfbœA^tj i 250 wU cōRwZi
tKm wññ^thn Zv^t i bv^t (Family, Genus and Species), eZ^tvb Ae^twbK gvb we^tZ,

cmi cwkR Ae~ib, wej β ev wect` i Kvi Y, MpxZ msi ¶Y gj K e~e~v, cōweZ msi ¶Y gj K e~e~v, evqyj Rx I e~envi Dc̄hwMzv, PvI ver` c×wZ, eYv I Z_” wb‡RKv †` I qv nq| wej β, wej βcōq ev wec³⁴bK c̄RwZi Ae~ibK gvb ev chq (Status) c̄Kvki Rb” Red Data Book G KZ, †j v †kly ev K̄UWm i e~envi Kiv nq| Gme K̄UWm wej β, c̄KwZKfvt wej β, gnwecebø wecbebø msKUvcbøt dhv (Flora) I dbv (Fauna) Dftqi Rb”B e~eūZ nq _ytK|

evsj vt` tk we`”gvb bvbmea c̄KwZK I gwbeamó Kvi tY AtbK Dw”c, cōY Z_v Rxe-%P†“ AvR wecboeI ügKxi m¤xLxb| GK mgq mnR cvl qv thZ GiKg AtbK e¶tK Zvi Aw` Avevm~tj Avi LjR cvl qv hv”Qbv| AtbK Rv‡Zi e¶tK nq:tkl nq tm‡Q| evsj vt` tk wecboe nI qui Kvi Y mg‡ni gta” wecboecwi tek, Avevm~j aysm I wbewPti eb DRvo, Drct` tbi AwZm³ I Acwi Kvi Z m¤ú Avni Y, ci~ui wbFpkj Dw”c I cōYi esk nm, Acwi Kvi Z ebvqb, we‡kl Kti ebvqb we‡kx AvMömx c̄RwZi Awak” cōvb Ges m¤z I mgwšZ ব্যবস্থাপনার অভাবকে উল্লেLthwM Kvi Y ej g‡b Kiv nq|

newfbøZ_” DcvE we‡kl tb †` Lv hq evsj vt` k eZgvtb 486 wU Dw”c c̄RwZtK ügKxi m¤xLxb etj we‡ewPZ Kiv nq‡Q| Aek” 1990 mv‡j me‡og 20 wU Dw”c c̄RwZ (nK Ges embK 1990) Ges 1991 mv‡j 25wU Dw”c c̄RwZ (Lvb 1991) wecboetj we‡ewPZ nq| 2001 mv‡j (Lvb Ges Ab”b” 2001) 106 wU Dw”c c̄RwZ I 2013 mv‡j (Avi Ges Ab”b” 2013) 120 wU Dw”c c̄RwZtK ügKxi m¤xLxb we‡epbvq j yj Zwj KvF³ Kti b| Aek” (Encyclopedia of Flora and Fauna of Bangladesh) (2007-২০০৯) এবং ইরফান উল্লিন (2011) evsj vt` tk 486 wU Dftqi প্রজাতিকে হৃষির সম্মুখীন উল্লেL Kti tQb|

Dw”c M̄c	t̄i KWRZ c̄RwZi msL”v	gnwecebø	wecboe	msKUvcbø	ügKxi m¤xLxb
dvY@M@	295	0	0	36	36
bMexRx	07	0	1	0	1
AveZexRx GK exRcTix	2,623	8	80	179	267
AveZexRx WexRcTix	988	22	46	114	182
tgw	3,413	30	127	329	486

wecboDw”c ev e¶t Kfvt we msi ¶Y Kiv hvqt

Rxe-%P† mb` Abjhvqx c̄Z”KwJ †` k Zvi wbR~^Dw”c /cōY msi ¶tY h_w_h_ e~e~v tbte| eZgvtb evsj vt` tk 39 wU msi ¶Z Gj vKv (Protected Area) gva”tg Avgvt` i Dw”c /cōY msi ¶tbi Df̄i wM tbqv nq‡Q|

A⁻wbK msi¶Y (*In situ conservation*) t wecbœv wej þcōq Dw^{MC} ¶PlýZ ev mbv³ Kti Zvi
Avevm-¶j i ms- vi ev cþifximn msi¶Yi e-e- Kiv| Bnv GKU `xN^Cgqv` x Kg^CxW|

A⁻wbK msi¶Y (*Ex situ conservation*) t Avevm-¶j i msi¶Y QrovI Zvor e-e- MøtYi
Rb⁻ wecbœv¶i exR ev KvuUs msMø KiZ: Pviv Drcv` b Kti tm me Dw^{MC} i cþefn^tbi e-e- Kiv| G¶¶t[†] Pviv Drcv` b Kivi ci gj Avevmfugmn wevfbae-¶t^b j wMtq esk we- wi Kiv hq| A⁻wbK msi¶Yi t¶¶t[†] bvm¶i i mv_ m¤u³ bvm¶i i gwj KMY wetkl fngKv ivL^tZ c¶ib|

Avi Y'K dvDtÜkb I PÆMög wekje` vj tqi thS_Dt` vM evsj v` tki wecbœq e¶l cRwZ mgñni msi¶Yi GKU D¶t[†] vM BwZgta^B tek mdj Zv t` wL^tq¶Q| cLgZ: t` tki wevfbae-¶t^b tgvU 26 wU bvm¶i i gva^tg wecbœq e¶l cRwZi Pviv I A½R cRbtbi gva^tg Gt` i esk we- wi I fwe^tr exR Drcv` tbi Rb⁻ gvZe¶l %Zix Kiv| wZxqZ: evkcvZv, wwfUmn evsj v` tki cvnvo ebvAj I gacjii kuj eb Gj vKvq Rixci gva^tg wecbœq e¶l cRwZ mgn wba¶Y, exR msMø, Pviv Drcv` b Ges wekje` vj q Kv¤uvtm exRevMw^b ^Zix Kiv| BwZgta^B c¶q 76 wUi g¶Zv e¶l cRwZi Pviv Kv¤uvtm j wMtbi gva^tg Gt` i A⁻wbK msi¶Yi D¶t[†] vM tbqv ntq¶Q| cvnvo, wJ v, mgZj fng, tj K, SY[¶] Avenaviq 1700 GKi AvqZb wekje` vj q Kv¤uvtm 187 cRwZi e¶l, 174 cRwZi , j, 396 cRwZi exi^tr, 78 cRwZi Avtivn, 44 cRwZi Aikw, 47 cRwZi %kevj I 52 cRwZi dvY[¶] we^tgvb (A⁻wbK AvRv^x, 25.07.2010)| BwZgta^B Bbvw- wDU Ae dti w-^a GU Gbfvqi btgUv^v mvq¶Ym I Avi Y'K dvDtÜk^tbi D¶t[†] vM t` kxq msKUvcbaet` kxq e¶l cRwZ mgn, thgb- nj ` y KvBKv (*Adina cordifolia*), %ej vg (*Anisoptera scaphula*), BPwi, Kvšt KiB (*Anogeissus acuminata*), wCZivR, iqbw (*Aphanamixis polystachya*), Awi (Aquilaria agallocha), wRj (*Barringtonia acutangula*), KvBbRvj, j Dew^t (*Bischofia javanica*), eb-wkgj, cvnwo-wkgj (*Bombax insigne*), gm^t (*Brownlowia elata*), cBiM, ajc (*Canarium resiniferum*), Kgwf, Mw` j v (*Careya arborea*), evUbv, wkj -evUbv (*Castanopsis indica*), RvZ evUbv (*Castanopsis lancifolia*), wPKiwk, wPUwMs DW (*Chukrasia tabularis*), tZR enj, KmZw^t (*Cinnamomum cecidodaphne*), enj (*Cordia dichotoma*), nvi MwRv, AvRjj (*Dillenia pentagyna*), awj -MRØ, Wj vBqv- MRØ (*Dipterocarpus alatus*), evBÆv- MRØ, wkj -MRØ (*Dipterocarpus costatus*), Ky evtij v, j vDeftij v (*Holigarna racemosa*), ev` i új v (*Duabanga grandiflora*), SgKv ew^t, tPvi KvUlj R, wKPiV-ew^t (*Engelhardtia spicata*), ei-nwi bv (*Erioglossum rubiginosum*), D` vj , DRvj , cvUv

