

द्वैमासिक

कृषि

; Dkfs d08n

; Afs
ho dsG vgn

kpf; Dkfs
07/ k; fb l/hfn

j/i7 ; Dkfs
j\$07 clwsf/L

; Dkfs
; ug zdf{kl08t
; kgf af:tfhf

krfj
cgk zdf{k8h
bj/fh ufL
; zIn clwsf/L

5kf0lj t/0f
; kgf af:tfhf
efhgfy kf8h
lx/f 9^auh
zDe'ykf

— ; Dkfslo —

efb|cfZjg dlxgdf klg sffsx? cG
dlxgf h:t}v}af/ld}ljleG s}if sddf
Jo:t e0{g}/xGg\ cGafnL t/sf/L
kmkm v}Lug}ls; fgnf0{lbG/ft afnL
s; /L/fdf}agfpg}l; Ff0, dn, afnL; Af0f
cfbsf}rf; f}e0/fv\$}f}xG eg}csff{krk
kzkfns ls; fgnf0{cfkm}kfb}cfPsf}
kzkHfsf}s; /L plrt Joj:yfkg ug}
p}kfbg a9fpg}tf} tl/sfx? / /f}a6
aRg}pkfosf}vf}Le0/fv\$}f}xG . To; h}
; fgf-ltgf b}v lnP/ hl6n ; d:ofsf}
; xfotfsf}nflu s}if; F ; DalGwt ; /sf/L
tyf u} ; /sf/Llgsfo s}fssf}; d:of xn
ug{t}k/ /x\$}f xGg\
To:t}uf0{e}kfnGdf vf}t, Fofut,}r/r/}
k6s,}ygnf}af}k, ; fn c8sg}; d:of,
ue{tlxg}; d:of h:tf ljleG ; d:ofx?
b}vg ; Sg}xgn}To:tf ; d:oftkr{sffsx?
ahfd}; r}t xgk5{. ahfavt v}k nufpg}
/ /fdf}x}rfx u/df p}kfbg klg /fdf}xg}
/ ltgaf6 hGdg}afR5f÷afR5L, kf8f÷kf8L
klg :j:y xg}xGg\

n̄yx? k7fpbf Wfg lbg' kg{s'/fx?

!= o; klqsdf hf]sf]In]k7fPsf]gkfnL efiiddf n̄yPsf]s]if klj lw uX0fdf xfl; n cgejhG n̄ynf0{:yfg lb0g]5 . ; fy}s]if lj sf; df 6jf klg]; fdfhs cfly\$ klfsf] ljZnif0ffds /rgfnf0{klg plrt :yfg lb0g]5 .

@= pkofhLcgbIt n̄ynf0{klg :yfg lb0g]5, t/ dh n̄yssf]gfd / lsfasf]gfd klg pN̄y ePsf]xgkb\$. cfw/ ln0Psf]n̄y eP ; f]klqsf jf lsfasf]gfd klg pN̄y ug{kfb\$.

#= n̄yssf]gfd, kb, cfkmsfo{t sf0fo / 7hfgf :ki6; H pN̄y xgkb\$. sfNkgs gfdaf6 5kfpq rfx]hgfpq'kb\$.

\$= n̄yx? k7fpbf kl]t kfb -!^ k0G_ df 6f0k ul/Psf]/ rf]/t/ !÷! 0G 5f] n̄ysf] k\$ / x]La9ldf !%)) zAbdf n̄yPsf]xgkg\$ / ; f]n̄ynf0{s]if ; r'gf tyf ; f/ s]b\$]0G]n̄y agroinfo@wlink.com.np df k7fpg jf cfk]cf/ klq ; DalGwt zfvdf aefpg ; lsg\$.

%= n̄ynf0{pkoQmkrf]k7fPdf ltgnf0{; d] ; dfj z u/L n̄yx? k\$flzt ul/g\$.

^= n̄ysn]n̄y k\$flzt eP jkt kfpq]kl/>lds n̄y k\$flzt ePsf]Ps jif]leqdf ln0 ; Sg' kb\$.

&= o; klqsdf k\$flzt n̄yx?sf]cfEs jf k0{efu hf]sf]In]klg k\$fzg ug{kfpq\$, t/ klqsfnf0{; Gbe{; fdfu]sf]kdf lgb]6 ug{cg/fw ul/G .

*= k7f0Psf n̄yx? 5fg]g5fg]j f s]Lkl/dfhg u/L5fg]; Dk0{clwsf/ kwfg ; Dkfsdf lglxt /xg\$ / dfly pN̄y]t dfkb08 k/f gePsf]n̄y 5fg ; Dkfs d08n afW xg] 5g . ck\$flzt n̄y lktf]lbg ; Dkfs d08n afW xg]5g .

n̄yx?sf]k\$ / / kl/>lds

!	d]ns cWog / cg'; Gwgsf]glthf / vf]hsf]cfw/df s]if lj sf; sf]lj leG klfd ; xof] kYofp]n̄y	!@) -!^))
@	; Gbe\$]cfw/df tof/ kl/Psf]n̄y	!)) -!@))
#	cgej Pj +; kmtfsf]cfw/df tof/ kl/Psf]n̄y	*)) -!))
\$	h]6-P / a9Lcfd	%) -^))
%	slj tf, s]tkf0hf0{yxf 5 < s]if ult]lw / cG 5ff n̄yx?	#) -\$))
^	kl:tsf	!%) -@))

o; klqsfndf k\$flzt n̄y, /rgf cfb]sf]ljifo tyf lj rf/x? n̄yssf]lghLxg]ePsf]h] o; df ; Dkfs d08n tyf s]if ; r'gf tyf ; f/ s]b] hjfkm]L xg] 5g .

ljifo ; lr



kz' cxf/df 8fn]3fFsf]pkofh

o; sf/0fn]cflgk5{slij cg' Gwfg, k; f/ / k7gkf7gnf0{Pp6}5ftfn]

:yfglo >ft s[sssf]kxrfg, ljsf; tyf kl/rfng

bwdf xg; Sg]slnkndf/]hfgsf/L

👉 kjlfdsf/ ltj f/E*

hfgsf/LM/sf/Lg; {lsf kn0bfx? !S

; x/sf]5t / sfzldf vtL

uf0{kfngsf]dxlj

ufhe\$ afnldf nfg]9; LhG /flx?sf]/fsyfd Pj +goGqOf lalw !(!