՚Ո (Firmiana colorata), Կբախ (Gardenia coronaria), եւիյ ՚, ՏvDqv
 (Holigarna caustica), ՚Zj ՚mj (Hopea odorata), ՚Pj ՚Miv, ՚Wj ՚Mvi
 (Hydnocarpus kurzii), ՚Kw -K` g, ՚fB-K` g (Hymenodictyon orixensis), ՚m` ՚
 Rvi "j , ՚Wj ՚ Rvi "j (Lagerstroemia parviflora), ՚jev evUbv, ՚Kvš-evUbv (Lithocarpus
 acuminata), eo evUbv (Lithocarpus elegans), ՚Kwj evUbv, ՚Kvj evUbv
 (Lithocarpus feñestratus), ՚BRv evUbv (Lithocarpus pachyphylla), ՚i ՚b
 (Lophopetalum fimbriatum), ՚ejv, (Macaranga denticulata), ՚gûqv, ՚gûDqv
 (Madhuca indica), ՚Wj ՚Pvúv, ՚Av` ՚Pvúv (Magnolia pterocarpa), ՚Kvqj ՚, ՚m` ՚x
 (Mallotus philippensis), ՚Dvi Avg, ՚Rvqj Avg (Mangifera sylvatica), ՚Pvúv, ՚Pvúvdj
 (Michelia champaca), ՚Uwj , ՚j ՚wj (Palaquium polyanthum), ՚U ՚Uv, ՚bDi
 , ՚j ՚-ew` (Protium serratum), ՚KbK ՚Pvúv, ՚gm, ՚gmMÜv (Pterospermum
 acerifolium), ei ՚Avvvi, ՚j ՚bv-՚Avvvi (Pterospermum semisagittatum), ՚ekz
 bwi ՚Kj , ՚Kw ev` vg, ՚bw ՚Kw (Pterygota alata), ՚KbK, ՚gb-՚Pvúv, ՚tevbvK (Schima
 wallichii), ՚Kmg, ՚Rqbv (Schleichera oleosa), ՚dvBk`v-D`vj , ՚D`vj (Sterculia
 villosa), ՚vigriv (Stereospermum personatum), ՚cvi ՚aj , ՚Kvg ՚tmvbvj ~
 (Stereospermum suaveolens), ՚XwK-Rvg (Syzygium firmum), ՚etniv
 (Terminalia bellirica), ՚nvi ՚ZwK (Terminalia chebula), ՚Pvj , ՚g'vBbvKvU
 (Tetrameles nudiflora), ՚Zb, ՚mj ՚Rte` , ՚i ՚h (Toona ciliata), ՚Avi "j , ՚nvi bv, ՚v
 (Vitex glabrata), ՚v, ՚nvi bv, ՚Avkj (Vitex peduncularis), ՚evRbv, (Zanthoxylum
 rhetsa) ՚cPjZ e ՚Pi Avi ՚tev i ՚Uvg ev exR Drcv` b ՚vU ՚mRb Kiv ՚ntqfQ| ՚evsj ՚v` ՚ki A ՚bK
 i ՚PjZ Gj ՚Kvi ՚Zj ՚bvq P ՚EMög ՚ekle` ՚vq K ՚vúv Rxe% ՚PfT ՚AtbK ՚tekx mgx | ՚Rxe% ՚PfT ՚
 ՚kPv, ՚Mte ՚Yv, ՚cvi ՚tek D ՚qb Ges ՚cPjZ ՚tek I ՚chob m ՚úvvi ՚Y ՚etkl ՚fngKv ՚vL ՚Z ՚c ՚i |
 ՚t ՚ki ՚d ՚i ՚v ՚R ՚b ՚UK ՚v ՚t ՚m ՚n ՚msi ՚P ՚Y Avi ՚YK ՚dvD ՚Ükb I ՚d ՚i ՚v ՚B ՚b ՚v ՚UD ՚Ui G ՚D ՚v ՚M
 ՚t ՚ki ՚b ՚R ՚v ՚c ՚R ՚w ՚Z ՚mg ՚ni ՚P ՚vq GKvU ՚gvBj ՚dj K| ՚Z ՚e G ՚hv ՚vq Avg ՚t ՚i ՚K Av ՚i v
 A ՚bK` ՚i ՚th ՚Z ՚n ՚e, ՚Z ՚eB ՚evsj ՚v ՚k ՚K Avg ՚v GKvU Rxe% ՚PfT ՚c ՚Ph ՚gq ՚t ՚k ՚m ՚v ՚t ՚ek
 ՚i ՚ev ՚i ՚n ՚w ՚Ri K ՚t ՚Z ՚c ՚v ՚e |

fÆvi tivM | Zvi cÍKvi

W. tK. Gg. Lvj K34vgub

DaÝZb %ÁwbK KgRZP(DwMC tivMZÉ)

gmj v MteI Yv tK>; weGAvi AvB

ikeMÄ, e, ov, evsj vt` k |

avb | Mgi ci fÆvi evsj vt` tk ZZxq | D"p dj bkJ ` vby RvZxq dmj | vt` kji wewfbet` tk
Bnv eúea Lv` " ZixZ e"eüZ ntq _vtK Ges tKvb tKvb t` tk Bnv cawb Lv` " | Kš'
evsj vt` tk mawai bZt ci, gjMx | grm" Lv` " mmvte e"eüZ ntq _vtK | avb | Mgi Zj bvq
GtZ cöq 11% Awgl RvZxq Dcv` vb i tqfQ | wewfmemgmvi Kvib evsj vt` tk fÆvi dj b
AtbK Kg| Zbta" tivM Ab"Zg| MteIKt` i gZ evsj vt` tk fÆvi tgvU 28 w tivM mbv³
Kiv ntqfQ, hvi 19 w QÍvKRvbZ, 1 w e"KtUwi qvRvbZ, 3 w fvBivmRvbZ Ges 5 w
KigRvbZ tivM | fÆvi tivM wbqštY ivLtz cvitj fÆvi Drcv` b AtbKvstK ejx Kiv m¤e |
fÆvi KtqKiu cawb QÍvK RvbZ tivM | Zv` i ` gb e"e" w m¤utKqbtgæbØ Kiv nj -

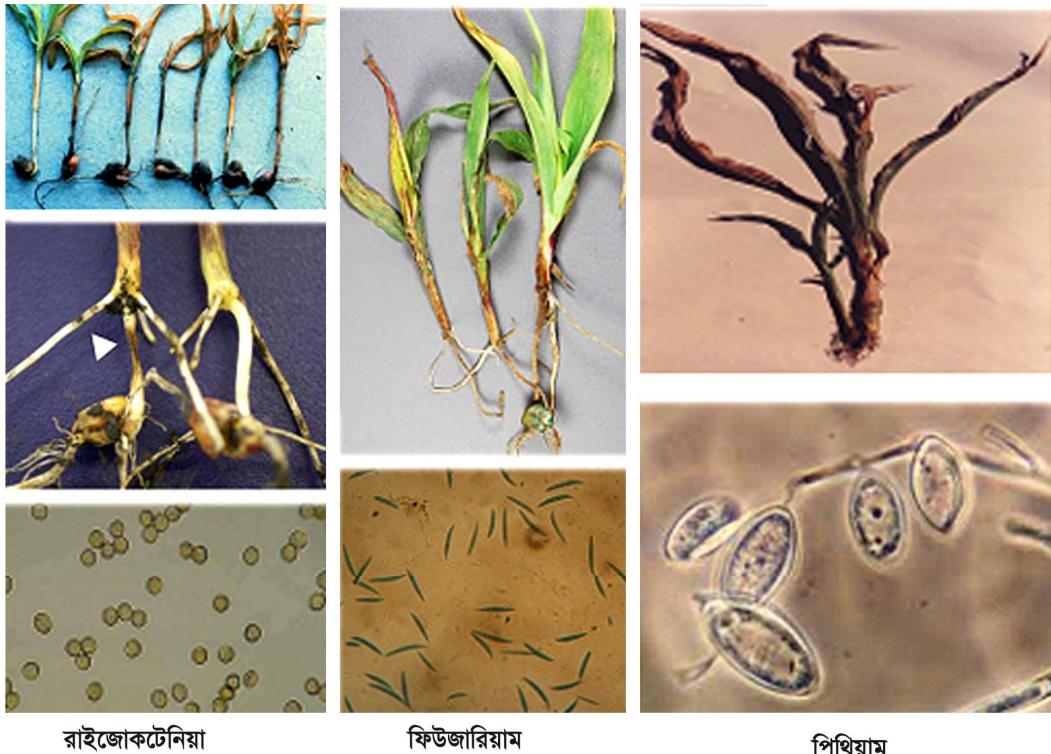
1| tivMi bvg t ami exR cPv, gj cPv | Pvi v Sj mvtbv tivM |

tivMi KviYt ivBtRvKtUmbqv (Rhizoctonia sp.), wdDRvviqvg (Fusarium sp.),
wcv_qvg (Pythium sp.) BZw w QÍvK Øviv G tivM ntq _vtK |

tivMi we"vi t exR | gwUi gra"tg G tivMw Qovq | gwUi Av"Zv tekx ntj QÍvK
Avugtbi gwv teo hvq |

tivMi j¶Yt

- RigtZ fÆvi MvtQi msLw Ktg hvI qv |
- ecb Kiv exR cPb aiv |
- Pvi v MRvtbvi cteB exRi AsKi gti hvI qv |
- Pvi v Sj tm hvI qv |
- tMvov I wKo cPb aiv |
- wKo ev` vgx t_k Kvtj v is aviY Kti |
- MRvtbvi Pvi v Xkj cto I gti hvq |



ରାଇଜୋକଟେନିଆ

ଫିଡ଼ାରିଆମ

ପିଥିଆମ

ପତ୍ର: fAvi gj cPv | Pviv Sj mfbv tivMi j PY Ges tivM mokvix QtvK

tivMi cikvit

- ମ୍ୟ', ମେଜ | tivMgj³ exR ecb KitZ nte|
- KiteRg Mtc ci QtvKbvkK (thgb-AUW-b) A_ev KiteR b + w_ivg Mtc ci QtvKbvkK (thgb-tcFv 200 ଡାଇଡିକ) cik tKvR exR 2.5 Mög nti wglktq tkvab KitZ nte|
- dmj Dwi ci cLi ti\\$` (gvPGwcJ gvtm) Rg PvI KitZ iLZ nte|
- DEgi'tc Rg PvI | cwingZ itm exR ecb KitZ nte, A_F gmuZ AwAK im ivLw hte bv|
- tivM t' Lv w' t'j KiteRg Mtc ci QtvKbvkK (thgb-AUW-b) cik wj Uvi cwbZ 2 Mög nti wglktq 7 w' b ci ci 2-3 evi Pvivi tMvoq t'cokitZ nte|

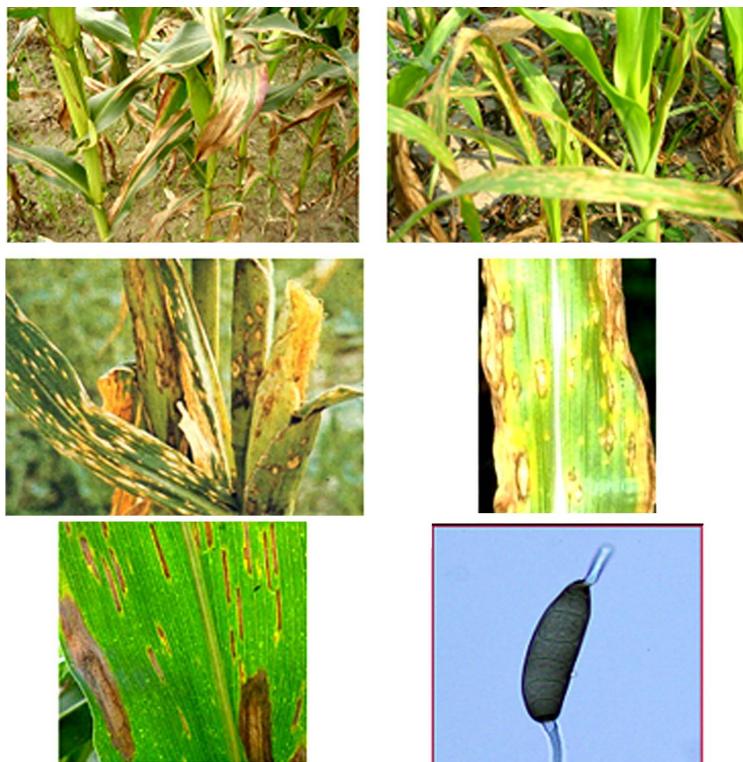
2| tivMi bvgt cvZv Sj mfbv (Leaf blight) tivM

tivMi KvYt tnj wgbt_vmtcwi qvg UviimKig (*Helminthosporium turcicum* Syn. *Bipolaris turcicum*) bvgK QtvK 0viv G tivM nti _vK |

**‡ivtMi we~wi t G ‡ivtMi RxevbyMtQi Avμvš-Astk AtbK w`b teP _vtK | Rxevbyj exRKYv
 ev KibWqv evZvtmi mvnvth AtbK ` i chS-my" MtQ QovtZ cvti | evZvtmi
 Av~Zv tekx ntj Ges 18-27 wWMÖtmt ZvcgvTvg G ‡ivtMi Avμgb teTo
 hvq |**

‡ivtMi j ¶Yt

- MtQi bxPi w`tki cvZvq j w ev wMwKvi `vM t`Lv hvI qv|
- cti Avμvš-`M, tj v AvKvti eo nl qv|
- cieZxPZ MtQi Dctii Astk we~wi j vf Kiv|
- `vM, tj v wKiv eivei evoZ_vKv Ges ami eYavi Y Kiv|
- ‡ivtMi cOKvc tekx ntj MtQi cvZv AvMvg i wKtq hvI qv | MvQ gviw hvI qv hv AtbK
 mgq Livq Avμvš-nfqtQ ejj gtb nl qv|