👉 zlef 9sfn**

gkfnsf]slij ljsf; \$

gkfndf slij ljsf; %

gkfnsf]slij ljsf; @

lk8fn' ©

slij klalw k; f/df :yfglo PknPd=]8ofsf]eldsf @(!

kmknh / dfgj :jfy #@

slij Joj; flos/0fdf blvPsf]; d:of / ; dfwfg \$

h;6LP=/ a9Lcfd Mslif aldf u/f; #^

kz' cxf/df 8fn]3fFsf]pkofu



gq k; fb j :tE*

8fn]3fF dWkx8Leudf dk / blv hij7; Dd vj f0g]kzcxf/sf]dVo >ft x]. pRrkx8Leudf r/g Ifq kz:t xg]/ kfoMuf0]:tx? r/fP/ kflng]xgfn]a9ldfqdf 8fn]3fFsf] kofu u/\$f]k0g . To:t)t/f0df klg kfnug r; Dd hldg cf]; nf]/lx/xg] uxFtyf bfnafnx? v]df g}xg]xgfn]xl/of]3fF clncn kf0g]xgfn]a9ldfqdf 8fn]3fFsf] kofu u/\$f]k0g . dWkx8LIq hxfdfg; / kz'sf]3gTj a9L 5, sd l; Ff0 le/fnf] huf, sd kfglsf]>ft cflbn]ubf{lxp]sf] ; dodf hldg vfnL/xg]xgfn]xl/of]3fF sd} kf0G / xl/of]3fFsf]?kdf 8fn]3fFdf g}e/ k/\$f]k0G . o; nydf dVo \$ j 6f kff0tTjx? -; Vvf kbfi{ sRrf kff6g, Sofln; od / kmkrf]; _ / Ps gsf/flds tTj -6dfgg-nf0{cfw/ dfgL 5\$ 5\$}8fn]3fF?sf]kz' cxf/df kofu]sf]nflu ljZnif0f ul/Psf]5 . ; Vvf kbfi{eGfn]xl/of]3fFdf ePsf]kfgL s6P/ af]L efunf0{dfgG, ; Vvf kbfi{ a9LePsf]8fn]3fFn]yf]h]klg a9Lkzhf0{ kG, t/ kff0f tTj eg]; Vvf kbfi{a9b} hff 36b}hfg]xG . ; Vvf kbfi{sd ePsf] 8fn]3fF vfgn]slxn]sfxLkzj:tdf 5g] ; d:of klg blvG . 8fn]3fFdf ePsf] gf0G]hgsf]k]tztnf0{^@% n]u0ff ubf{ sRrf kff6gsf]k]tzt cfpF . ; a}gf0G]hgsf] kff6g xffgg\ o; nydf kff6gsf]k]tztnf0{ cfw/ dfgLa9Lkff6g, Sofln; od / kmkrf]; ePsf]8fn]3fFnf0{/fd]elgPsf]5 . sg}sg} cj:ydf eg]kff6g, Sofln; od, kmkrf]; gsf/flds tTjx? h:t}6ofgg, hllgg cflb; F

af0G -hff8P/_ a; \$f]xG h; n]ubf{kzh] lng kfpbg . oLtg tTjx? bw lbg]hgf] / xsb}u/\$f k8f k8L, kf7f kf7lsf]nflu clt cfjZos xG lsgsLbwdf oLtg}tTj a9L xG / xsb}u/\$f k8f k8L, kf7f kf7lsf] x88L dhjb agfpg Sofln; od / kmkrf]; clt cfjZos xG . o; nydf yf]}dfqdf nyssf]cgej, 8fn]3fFj f/|b|]; gsf s/fx? / kzj:t'sf vj fP/ x/\$f]cfw/df ljZnif0f ul/Psf]5 .

sfe] (*Ficus lacor*)
 sfe]lxp]bdf kft emg]/ r; j zfvdf goff knj f cfp]8fn]3fF x]. sfe]tg lsl; dsf xGgMnx/]sfe] /ft]sfe] / ; t]sfe]. nx/]sfe] / ; t]sfe]sf]?v 7hf]xG t/nx/]sfe]sf]eg]Tolt 7hf]xG . kx8, j jL / 6f/x?df af]sf]5p5fp, uN]sf]j l/k/, v/af/Lcflbdf sfe]sf]?v nufpg]rng xG h:n]ubf{v]Idf ; k nfg (Shading effect) sd xG . sfe]sf]?vdlg v]L/fdf]xG . o; sf]k; f/Of alp (sexual propagation) / sl6E (asexual propagation) bj af6 xG . ; fw/Of0fMc; f/ >fj 0df o; sf]x]sf] sf6] ; fg]rng xG . h:n]ubf{\$-% j ifkl5 g} 3fF sf6g ; lsG . sfe]bfp/f, 3fF / kf6 -/} f df kofu xG . xff 7hf]7hf]xg]xgfn] 3fF sf6kl5 kz'j:th]gv]Psf]x]sf] bfp/fdf kofu xG . o; sf]7hf]x]sf]af6 kf6 sf9] kz'j:t'af]b]b]df] g]df]/ 8f]L agfpg] rng 5 . xp]F; lsPkl5 ; Vvf v8]ldf knj f cfp]xgfn]xl/of]3fF gePsf]; dodf w}]