বাইপোলারিস

WT: fAvi cvZv Sj mvtbv ‡ivtMi j ¶Y | Q̄tV

titMi cIZKvit

- titMi cIZtitivax RvZ PvI KitZ nte|
- dmj msMoni ci cvZv, KvU BZw cto tdj tZ nte|
- KvteRg Mtc ci QTrKbvkK (thgb-AfUw-b) A_ev KvteR b + w_ivg Mtc ci QTrKbvkK (thgb-tcfw 200 Dm) cIZ tKwR exR 2.5 Mg ntli wguktq tkvab KitZ nte|
- cwi "QbaPvIvev` Ges cwi wZ mvi | tmP cObb KitZ nte|
- titMi t Lv w tj AvpuS-dmtj tcwctKvbvRij Mtc ci QTrKbvkK (thgb-Wje 250 Bwm) 1 wj Uri cwbZ 0.5 wgyj A_ev KvteRg Mtc ci QTrKbvkK (thgb-AfUw-b) 1 wj Uri cwbZ 2 Mg ntli wguktq 10 w b ci ci 3 evi t cOKitZ nte|

3| titMi bvgt WwDib wjg wND (Downy mildew) titMi

titMi KviYt tcitiwbt-#iwt-uviv mi MvB (*Peronosclerospora sorghi*) bvgK QTrK 0viv G
titMi ntli vK |

titMi we wi t gwJ, tcwI K | AvpuS-exR 0viv Qovq |

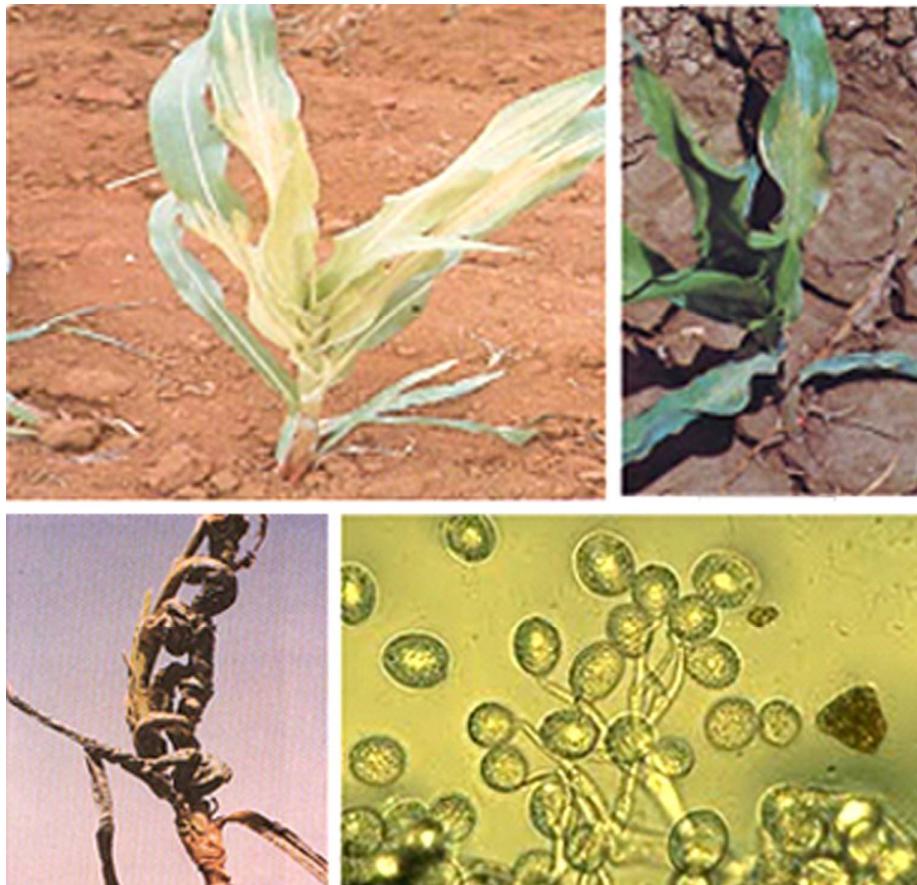
titMi j wY t

- AvpuS-MvQ LeKwZ, eP | weeYqI qv|
- AvpuS-cvZvq j wj j wj mv wU wM cov|
- cti Mwqi cvZv wKQwv nj y etYp ntli hvl qv|
- AvpuS-cvZv bxtP mv v QTrK Ges QTrKtKi exRKbv Lwj tPvtLB t Lv hvl qv|
- cYeq- MvQ AvpuS-ntj tgwPvi AvKvi tQwU nI qv A_ev AtbK mgq tgwPv ctiwci
bv nI qv|

titMi cIZKvit

- titMgy3 my exR ecB KitZ nte|
- tgwvjtj w j + gvbtkvtRe Mtc ci QTrKbvkK (thgb-wifwqj tMw) cIZ tKwR exR 2.5 Mg ntli wguktq exR tkvab KitZ nte|
- AvpuS-MvQ t Lv gw Ztj cto tdj tZ nte|
- Rwg t_k AvZwi 3 cwb w kbi eee t KitZ nte|

- **Avgvš-Mvq** tgvfj w j + gvb‡Kv‡Re M‡ci Q†vKbvK (tgbv-wi ‡Wngj tMv) cÖz vj Uvi cwb‡Z 2 Mbg nv‡i wglk‡q 7-10 w b ci ci 2-3 evi t- cÖKi‡Z nte|



পেরোমাক্সেরোস্পোরা

WPT: fÆvi WWDnb wj j WD t i v‡Mi j ¶Y I Q†vK

4 | tivtMi bugt CíZvq `vM ev Kvi fj wi qv wj d - úU (Curvularia leaf spot) tivM
tivtMi KviYt Kvi fj wi qv j þvUv I Kvi fj wi qv g'vKDj vY (Curvularia lunata and C.
 maculans) bvgK QÍvK ðviv G tivM nþq _vK |
tivtMi ve-wit tevk Av`Zv I ZvcgvÍvq Avþgb evto | RxevbygvwUZ Ges AvþvS-MvþQ _vK,
 evZvm I cwbi gva-þg Qovq |



¶P̄: fÆvi Kvi fj wi qv wj K-úU tivMi j ¶Y I Q̄vK

tivMi j ¶Yt

- c̄tg fÆvi cvZvq tQvU tQvU tMvj A-ev wVwKwZi nj yvf `wM cov|
- cieZxPZ G `wM ,tj v ev` vgx is aviY Kiv Ges AvKvti eo n‡q KLtbv KLtbv c̄q 1
tmwg chS-nl qv|

tivMi c̄Kvit

- tivMg³ exR msMh Ki‡Z n‡e|
- dmtj i cwi Z³ Ask cpo‡q tdj ‡Z n‡e|
- AvMg exR ecb tivMi c̄Kvc Kgvq|
- tivM t` Lv w ‡j Avµvš-dmtj tc̄ic‡Kvbv‡Rvj M‡ci Q̄vKbvK (thgb-wje 250 Bm) c̄Z wj Uvi cwb‡Z 0.5 wqwj n‡i wqwk‡q 7-10 w b ci ci 3 evi t`c̄Ki‡Z n‡e|

5। **ti⁴Mi bvgt KvÜ cPv** (Stalk rot) ti⁴M

ti⁴Mi KvYt nDfRwi qvg (*Fusarium*), MfcœmWqv (*Diplodia*), Mcw_qvg (*Pythium*), Avi DBibqv (*Erwinia*), Ml tWtgbvm (*Pseudomonas*) BZw` Øiv G ti⁴M ntq _vK |

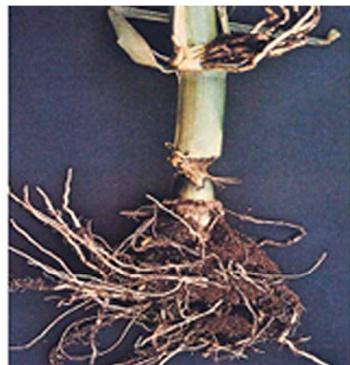
ti⁴Mi ve-wit Lwid tgSmfg G ti⁴M tekx ntq _vK | RngfZ bvBtUfRfb i cwigvb tekx | cUftki cwigvb Kg ntj QfivK RfbZ KvÜ cPv ti⁴M tekx nq| wkj v elo ev MkkO ¶Z ntj Avugb elo |

ti⁴Mi j ¶Yt

- KvÜi bxPi w` #K big I cwb tfRv `vM cov |
- wkj v elo ev MkkO ¶Z ntj Avugb tefo hvI qv |
- Avugfb MfQi KvÜ cfp hvq Ges MfQ gwfZ tf½ cov |



চিত্র: ভূট্টার ফিউজারিয়াম কান্ড পচা রোগের লক্ষণ



চিত্র: ভূট্টার পিথিয়াম কান্ড পচা রোগের লক্ষণ



চিত্র: ভূট্টার ডিপলোডিয়া কান্ড পচা রোগের লক্ষণ



চিত্র: ভূট্টার ব্যাকটেরিয়া জনিত কান্ড পচা রোগের লক্ষণ

#iM Mi cZKvit

- my' l mej exR ecb Ki‡Z n‡e |
- dmj KvUvi ci AveRv c‡tq tdj ‡Z n‡e |
- km" ch‡q Abmib Ki‡Z n‡e |
- Kv‡eRg M‡ci Q‡vKbvkK (#hgb-A‡U‡-b) A_ev Kv‡eR b + w_ig M‡ci Q‡vKbvkK (#hgb-t‡f- 200 WneDw) c‡Z tK‡R exR 2.5 M‡g n‡ti w‡k‡q tkvab Ki‡Z n‡e |
- my g gv‡vq mvi e‡envi Ki‡Z n‡e, ne‡kl K‡i bvB‡U‡Rb | cUvk mvi cw‡igZ gv‡vq c‡qM Ki‡Z n‡e |
- w‡Ko ev Kv‡U Av‡gbKvix tcvKv `gb Ki‡Z n‡e |
- WB‡d‡b‡Kv‡Rj M‡ci Q‡vKbvkK (#hgb-t‡v 250 B‡m) c‡Z w‡Uvi cw‡b‡Z 0.5 w‡g‡j n‡ti w‡k‡q 7-10 w‡b ci ci 2-3 evi †‡u‡Ki‡Z n‡e |

6| #iM Mi bvg‡ tgvPv | `vbw cPv (Ear rot/Cob and grain rot) #iM

#iM Mi Kv‡Yt #W‡m‡q‡ (Diplodia Sp), #dDR‡i‡q‡ (Fusarium Sp), #R‡etij‡ (Gibberella Sp), tc‡b‡m‡j q‡g (Penicillium Sp), Gmc‡i‡R‡j #m (Aspergillus Sp) BZ‡w Q‡vK 0viv G #iM n‡q _‡K |

#iM Mi we‡vit M‡Q tgvPv Av‡v‡ t‡K cvKv ch‡-e‡ocv‡ tek‡ n‡j G #iM Mi Av‡gb tek‡ n‡q | tcvKv ev cw‡Li Av‡gb‡b ev Kv‡U cPv #iM M‡Q gw‡U‡Z c‡o t‡M‡j G #iM e‡vcKZv j‡f K‡i | G #iM Mi RxevbyexR A_ev Av‡v‡S-M‡Q‡i cw‡Z‡3 Ast‡k te‡P _‡K | GKB R‡gt‡Z evi evi f‡vi Pv‡ K‡j G #iM `‡Z we‡hi j‡f K‡i |

#iM Mi j¶Yt

- c‡w‡gK Ae‡v‡q Av‡v‡S-n‡j c‡i‡v tgvPv | `vbw c‡P h‡l q‡v |
- Av‡v‡S-t‡gv‡v‡i t‡Lvmv | `vbw we‡Y‡n‡q h‡l q‡v |
- m‡f‡w‡Kf‡‡e `vbw c‡y bv n‡l q‡v, `vbw KP‡K A_ev t‡d‡U h‡l q‡v |
- A‡bK mgq tgvP‡Z we‡fb‡`vbw gr‡S ev Dc‡i Q‡v‡K‡i Dc‡v‡Z L‡w‡j tP‡LB †‡L‡ h‡l q‡v |

#iM Mi cZKvit

- `vbw ev N‡m Rv‡Z‡q km" ev` w‡‡q km" ch‡q Ae‡j ‡b Ki‡Z n‡e |

- Mv‡Qi cwi Z³ Ask c‡otq tdj tZ n‡e |
- Kv‡eØwRg M‡ci Q‡vKbvkK (#hgb-A‡Uw-b) A_ev Kv‡eñ b + w_ivg M‡ci Q‡vKbvkK (#hgb-tc‡F-v 200 ডল্লার) c‡Z tK‡R ex‡R 2.5 Mög n‡ti w‡ik‡q t‡vab Ki‡Z n‡e |
- tcvKv I cvLxi Avµgb n‡Z `vbv i¶v Ki‡Z n‡e |
- cwi c° n‡qvi m‡_m‡_t`ix bv K‡i tgvPv msM‡b Ki‡Z n‡e |
- tc‡ctKbv‡Ryj M‡ci Q‡vKbvkK (#hgb-Wë 250 Bw) c‡Z wj Uvi c‡wb‡Z 0.5 wgyj n‡ti w‡ik‡q Mv‡Q 7-10 w b ci ci 2-3 evi t-c‡Ki‡Z n‡e |



চিত্র: ভূট্টার ডিপলোডিয়া দানা পচা রোগের লক্ষণ



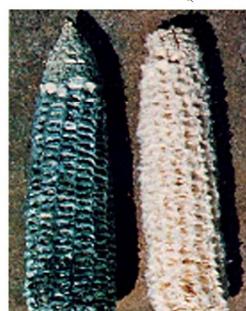
চিত্র: ভূট্টার ফিউজারিয়াম দানা পচা রোগের লক্ষণ



চিত্র: ভূট্টার জিবেরেলা দানা পচা রোগের লক্ষণ



চিত্র: ভূট্টার এ্যাস্পারজিলাস দানা পচা রোগের লক্ষণ



চিত্র: ভূট্টার পেনিসিলিয়াম দানা পচা রোগের লক্ষণ

7| **‡ivMi bvgt fAvi** cvZvi fvBivm (Virus disease) †iM
‡ivMi KviYt fvBivm Øviv G †iM n‡q _‡K |
‡ivMi we-vit fvBivm †iM tcvKv (KY[‡]U ncvi), miMg I Rsj x Nvm Øviv Qovq |
‡ivMi j¶Yt

- M‡Qi cvZiq j ¶j ¶‡kiiv eivei mi" ev PI ov nj ÿ `vM †` Lv hvl qv |
- AvpivS-MvQ Le¶KvZi nI qv, M‡Q Lv` " Drcv` b e'enZ nI qv |
- tgvPv tQvU AvKv‡i i nI qv Ges dj b nvm cvl qv |