/fd] 8fn] 3fF bW lbg]kz'sf]nflu kof]u
ul/G . w}slnnf]f 3fF sf6bf ; Wf kbfiy{
sd b]vg]/ ; Wf kbfiy{s]cfw/df @) -@!
kl'tzt qif8 kff6g b]vPsf]klg 5 . slnnf]f
3fFsf]kof]u xg]xgfn]6dflggsf]-6/f]kbfiy{
dfqf sd xG / kzh]va dg k/fpF t/
kft l5lk}uPkl5 kzh]Tolt /fd] F dg
k/fpFgg\ sfe]sf]8fn]3fF r]b]v h]7; Dd
pknAw xG . slnnf]f kzh]a9Ldg k/fpg]
xgfn]skn]sfla9LvPdf ckr (impaction)
xg]xG . To; sf/of k/fn / sfe]sf]8fn]
3fF -@M sf b/n]vj fpF bW klg /fd] F
cfpg]kf8f, afR5f, kf7f, kf7L/fd] F xs'g]
xG . kxf8sf]tNf]efu, a}L/ 6f/x?df
; Wf df}ddf xl/of]3fF sd ePsf]; dodf
sfe]3fF w}]/fd]xG . Pp6f bxgf e}L,
xn uf? / @\$ j6f afv] king ug]ls; fgn]
\$-% j6f sfe]sf]?v xs'fpg ; s]df kz'
cfxf/fdf lgs} ; lhnf] xG . kof]uzfnf
k/IfOfaf6 #@## kl'tzt vWf kbfiy{(dry
matter), !)-!@ kl'tzt sRrf kff6g (crude
protein), @@& kl'tzt SoflN od,)@)-@^
kl'tzt kmkrf]; / !=) \$ kl'tzt 6dflgg
(Tanin) sfe]sf] kftdf kfOPsf] 5 .

vG"(Ficus cunea/semicoedata)
dW kxf8L If]df af/Isf]sf]nfdv vG"w}
/fd]kfOPsf]5 . vGh'f0{sg}7fpFf vgfof]
/f0{vG"cf]b eG]ul/G . o; sf]k} f/of
alpa6 g}xG . klx/f]uPsf]7f]df r/f]sf]
ljifaf6 pdg]xgfn]jg]sf]Tolt ce]j x]g .
t/ #- \$ jif{hlt /fd] u xpFdf hldg vfnL
ePsf]; dodf ; fg]af]nf0{6}f ; lxt af/
aGh u/] xs'fpg]rng xG . ; ah; f]8fn]
3fF hldg vfnLePsf]; dodf o; }sl; dn]
; AfOf u/] xs'fpg /fd]xG . vG"; bfaxf/
xl/of]e0/xg]8fn]3fF ePsf]xgfn]sft]sb]v

h]7, c; f/; Dd kzhf0{vj fpg]rng 5 .
afv] kfngsf]nflu of]8fn]3fF clt g}
pkof]uL xG . To:t}hf]g]uf?, yf/f uf0{
e}L, kf8f kf8L cf]bsf]nflu w}]/fd]8fn]
3fF xf]. bxgf uf0{e}Ldf Tolt bW p]kfbg
ga9g]xgfn]bxgf afx]nf0{vj fpg]rng
klg 5 . vGsf]kftdf #@-#\$ kl'tzt ; Wf
kbfiy{!!-!@ kl'tzt sRrf kff6g, @%/% ktzt
SoflN od,)=(kl'tzt kmkrf]; / @\$*
kl'tzt 6dflgg ; Wf kbfiy{s]cfw/df kfOPsf]
5 . vGsf]klg 8fn]3fF, bfp/f / kf6 -/} f
df kof]u xG . jif]sf] b0{ rf]L
-sft] / c; f/_ df kfyLvGsf]km nfg]
u5{. kfs]sf]km dflg; n]vfg]rng klg 5
/ clt ld7f]xG . vGsf]bfp/f w}]/fd]
xG . ; Wf kbfiy{a9Lxg]xgfn]yf]}3fFn]
klg w}kzx?nf0{k/fn; F ld; fp/ vj fpg
; lsG . vG"dW kxf8Le]df /fd]xG t/
lxdfnLeu / ; Wf 6f/x?df vG"/fd] F
km6fpg .

6f]L (Bauhinia purpurea)
6f]LPs g/d kftePsf]bWfn'kzx?sf]nflu
/fd]sf]8fn]3fF xf]. ; ah; f]7fpFf 6f]L
g}eg] lrlgG . of]8fn]3fF dW kxf8b]v
a}L, 6f/x? / leqLdw] cf]b ; a}7fpFf
kf0G . o:sf]k} f/of alpa6 g}/fd]xG
alp ; fe]nrxf]sf]7fpFf /k]klg xG /
k]nlygsf]y]df] pdf/] g; {ldf Ps jif}
xlsPkl5 af/Isf]sf]nf, v]sf]5p5fp cf]bdf
; fb{/fd]xG . of]8fn]3fF alp /k]sf]@-#
jif{leqdf g}xf]f sf6} kzhf0{vj fpg
; lsG . dl'nf]7f]df l5\$}xs'g]xgfn]w}
jif{sl//xg'kb} . of]8fn]3fF ; a}df} ddf
vj fpg ; lsG t/ cf]Zjgb]v kfu]g; Dd
xf]f sf6} vj fpF 3fFsf]?vnf0{klg c; /
gkg]/ ; Wf kbfiy{klg a9Lkl'tzt xg]xgfn]

c? ; dodf gsf6g'g}/fdf]xG . ev{ AfPsf kf8f kf8L, kf7f, kf7L, afR5f, afR5Inf0{3fF vfg]afgLa; fpg of]8fn]3fF vj fpg]ul/G . bWfn'e}L, uf0{/ ev{ AfPsf dfp afv]sf] nflu of]Ps clt pQd 8fn]3fF xf]. o; sf] kftdf !\$-!& kltzt; Dd j hf x/Ls\$ klf6g -sRrf klf6g, SoflN; od @\$ kltzt / kmkrf];)#) kltzt, ; Vv kbfy{##-#\$ kltzt / 6dfgg (Tanning) !-@ kltzt ; Vv kbfy\$]cfw/df kf0G . klf6g / SoflN; od a9LePsf]xgfn]x's}u/\$f kf7f, kf7L, kf8f, kf8Lsf]nflu / ngf]e}Lsf]nflu of]8fn]3fF / k/fn ld; fP/ vj fpbf /fd]bW pTkfbg xg / x's}u/\$f kf8f, kf8L /fd] f x'sg] xG . of]8fn]3fFdf vf; }To:tf]ckfRo tTj 5g / lxp]sf]; dodf vj fpbf ; d:ofx? sXL cfpbg .