চিত্র: ভূট্টার স্ট্রিক ভাইরাস রোগের লক্ষণ



চিত্র: ভূট্টার বিন মোজাইক ভাইরাস রোগের লক্ষণ

চিত্র: ভূট্টার মটেল ভাইরাস রোগের লক্ষণ

‡ivMi c‡Kvit

- AvpivS-MvQ Dv‡q c‡o tdj †Z n‡e |
- Rng AvMvQv gy³ i vL‡Z n‡e |
- `vbv ev Nvm RvZxq km" ev` w‡q km" ch‡q Aej ¶b Ki‡Z n‡e |
- কৰ্ণ প্লাটU ncvi G †iM Qovq | ZvB G tcvKv ` g‡bi BwgWv‡KwcvW M‡ci KxUbvkK (‡hgb-A^vWgvqvi/BwgUvd) c‡Z wj Uvi cw‡b‡Z 0.5 wgvj A_ev gvj w_qb 50 Bim c‡Z wj Uvi cw‡b‡Z 1.5 wgvj nv‡i wgv‡q 7 w b ci ci 2-3 evi †` ú‡Ki‡Z n‡e |

8 | **ti^uMi bugt** , `vg cPv (Storage disease) ti^uM

ti^uMi KvⁱYt A^{imcv}i Rj^{im} (Aspergillus sp.), t^{cibmij} qg (Penicillium sp.) Ges i^{vBtRvcv}m (Rhizopus sp.) bvgK Q^{iv}K Øri^v G ti^uM n^{tq} _^uK |
ti^uMi ve⁻wit ex^tR Av`^Zv tekx _^{Ktj} `vbv cPv ti^uM tekx nq |
ti^uMi j[¶]Yt

- tg^uPv ev `vbv fij fite bv i^uKtq , `vtg ivL^{tj} `vbv c^{tP} hv^l qv | weeY^onⁱ qv, `M^Ø tei n^l qv | AsK^{tiv} Mg ¶lgZv Ktg hv^l qv |
- `vbvq wel %ix nq hv gvb^j | ciⁱ i Rb[¶]WZKi n^l qv |
- , `vtg cPb tekx n^{tj} Q^{iv}Ki Dc^wWZ Lw^j tPtL t` Lv hv^l qv |



চিত্র: ভূট্টার ফিউজারিয়াম ওদাম পচা রোগের লক্ষণ



চিত্র: ভূট্টার এ্যাস্পারিজিলাস ওদাম পচা রোগের লক্ষণ



চিত্র: ভূট্টার ড্রেসলেরা ওদাম পচা রোগের লক্ষণ

ti^uMi c^uZKvit

- f^Av cvK^{tj} tg^uPv ZvovZwo msM^Ø Ki^{tZ} n^{te} |
- `vbv Qov^tbvi mgq thb t^f^t^½ bv hvq tm^w t^K tLq^{vj} ivL^{tZ} n^{te} |
- `vbv i^uKtq 12% Av`^Zvq , `vgRvZ Ki^{tZ} n^{te} |
- , `vtg tcuKvi Av^μgb tiva Ki^{tZ} n^{te} |
- , `vtg Zvcgv^{iv} thb bv ev^to tm Rb^{evqyPj} vPtj i e^e⁻v Ki^{tZ} n^{te} |
- `vbvq Rj xq Ask Kg ivLvi Rb^{el} K^tv^{tj} gvtS gvtS t^{iv} tⁱ Kv^{tZ} n^{te} |
- Kv^te^ØW^Rg M^Øci Q^{iv}Kb^ukK (t^{hgb}-A^{tUw}-b) A^{ev} Kv^te^Ø b + w^{_ivg} M^Øci Q^{iv}Kb^ukK (t^{hgb}-tc^{if}^v 200 ডল্লার) c^uZ t^KW^R ex^tR 2.5 M^øg n^{ti} w^{gik}q tk^{vab} Ki^{tZ} n^{te} |

†RtbiUf. i Km | mācWMb

‡gwnv§ vni K nwmv

DwM̄c neÁvM nefvM, XvKv nekje` vj q
nk̄vel 2017-2018

dvÜtgUv j †RtbiUf. i Km ḡvg tḡtUf i 1g m̄t̄i ēvZμg cowQtj b| c̄Z'K Rxtei
`en̄kó" wbqšy K̄ti Rxb h̄t̄K tḡtUf d̄v̄i etj w̄t̄j b|

tḡtUf i 1g m̄t̄i ēvL̄v Kīt̄j h̄ `woq Zv nt̄j v t̄Kv b j † Ges t̄Kv b Lv̄t̄Uv Rxtei μm Kīt̄j
h̄ GLv̄t̄b j † `en̄kó" c̄KvKvix RxbiU c̄KU nq Ges Lv̄t̄Uv `en̄kó" c̄KvKvix RxbiU c̄Qb̄nq
Zvn̄t̄j c̄l̄g c̄R̄t̄b̄i mKj eskai j † n̄te, w̄Zxq c̄R̄t̄b̄i Pv̄iU eskai nt̄j w̄Zb̄iU j † Ges
GK̄U Lv̄t̄Uv n̄te| B̄Uv̄t̄ḡW̄t̄qU Rx̄e ev gv̄Sw̄i Rx̄e n̄l qv̄ m̄t̄e bv̄|

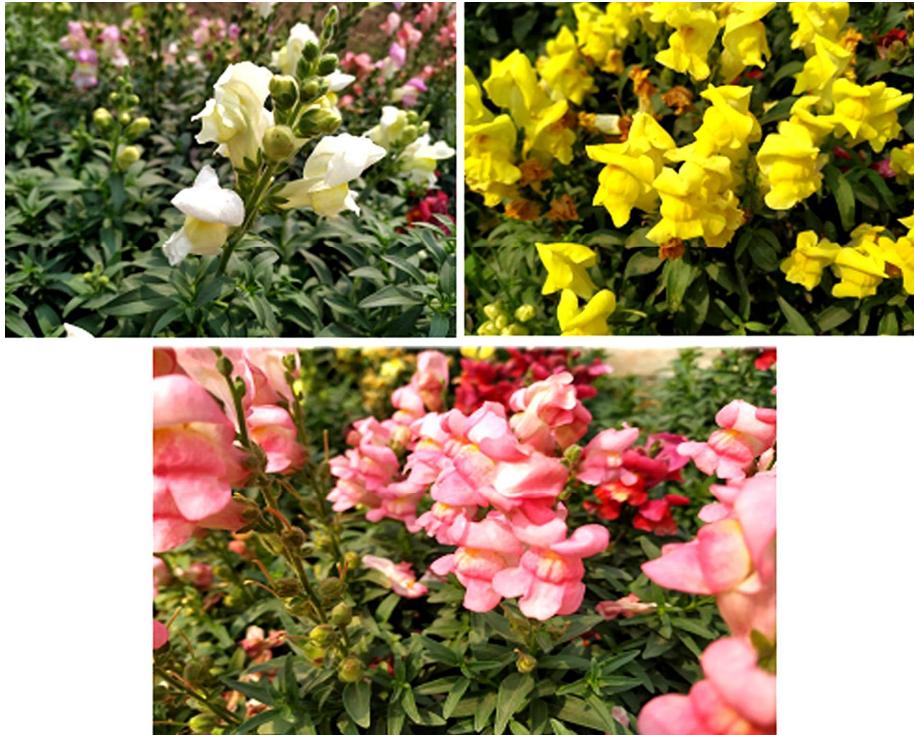
w̄K̄S̄ tḡtUf i m̄t̄i ēvZμg nt̄j v Rx̄bi Am̄uȲc̄KUZv| c̄KU Rxb m̄uȲF̄t̄e c̄Qt̄b̄i Dci
c̄F̄v̄e nēv̄ Kīt̄Z bv̄ cv̄t̄j B̄Uv̄t̄ḡW̄t̄qU Rx̄e Am̄eF̄Z n̄te ev gv̄Sw̄i Av̄Kv̄t̄i i Rx̄e †` Lv̄
hv̄te|