a8x/ (*Artokarpus lakucha*)
 a8x/ gkfnsf]dW kxf8L efub]v leqL dw] ; Dd kf0G]8fn]3fF xf]. o; sf]kft afSnf]/ a9L; Vv kbfy{xg]xgfn]a9Lcf]8nf] 8fn]3fFsf]?kdf ln0G . df} d / x'sg] ; do cg! f/ o; 8fn]3fFsf]kftdf #) -## kltzt; Dd ; Vv kbfy{(dry matter), !-!\$ kltzt; Dd sRrf klf6g, @ kltzt; Dd SoflN; od /)-@& kltzt kmkrf]; /)-%& kltzt 6dfgg (tannin) kf0G . a8x/sf]agf{ x'sfg / alp pdfg{Tolt ; lhnf]5g . To; sf/0fn]ubf{of]8fn]3fF /fd]ePkg Tolt w}}7fpbf blvb} . a8x/sf]agf{x'sfpgsf] nflu kfs\$]kmaf6 alp lgsfnL t?Gt g} dlannf]df6f]e/\$f] knli6s yhfdf /fkL xfvk5{ laof, s}k5 o:sf]pdg ; Sg]zlst 36b}hfG . agff0{ahf ahdf kfgLlbP/ lztn 7f]df /fvk5{ Ps jifg; {ldf agf{ x'sf]kl5 af/Isf]sfGnf tyf vfnL 7f]df

; fgk5{ . ; f/kl5 klg ljzif Wfg glbP of] 8fn]3fFsf]agf{x'sg ; Sb} . agf{; f/\$f] \$-% jifkl5 dfq o; 3fFsf]x'f] sf6g ; lsG . of]8fn]3fFsf]v}Lafnldf Tolt ; k (shedding effect) 5g . of]Ps kten8 lsl; dsf]8fn]3fF xf]/ o; sf]x'f] sft\$blv kfuq; Dd sf6g ; lsG . ngf e}L/ bWfn' uf0\$]nflu k/fn; f ld; fP/ vj fpbf bW / l3p pTkfbg /fd]xG . ; a}h; f]8fn]3fFdf 6dfgg (Tanin) eG]6/f]kbfy{xG / a8x/sf] kftdf klg of]ckRo kbfy{xG t/ Tolt a9L gxg]xgfn]bW pTkfbgdf vf; }c; / ub} . 6dfgg -6/f]kbfy{ % kltzt; Dd ; Vv kbfy\$]cfw/df xbf s}Lc; / xbg t/ % kltzt eGf a9LePdf kzhf0{vj fpbf -nfd]; do; Dd bW pTkfbgdf sdLxg]/ bAnfp}hfg]xg ; S5 .

s6ld/f] (*Litsea poliantha/monopotela*)
 s6ld/f]Pp6f g/d kft / 8fF ePsf](Softwood) 8fn]3fF xf]. of]3fF gkfnsf]dW kxf8L efub]v leqLdw] ; Dd af/Isf]sfGnf, v}af/Isf] 5p5fp cflbdf nuf0G . s6ld/f\$]kft dl; gf x'f] lawf ; j}kz'j:th]v} dg k/fP/ vfGg\ of]8fn]3fFsf]kftdf !\$-!^ kltzt; Dd sRrf klf6g, ; do / knj fsf] cj:yf cg! f/ #) -#\$ kltzt; Dd ; Vv kbfy{ !-^ kltzt SoflN; od,)-#\$ kltzt kmkrf]; / @ kltzt 6dfgg (Tannin) kfOPsf]5 . bW lbg]uf0{e}L/ uf? cflbsf]nflu of]/fd] 8fn]3fFdf k5{. b0{ltxf0{efu k/fn / Ps ltxf0{efu s6ld/f]ld; fP/ vj fpbf bW pTkfbg /fd]xG . 6dfgg (Tanning) eG]6/f]kbfy{ o; 8fn]3fFsf]gofEknj fdf a9Lxg]xgfn] nfd]; do; Dd s6ld/f]dfq vj fpbf lk; fj sf] /u /ftf]xg]klg blvG . To; }sf/0fn]8fn] 3fF dfq glb0{k/fn; f lb} xl/of]3fFsf]

art klg xg]/ pTkfbg klg /fdf|xg|xgfn]
s6ld/f|cyjf c? 8fn]3fF dfq gln0{k/fn,
gn, ds\$|vf]6f cflb ld; fP/ vj fpg /fdf]

xG . s6ld/f\$|k; f/Of alpaf6 g}/fdf|xG,
alp g}rflxPsf]7fpdf /f|g]cyjf g; {ldf
agf{x\$|f/ agf; fg|ubf{k|kg xG . agf;
; f/\$|@# jifdf g}xfdf sf6g ; lsG, of]
8fn]3fF l5\$}x\$g]/ af/ldf ; k (sledding
effect) klg sd xg|xgfn]af/lsf]sfGnf /
5p5pdf nufpbf /fdf|xG .

x/f| - *Terminalia chebula*

x/f|Ps s8f sf7 (Hard wood), af\$nf]kft,
; Wf kbfi{\$#-\$^ kltzt; Dd ePsf]8fn]
3fF x]. of]8fn]3fF dW kxf8Leublv
a]L; Dd kf05 . o; sf]kftdf &-!% kltzt; Dd
-kfn]sf]cj:yf / ; do cg! f/_ sRrf klf6g
kf05, To:t}SoflN od !@S kltzt, kmkrf;
)@& kltzt / 6dfgg eG]6/f|kbfi{!#
kltzt; Dd kf0Psf]5 . x/f|hff]g]uf?, yf/f
uf0{ e}L, afvf cflbnf0{k/fn; F ld; fP/
vj fpdf /fdf|xG t/ bW lb|hgj/f?sf]
nflu 6dfgg (Tannin) a9LePsf]xgfn]Tolt
/fdf|xG . x/f|dfq nfd]; do; Dd vj fpdf
bW pTkfbg 36b}hfg] kz' bAnfpbf]hfg]/
kl5 ynf kg{k|kg b|vG . To; sf/Of b0{efu
k/fn / Ps efu x/\$f|x/of]8fn]3fF vj fpg
/fdf|xG . kftdf 6dfgg (Tannin) a9LePsf]
xgfn]of]8fn]3fF r; Dd klg xl/of]/xG
/ kftdf sL/f klg nfbg / bVbf xl/of]lrNf]
kft b|vG . o; 8fn]3fFsf]k; f/Of alpaf6
g}/fdf|xG . s8f sf7 / a9L6dfgg ePsf]
xgfn]ls/f gnfuLo; sf]la?jf /fdf] F xlsG .
\$-% jifdf dfq xfdf sf6g ; lsG . kfs]
em\$|alp, uf0{j:t' afvfn]vfP/ uf]/af6
klg alp pdg|xgfn]vf; }g; {LJo:j:yfkg

u/\$f]klg b|vb, pldPsf]7fpdf ; AfOf
ul/lbPdf x/\$f]la?jf xls\$ln5 . afofdf;
(Biomass) a9Lxg]/ a9L ; do; Dd xl/of]
a:g]kftdf sL/f k\$S}gnf|g|xgfn]bW lb|g]
kz'eGf c? kzx?sf]nflu Ps ltxf0{efu
k/fndf ld; fP/ lxpPsf]xl/of]3fFsf]sdlnf0{
klt{ug{x/f|/fdf]g}xG .

j/f| (*Terminalia belerica*)

j/f|klg x/f|h:t}6/f|kbfi{kftdf a9LePsf]
7hf]j lf xg]8fn]3fFdf k5{. of]8fn]3fF dW
kxf8Leublv t/f0\$|hndf klg b|vG
; lsG . x/f|h:t}a9Lafofdf; (Bio-mass)
pTkfbg xg|xgfn]@-S j6f?v sffsx?n]
nufpg]u/\$f]kf05 . o; sf]kft x/\$f]eGf
l5\$}emg]/ sL/f klg cln a9Lnf|g|xgfn]
sf]Q\$blv df3; Dd xfdf sf6/ kz'j:t}hf0{
vj fpg ; lsG . of]8fn]3fF kz'j:t}Tolt
dg k/fP/ vfbgg\ bxgf uf0{e}LeGf c?
yf/f] hf]g]uf? cflbnf0{k/fndf Ps ltxf0{
ld; fP/ lxpPsf]; dodf xl/of]3fFsf]klt{
ug{; lsG . kofuzinf k/If0af6 o; sf]
kftdf !!-!@ kltzt; Dd sRrf klf6g, #S-#%
kltzt ; Wf kbfi{(dry matter), #-#% kltzt
SoflN od,)#& kltzt kmkrf; / 6dfgg
(Tanning) !@-\$^ kltzt b|vPsf]5 . a/f\$|
j lf 7hf|xg|xgfn]afnlgfnldf ; k a9LxG .
v/af/L, vt]sf]5p5fp / jgj6dfgd a/f]
nufpg]rng xG . csf]kIf eg\$|o; sf]
xfdf]j uf a9Lxg|xgfn]bfp/fsf]?kdf a9L
kof] xG / klg{/ cflbdf klg a/f\$|sf7
kof] xG . a/f\$|klg alpaf6 g}k; f/Of
xG / ; lhn} F la?jf xlsG . t/ ^-&jifdf
dfq xfdf sf6/ kz' j:t}hf0{ vj fpg
; lsG . a9L6dfgg ePsf]xgfn]SoflN od
a9LePklg bWfn'kzh]a/f|vfPsf]ahdf
bW sd lbG . 6dfgg]SoflN odnf0{af08

(bind) ug{xgfn] o:tf] xg uPsf] xf] .
 sfQ/fnf] (*Bauhinia variegata*)
 6fLsf]h:t}kft blvg.] dW kxf8blv t/f0sf]
 hæn; Dd 7hf]j [fsf]?kdf sfQ/fnf]kf0G .
 o; sf]kfn / sf]knf t/sf/L/ crf/df kofh
 xG . sfQ/fnf]sf]kftdf #%-#* kltzt; Dd
 ; Wf kbfy{ !#!\$ kltzt; Dd sRrf kff6g,
 !^ kltzt SoflN; od /)=#\$ kltzt
 kmkrf]; kf0G . xlf{6fLh:t}blvPklg
 6/f]kbfy{(Tannin) a9Lxg]xgfn]kz'j:th]
 /fd] dg k/fP/ vPsf]blvb} . xl/of]3fF
 sd ePsf]; dodf cflZj gb]v kfj; Dd
 sfQ/fnf]sf]xhf sf6] bxgf uf0e}Inf0eGf
 yf/f]uf0e}L hf]g]uf? cflbnf0{k/fn; f
 ld; fP/ lbf /fd]xG . x/f] a/f] sfQ/fnf]
 6dfgg (tannin) a9LePsf 8fn]3fFx? xg\
 . sfQ/fnf] SoflN; od / kff6g /fd]dfqdf
 blvP klg 6dfgg]af08 (bind) ug{xgfn]
 kz'j:th]kff0f t] /fd] f lng kfpbg\
 6dfggsf]c; / 36fpg ; s] Dd kft sd
 15kbf 8fn]3fF sf6g] k/fn / c? e0\
 3fF; f ldnfP/ vj fpg]ug{; lsG . h; n]
 ubf{6dfggsf]c; / sd xg hfG . kftdf
 6dfgg a9LePsf]sf/0fn]sfQ/fnf]afk
 klg ; lhn}xsG t/ 7hf]j [f xg]xgfn]xlg
 ; do a9Lg}nfg]xG . ; fw/Otof ^-&jif
 kl5 dfq 8fn]3fFsf]?kdf sfQ/fnf]sf6g
 ; lsG . 7hf]j [f xgfn]o; sf]pkofh klg/
 bfp/f, km sf]knfa6 t/sf/Lcrf/df klg
 kofh ug{; lsG .