w̄Zb Gi D̄v̄ni Ȳ w̄nt̄m̄te mācWMb Gi K̄v̄ etj w̄t̄j b| mācWMb dt̄j i †P̄t̄i mv̄v Ges
Av̄B̄t̄f̄wi (nj̄ ȳv̄f̄ mv̄v̄n̄ eȲp̄ μm Kīt̄j †` Lv̄ hv̄q cieZr̄c̄R̄t̄b̄i ḡv̄t̄R̄Uv ēt̄Ȳp̄ dt̄j i M̄Q
cv̄l qv̄ hv̄q| Av̄t̄i v̄ Mfxi f̄t̄e †` L̄t̄j GUv̄ nq Ḡt̄š̄v̄m̄q̄w̄bb b̄v̄gK tḡUv̄tev̄j v̄BU Gi Dc̄w̄v̄Zi
Rb̄|

mācWMb (*Antirrhinum majus*) b̄v̄gUv c̄w̄iPZ w̄K̄S̄ GLv̄t̄b ī b̄tev Av̄Kv Kv̄iwb| BD̄t̄i v̄t̄ci
tb̄Uf GB DwM̄c w̄U c̄l̄q GK w̄gl̄vi ch̄S̄-n̄t̄Z cv̄t̄i Z̄te m̄v̄aviYZ GZ eo n̄t̄Z †` Lv̄ hv̄q bv̄|
ēl̄ Rx̄e DwM̄c mv̄v eQ̄iB dj̄ †` Lv̄ hv̄q|

GB dt̄j i †` B̄ cv̄t̄k Pv̄c w̄t̄j Gi ḡl̄Uv ev̄B̄t̄i i w̄t̄K tei nt̄q Av̄t̄m hv̄ †` L̄t̄Z w̄K̄Ov̄ ēv̄o ev̄
WM̄t̄bi gZ j v̄t̄M Zv̄B Gi b̄v̄g mācWMb| j ȳ , t̄Mv̄j w̄c̄, mv̄v̄, nj̄ȳ , Av̄B̄t̄f̄v̄x, ḡv̄t̄R̄Uv Ges
GB dt̄j v̄ ēt̄Ȳp̄ Av̄t̄i v̄ Āt̄bK w̄ḡ. dj̄ nq GB mācWM̄t̄bi| GB DwM̄c i eȲc̄baF̄YKvix
Rx̄b dt̄j vi Am̄uȲc̄KUZv †` Lv̄ †` q etj B GZ eȲ%Zix nq ev̄ ḡv̄t̄gi K̄v̄ dt̄j v̄ īt̄b ax̄i ax̄i
c̄w̄v̄i nt̄j v̄| GB DwM̄c i w̄K̄Oz̄w̄t̄kI `en̄k̄t̄ōi Rb̄ tm̄ mevi t̄P̄t̄q Av̄j v̄v̄| GB mācWMb ī aȳ
īt̄cB bq̄, †`b̄l̄ Ab̄ †` i t̄P̄t̄q GK av̄c̄ ḠM̄t̄q| Av̄R GB dt̄j i M̄QUv th KZ KZ M̄t̄eȲv̄i
w̄Kv̄i Zvi w̄nt̄me t̄bB| †R̄t̄b̄iU. t̄W̄t̄f̄j ctḡU, ev̄q̄t̄K̄gK̄v̄j Gi Rb̄ c̄l̄q GK kZv̄āx āt̄i
GB mācWMb nt̄j v̄ M̄t̄eȲv̄i M̄b̄uCM| īt̄b̄Z Av̄ðhRbK ḡt̄b nt̄j i GB DwM̄c i nek̄Uj i gZ

cRbtb mPig nvBieW AvtQ| eugj tivtM, wj fvti i mgm̄vq -wf©tivtM GgbIK wJDgvi
wKrmvq Gi fngKv itqtQ| Gi GiUgiBtjuweqvj tc̄cnu©c̄wbZ| GiUI w tWU Gi
Dcw-iz AvtQ etj Rvbv hvq |



I, ej v nqib, tcw itdiyj bvfim mw÷tg möcWMb Gi KvhRwi Zv cwi j wZ nqtQ| möcWMb
Gi K_v gv_vq Njvi Kvi tY gvtgi Ktm th KLb tkI ntq tMQtj v eS‡ZB cwi nb|
Zte hvq tnvK bv tkb w b tkI GZIKOz ,bv,b _vKv m‡Ej AvR Rwb bv etj i agv† e‡Y¶
eenvti i Rtb B evMv‡b GB möcWMb Gi RvqMv tg‡j |

emtši evZv@btq cj v k dj

‡gwni§ mnii K nmvb

Dw™c neÁvb nefvM, XvKv nekje` vj q

nk¶veI 2017-2018

‡QvU tej vq GKv b fvBtqi mv‡_ t÷Wqvtg M‡qWQj vg| ‡÷Wqvtgi tM‡Ui cv‡kB GK
Pgr‡Kvi dj ‡‡LWQj vg, bvq RvbZvg bv Z‡e L‡ fv‡j v tj ‡M‡Q‡j v| dj ,tj v ZvB n‡KQ‡K‡otq
evmvq wb‡q M‡qWQj vg| Av‡§j ‡‡L e‡j †‡j v cj v k, tKv_v t_‡K wb‡q Avmj v| GB‡Zv cj v k
mv‡_ c‡g c‡i Pq| mK‡j i GK c‡i PZ dj cj v k|

%ÁvbK bvq: *Butea monosperma*



GB k‡Zi metP‡q AvK1‰q i‡c cj v k| emtši evZP evnK| dj ,tj v hLb M‡Q _v‡K M‡Q
†‡L g‡b nq thb tm S‡K S‡K AmsL M‡j Z tmvbvi Aj sKvi ct‡i Av‡Q| wb‡R‡K mn‡R‡q
Z‡j ‡Q Ac i‡c mv‡S| i ayZvB bq, tm Zvi Aj sKvi mevi gv‡S nevj tq w ‡"Q wb‡v‡avq|

GB tmB cj v k hv‡K n‡ti i‡PZ n‡q‡Q mn‡m‡Kv‡, M‡, Dcb‡vm| GB tmB cj v k th n‡Kbv mv¶lx
n‡q Av‡Q AM‡YZ Bi‡Zn‡mi| n‡tZv tmB Bi‡Zn‡mi Rj Š-A‡M‡e evntc‡KvK K‡i et‡j B AvR
Zvi GB i‡c|

cj v̄k Gi B‡KvbgK f̄yj | Kg b̄q | cj v̄ki ēmea ēenvi ītq‡0 | cj v̄k Gi cvZv t_‡K ī i“
K‡i KvÛ, evKj GgbwK Gi t_‡K wM‡ AwvI ēeÜZ nq | cj v̄k dj t_‡K wB ^Zix Kiv
nq | cj v̄ki KvÛ t_‡K fvj g‡bi QvB cvl qv hvq | cvk‡Zx‡` k fvi‡Z tM‡j nqZ GB
cj v̄ki cvZvq Lv̄vi tL‡Z cvl qv NUbvI NU‡Z cv‡i | G Qvov, Gi g‡S Uvbb, tivRb Gi
gZ gj “evb c` v_‡Av‡Q |