baba] (*Garuga Pinnata*)
 baba]g/d sf7 ePsf] l5\$}xlg] dW
 kxf8blv t/f0{ Dd xg]8fn]3fFdf k5{.
 o; sf]k; f/Of xhf sf6] (cutting) ug{; lsG .
 Ps 8) ld6/ nfd]xhf sf6] ; f]rflxPsf]
 7fP uf8bf baba\$]?v xlg . o; sf]
 afnlgndf ; k klg xg / hg; s}kzh]klg

/fd]dg k/fP/ vfG . kofhznf k/If0af6
 baba\$]kftdf #)-## kltzt ; Wf kbfy{
 !!-!@ kltzt sRrf kff6g, @-!% kltzt
 SoflN; od,)=#% kltzt kmkrf]; / @-^
 kltzt 6dfgg blvG . kff6g / SoflN; od
 /fd]xg]/ 6dfgg sd xg]xgfn]kzh]va
 dg k/fP/ baba]3fF vfGg\ t/ o; sf]
 kftdf 6dfgg sd ePsf]xgfn]l5\$}kft
 sLfn]vfg]/ emg]xG . babj]Ps jif b0\
 k6s; Dd 8fn]3fFsf]?kdf sf6g ; lsG .
 cflZj gb]v dk; /; Dd Ps k6s / csf]k6s
 jzfvblv c; f/; Dd xhf sf6bf /fd]xG .
 jif PsrfLdfq xhf sf6bf xhf 7hf]xg]
 / kft cyj f xl/of]3fF sd xg]xgfn]jif
 b0{k6s 8fn]3fF sf6bf /fd]xG . baba\$]
 c? afndf Tolt ; k gnfg]xgfn]vaf/lsf]
 sfGndf /fd] f nufpg ; lsG .

lgdf/f] (*Fucus roxbourghi*)
 lgdf/f] Ps 7hf]kft xg]8fn]3fF xf]/
 o; sf]k] 6 pRr kxf8blv dW kxf8; Dd
 xG . j}L/ leqLdw] cflbdf Tolt blvb}.
 g/d sf7 ePsf]xgfn]; fgf ; fgf xhf lj uf,
 kft ; a}kzh]dg k/fP/ vfg]u5g . lgdf/f]sf]
 kftdf @\$-@ kltzt; Dd ; Wf kbfy{ !\$-!%
 kltzt sRrf kff6g, @&(kltzt SoflN; od,
)=@\$ kltzt kmkrf]; / @-(^ kltzt
 6dfggsf]dfq blvG . bxgf, yf/f] hf]g]
 uf? cflb ; a}kz'j:th]/fd] dg k/fP/
 vfg]xgfn]Ps lxf0{k/fn; f ld; fP/ vj fP
 /fd]xG . cflZj gb]v krfug; Dd lgdf/f]sf]
 8fn]3fF sf6g ; lsG . o; sf]k; f/Of alpa6
 g]/fd]xG . t/ khfth l6:o'sN/ (Tissues
 Culture) u/] klg lgdf/f] a8x/ h; sf]alp
 sd xg]/ l5\$}pdf/ zlst 36g]xgfn]lj?j f
 ptkbg u/\$]kf0G . ufpB/df o:tf]klj lwsf]
 kxF sd ePsf]sf/0fn]alpnf0{cyj f kfs\$]
 kmnf0{g; {ldf agf{xsf0}; fg{; lsG .

lgdf/f\$]agf{g; {ldf tof/ u/Laf/l\$]sfnf, 5p5fp cflbdf ; fg{; lsG / /fd]}; Af0f ePdf #-\$ jifdf 8fn]3fF sf6g ; lsG . lgdf/f\$]kft rBf xg]xgfn]ufpE3/df efh et/sf]nflu bgf 6k/Lagf0{kofh u/\$f]klg kf0G .

a\$hf](*Ficus clavata*)

sXL7fpdf a\$hf]/ sXL7fpdf wf8hf]eg] lrlgg]of]8fn]3fF vG'h:t}kft ePsf] xG . vGsf]v sXL7hf]xG eg]a\$hf\$] ?v cln ; fgf] j ; L (bushy) lsl; dsf] xG . yf/]uf0j:t' / afv]sf]nflu of]8fn] 3fF :6n lkdE -uf7df afw] kfg_ sf]nflu /fd]xG . a\$hf\$]kftdf #-#! kltzt ; Wf kbfi{ !^% kltzt sRrf kll6g, !=^ kltzt SoflN; od /)=@& kltzt kmkrf]; kf0Psf]5 . o; sf]pkofh, k; f/Of cflb vG' h:t}xG / gsf/flDs kldf of]8fn]3fF vfPsf]; dodf afv]sf]cfv] aflx/ lg:sG eG]klg 5 .

pk; x/

8fn]3fF kx8Leublv lelq dwzdf c? xl/of] 3fF gePsf]; dodf pufpg]kzx?nf0{vj fpg] ul/G . sRrf kll6g / SoflN; odsf] dfqf 8fn]3fF?df /fd]g]b]vG t/ 6ofllgg, lnlgg / cG cNsfnf0{x?n]ubf{hlt ePsf]kll6g / SoflN; od kzh]lng kf0{fv\$]xbg . o; sf] lg/fs/Ofsf]nflu Ps}lsl; dsf]8fn]3fFdfq nfd] ; do; Dd gvj fpg] cfn]kfn]u/] k/fn / cG 3fF; f ldnf/ vj fpg] kzj :tsf]zfl//ls th cg' f/ lbge/sf]nflu rlxg]-# kltzt ; Wf kbfi{ v'/fs dW Ps ltxf0{efu xl/of]3fF / 8fn]3fF b0{ltxf0{efu k/fn cflb; f ld; fp/ vj fpg]ugf]bw / df; 'p'kfbg klg /fd]xg] / sXLgsf/flDs t]j ePdf To; sf]c; / klg gb]vg]xG .

*nys, kz' cxf/f dxzfvf, vdn6f/ nlntk'/df j/i7 j]flgs -P; \$_ kbdf sfo{t xgxG .

; be{; fdfu{x?

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gkndf kf0g]dVo dVo 8fn]3fF? / ltxdf kf0g]kli6s t]jx?, kz'cxf/f dxzfvf vdn6f/ nlntk'/ gkfn . khlst d08n, d\$/h ltj f/L/ j; G sdf/ >}7, sllsf nflu kz'cxf/f ; j]G Jofj xfl/s hfgsf/L, kz'cxf/f dxzfvf vdn6f/ nlntk'/ gkfn .

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æ; sf/0fn]cfTgk5{slif cg', Gwfg, k; f/ / k7gkf7gnf0{Pp6}5ftfnÆ

8f= ojs Wjh hL; E*

h; /LaXff, lji0f / dxZj/nf0{kY] Lsf]; i6,
; ef/ / ; #fnssf]?kdf lrlg5 To; /Lg}
slif lj sf; sf]; Gbedf slif cg'; Gwfg k; f/
/ k7gkf7g ug}; :yfx? dW0 lgsfosf]?kdf
dflg5g\ slxn\$ffL Pp6}z/L/df ePsf
cEx? alr klg ; ehhgsf]cejf df ynf kgkgf
cj:yf cP h:t}; E]slif lj sf; sf]nflu
; dflxt cjojx? alr sfoqnd thdf /
; #fngdf ; dg offds tfndh gepdf cfzatt
pknAWLng g; lsg]:jefljs 5 . h; /LPp6}
z/L/df ePsf cfFn]gfs gbVg' / gfsf]f
sf; E ; ehhg gxg' h:t}ePsf 5g\s]if
lzlf k7gkf7g u/fpg]lgsfo / slif cg'; Gwfg
/ k; f/ ug]lgsfo . xgklg of]bZdf s:tf]
k\$]/sf]bIf slif lj 1 pTkfbg u/df gkfnL
df6f]/ kf6f]; xfpM]slif cg'; Gwfg e0{cAn
bhff\$]klj lw lj sf; / lj :tf/ x5 eG]x\$sf
; f] E ; D 4 lgsfo alr g t sfoqnd thdf
ubf; g t ; #fng ubf; g t glthf kff kl5
lj Zn]0f ubf; g]xg]u/\$]kf05 . of]:ylt
xgdf bhgf}sf/0fx? ePtf klg glltut ?kdf
slif k7gkf7g u/fpg]lzlf0f ; :yfx? / slif
cg'; Gwfg / k; f/df ; mlg lgsfox? 5\$}5\$}
sfoqt dGfno cGtu\$ /fvg' sfoqnd thdf
ubf;sf]ssf ; d:ofnf0{dv/t xg]u/L; Dalfg
ug]u/Lux/f0df cg'; Gwfg gxg' / lj sl; t
klj lwx? gkfnL sf]ssf]; fdlhs, cfly\$
kl/j Z Pj d\le/fnf]kfvf]/ af/L dL gxg'
Psf]t/ 5g\eg]csf] tkmsf]ssf]3/vtd}
klg]u/L/ sf]sn]a%g]u/LpkoQm; dodf
klj lw x:tfG/Of gxg' h:tf ; d:of kdV
?kdf /x\$]f 5g\ . slif bZsf] cy{Gqsf]

d?b08sf]?kdf /x\$]f o; }Ifqaf6 clwsfz
hgtfsf] cfo:t/ psf:g]; Defj gf /x\$]f
cj:yfdf bZdf slif k7gkf7g ug}; /sf/L
:t/sf]lgsfo s]n /fdk/ lrtjg dfq xg'
/ pSt ; :yf klg lzlf dGfno cGtu\$ /xL
slif lj sf; dGfno; E ; fx]lemf]; Dksdf
/xg]lj Bdfg glltut Joj:yfdf pTkflbt
hgzlQm]cfkrf/ls k\$]tsf]l8u, xlf; n
u/Llj sl; t bZsf bIf hgzlQmf bh{xg'
:jefljs blv5 . hasLlo lgsfox? Pp6}
dGfno cG/ut /fvGof]eg]gkfnLsf]sn]
efh\$]f]; d:of adfhd kf7dqnd lj sf; xbf]
xf]/ yk}Jof]xlf/s slf gkfn slif cg'; Gwfg
kl/ifbsf kofhznfd f kTof ?kdf klj lws
lj sf; df ; mlg lj 1x?af6}; dt xg ; ej
lyof]. cemsf]ssf]v\$af/L/ kfvhf0{x}f]
k7gkf7g Pj +cg'; Gwfg xGof]/ 5fgf]/ lbj f/n]
5\$]sf]sIfsf]7f dfq kofhznf ge0{sf]ssf]
hldg Jof]xlf/s slf l; sf0g]kf7znf xg
hfGof].
j f:tj df gkfnf slif lj sf; sf bhgf}r gffL
ePtf klg j tdfg cj:yfdf plrt klj lw gxg'
slif kZf cfs]ft gxg'; Gog ah\$ lalgotg
xg' Pj +sfdug]lgsfo alr ; ehhg xg g; Sg'
g]kdV ?kdf /x\$]f 5g\ . xgklg gkfn
hn>f]sf]wgL/fi6<hxfhn 5, hldg 5 /
slif pTkbgf]nflu k\$]tn]j/bfg lbPsf]5
t/ lj 8Dagfsf]s/f df5f ePsf]7fpdf kfgL
5g, kfgLePsf]7fpdf df5f 5g eg]csf]k
hxfFa:t\$]dfu 5 ToxfPtkfbg 5g, hxfF
pTkfbg 5 Toxf ahf/ 5g . oL/ o:t}
lj 8Dj gfa6 gkfnLslif uhg'k/\$]f]5 . ckf/