GB tde‡qwi gwm thb cj v̄ki gwm | _‡i _‡i _vK cj v̄k, N‡i N‡i tnvK cj v̄ki AwMgb |

mvK@kPv md i-2018

DwMC weÁvb wefWM, Rvnv/xi bMi wekje` vj q MZ 26 tk btf¤t, 2018 ntZ 9 w b e¤mc 3q ce¤m¤ZK (m¤¤b) tkYxi Qv¤-Qv¤x` i wb¤q fvi Z I fUvtb wkPv mdti i Av¤qvRb Kti b| 5 Rb wkPvK Ges 45 Rb Qv¤-Qv¤xi G wkPv mdti tbZZj t` b Aa¤vcK W. tgvt b¤ Avj g| G wkPv mdti Zviv fvi tZi wkij ,wo, `wR¤s, Rj cvB ,wo, wbDRj cvB ,wo, RqMuI I fUvtbi dj mwj s, w¤uy I cvtivi feKvZ, cOKvZK ebvÂj mn wewfba` k¤xq `vb cwi` k¤ Kti | BiZc¤e¤A¤ wefWM 2002 mv¤j fvi tZi wewfba¤A¤tj wkPv mdti Mgb Kti wQj |



fUvb- evsj vt` k nwBK¤gbvti i Avgšþmu¤g tmšRb¤ mvPvZ



fUvb mdti Qv¤-Qv¤x I wkPvKe¤

fvi‡Zi DËie½ wekþe` "vj tq Rvn½xi bMi wekþe` "vj tqi Dwmc weÁvb wefvMi QvÎ -QvÎ x I wkp|Ke` i mdi

wkp|v md‡i i Ask wntmte Dwmc weÁvb wefvM, Rvn½xi bMi wekþe` "vj tqi 45 Rb QvÎ -QvÎ x I 5 Rb wkp|Ki GKJU cÖZubia `j MZ 4Vv wntm‡t fvi‡Zi Rj cvB, wo tRj vq Aew-Z DËie½ wekþe` "vj tqi Dwmc weÁvb wefvM, wJ mw‡qÝ I ev‡qBbdit‡giU. wefvM cwi` kß Kti | D³ wefvM, wj i wkp|v I MteI Yr KvhpÝg m¤útK° j wJ AewZ nb Ges fwe‡tZ D³ wekþe` "vj tqi Dwmc weÁvb wefvMi mw‡_ MoU Kivi e‡c‡ti Av‡j vPbv K‡ib| QvÎ -QvÎ x I wkp|Kiv D³ wekþe` "vj tqi DNA j ve, mm‡UngiU. j যাৰ, জাৰ্মানRg tm>Uvi, wJ Mw‡WØ I wekþe` "vj tqi wbR^-^ebiÂj cwi` kß Kti wefbæl tq ev-e Ávb j vf K‡ib|



fvi‡Zi DËie½ wekþe` "vj q cwi` kßb wkp|Ke`

tevUwbK`vj tmmvbvU KZR Aa"vcK W. tgvt Avej nvmvb Ut÷ dvtÛi ev‡E j vf

Rvn½xi bMi wekþe` "vj q Dwmc weÁvb wefvMi 2017 mw‡j i -wZK (m¤‡b) Povš-ci wkp|vq mteP 3.89 CGPA tc‡q cÖg -wb AmaKvi Kivq tgvt kwn`v LvZb Aa"vcK W. tgvt Avej nvmvb Ut÷ dvtÛi ev‡E j vf Kti | ev‡E eve` 5000/- (cIP nvrvi) UvKvi tPK wefvMxq Abþv‡bi gva"tg n-všt K‡ib fvi cÖB wefvMxq mfvcwZ Aa"vcK W. tgvt bj g | Ab"vb wkp|Ke` |

Øeysj v` k GKvWig Ae GMIKvj Pvi Ó KZR tMñi tgWj cÖB



cÖdmi W. tgvnva§ Kigvj tnmvBb
Bbw÷NJDU Ae dñi w÷³GÜ Gbfvqi bfgvUj mvfqtYm

W. tgvnva§ Kigvj tnmvBb PÆMög wekje` vj tqi DwMC weAvb wefWM n‡Z 1980-1981 tmktb h_vjtq we.Gmim. (m¤yb) Ges Gg.Gmim. cÖg tkvxtZ cÖg n‡q WMö j vf Ktib| 1984 m‡b evsj v` k eb MteI Yv Bbw÷NJDtUi wñj wfKvj Pvi wi mvP®wefv‡M MteI Yv KgRZ® mnmté KgRxeb ii" Ktib| 1989-1992 mv‡j KgbI tqj _ -j vi kxc wb‡q hy® iv‡R'i GevW® wekje` vj tqi dñi w÷³ wefv‡M wCGBP.W. Ktib| 1993 mv‡j Bbw÷NJDU Ae dñi w÷‡Z mnKvix AaÜcK mnmté thwM`vb Kti 2001 mv‡j GKB Bbw÷NJDtU cÖdmi mnmté ct`vbaZ j vf Ktib| 2002-2003 m‡b Aver‡iv KgbI tqj _ tcv÷W‡vivj td‡j vkcic wb‡q hy® ivR' Mgb Ktib|

B‡Zigta" W. tnmvBtbi 152 NJ MteI Yv cÖÜ t` kx/we‡` kx Rvb‡j cÖKwKZ nq| GQvor cÖq 44 NJ cÖÜ Kbdv‡iÝ cÖmws/eB AaÜvq Ges 12 NJ eB hMfvté/GKKfvté cÖKwKZ nq|

e¶l MteI Yv, msi ¶Y | D™eb we‡q G chS-4 Rb wCGBP.W., 63 Rb Gg.Gm./Gg.Gmim. I 102 Rb m¤yb tkvxi Qv†/Qv†x‡` i w_mmm/cÖR‡ tccv‡i i ZEyearqK (m‡vifvBRvi) mnmté eb weAv‡bi wefv‡b we‡q MteI Yv KvR m¤ubœKtib| e¶l MteI Yv, msi ¶Y | D™eb msjuvŠ-Kv‡Ri -KwKZ -‡fc 2014 mv‡j Øe¶‡iv‡b cÖvbgšxi RvZxq cj -viÓ j vf Ktib| ebweAv‡bi wefv‡b kvLiq RvZxqfvté Ae`v‡bi Rb" 2018 mv‡j Øeysj v` k GKvWig Ae GMIKvj Pvi Ó KZR tMñi tgWj j vf Ktib| W. tnmvBb eZg‡b evsj v` tki wecbœq e¶l cÖRwZ AbjñÜvb, dj /exR msMö Ges Pvi D‡Evj ‡bi gva‡g PÆMög wekje` vj q Kv‡v‡u‡m msi ¶‡Yi Kv‡R wb‡qvwRZ Av‡Qb| evsj v` k Kwl MteI Yv KvDwY‡j i mnvqZvq W. tnmvBb eZg‡b wecbœcRwZ | e¶l exR msi ¶YMi MV‡bi Kv‡R wb‡qvwRZ Av‡Qb |