; Defj gf /x\$fls]if Joj :yfk g / rgf]Lsf
 ykfh]lynlynPsf]5 / lk/f]hPsf]5 . la8Dagf
 t s]ifdf j tdfg cj :yfdf alnof, afEf sfd
 ug{xft lbgf]bg o; kzfaf6 lj t]of k]n0
 a? c/asf tftf vf8Idf hfg' >φis/ 7fG'
 kSs]klg of]kzf; lhnf/ doffot gxg':k:6
 blvG . gkfnLeld ; xfp]s]ifdf of]Gs/Of
 ug{/ o; kzfdf /df0bIf hgzlQmsf]ag8g
 xg]cj:yf cfp g]bg'atdfg ; dodf of
 kZgsf]?kdf /x\$fl 5g\ oLrgf]Inf0{xn
 ug{gkfn]df s]if cg; Gwg ug{lgsfon]
 lg/G/ s]fs ; dbfo / ; jf kbfos lgsfo; F
 ; Dj fb u/LcanDag ug{; lsg]glthf lgsf]g'
 cfj Zos 5 eg]To; k\$fl/sf]Jojxf/Is
 lj ifoj :t' k7g kf7g ug{lgsfon]; d6g'
 plQs}cfj Zos 5 t/ To; flPsf]ge0ePsf]
 s]5 eg]lj sl; t bZdf lgoff xg]vfnsf]
 z]fs hgzlQmsf]p]kfbg . o:tf]xgdf :jo+
 JolQmsf]sdhf/LeGfklg /fi6dgdf]sf]nflu
 pkoQmj ftj /Of, thgf]ds cj; /x?sf]sdL
 / Jojxf/Is lzIfsf]sdLh:tf klf lhDdj f/
 /x\$fl 5g\
 gkfnaf6 lj blzg]hdf t s]n cw]If dfq
 ge0bIf hgzlQmklg cAn ; Vofdf /x\$fl
 j tdfg cj :yfdf /fi6dgdf]fx?n]Ps k6s
 lgwf/ v]RofP/}; f]L tt\; DalGwt of]hg
 Nofpg l9nf ePsf]5g . an / afxdf cf>lt
 k/Dk/fut s]if k]fnInf0gkfnLuxf] sf]nf]
 le/ / kvf]x]L; /nls] ?kdf cg; Gwg u/L
 ; f]cg; f/ pknAw u/f0g]; eQsf]5ftfdgL
 oLtlg]bj tinf0[Nofpg' cfj Zos 5 . hasL
 s]fss]efjgf / ; d:of; F 6sLafn] ; dbfodf
 a:g]klj lwsx? cg; Gwg / k7gkf7g ug]
 lj 1; F ; flffTs/ e0{; f]cg?k lj sl; t
 ul/Psf]glthf s]fsn]cf]gf]; df]hs, cfly\$
 / klj lws kl/j z dtlj s kof]df Nofpg]
 j ftj /Ofs} cfj Zos 5 . lj sl; t bZdf

ul/Psf]klj lw gkfnLdf6] xj fkgL, afnL/
 s]fss]f]; df]hs, cfly\$ / klj lws kl/j zdf
 dh gvf]g' :jef]s 5 . h:tf]gkfn]df6f]f
 /f; folgs dn slt x]Ng] To:t}/f] / sLf
 lj?4 sg / slt /f; folgs lj iffbLkof] ug]
 eG]kZgsf]pQ/ cd]/sf jf sg}lj sl; t
 bZdf ul/Psf]glthfafa6 l; k]v/z ul/gk/Dk/f
 bef]ok0{g}dfG' kg{xG . o; sf]pQ/ sg}
 JolQm]slt vfgf vfg]eG]h:tf kZg; F
 hf]8Psf]5 hasL o; sf]l; wf pQ/ k\$]n]
 v]h]hlt vfg]x]To:t}df6f]f klg v]h]hlt
 dn x]Ng g; Sg]kl/l:ylt cfp]gn]cf]hsn
 ux]fnLgkfn]sf k]oMygaf6 n]k e0 s\$fl
 5 . To:t}/f; folgs lj iffbInf0cf]flw elg
 Jojxf/ ubf{cf]hsn afnIdf /f]h, sL/sf]
 eofj x xg' / ; du]s]ifdf gof]r]gf]Lylk'
 h:tf; d:ofx? c]Psf 5g\ gkfn lj Zj Jofk/
 ; 3sf]; b:o /fi6sf]x]; otn]bZn]w}zt?
 k/f ug]kg]/ ; b:o /fi6«j fkt cj; /sf]
 clws]lws pko]h ug]kg]cj:yfdf To; cg?k
 a9L;]a9Llgoff kj4g / cfot klt:yk]gdf
 ; 3fp k/fpg]yn]cWog, cg; Gwg / k]f/
 ug{kg]blvG . h; sf nflu kof]uzn]fsf]
 :t/ ; wfg]kg]/ ; jfu]x]sf]dfu ad]hd
 ; jf k]fx xgkg]cfj Zostf 5 . 7hf]s/f t
 vdN6/df lj sl; t s]if klj lw l9nf gu/L
 xl/x/ejgdf cfp]g'kg]/ xl/x/ejgaf6 tftft}
 s]fss]f 3/v]tdf klg]; eQdf s]f s]dsdhf/L
 / ; wfg]kg]ePdf xfdLs]f]s]ldh]g]; f]gkg]
 ahf c]Psf]5 . To:t}s]if cWog ; yfgx?df
 ul/Psf xhf/f]cg; Gwg z]f]sfo? k]f/ e0
 s]fss]f 3/ v]tdf cfp]g'kg]df cf]h b/fhdf
 ylGsg' klg bef]osf]lj ifo ag\$fl]5 . oL/
 o:t}lj ifosf]; dfwg sfd ug{lgsfo Pp6}
 5ftfdgL e0{klj lw Pj d\hgzlQmlj sf; /
 ; jf kj fx xg cfj Zos blvG .

:yfglo >ft sifsssf]klxrfg, lj sf; tyf kl/rfng

ज 07 clws/L*

sif k]f/ ; jf kjfxdf :yfglo kujf sifsx?sf] kl/rfng ug{cEof; lj utb]v g}x]cfPsf] x]. sd lj sl; t dh'sx?df sif k]f/ ; jf kb'fos lgsfon]; ldt >ft ; fwsf sf/Of kof] dfqdf klj lws kl/rfng ug{g; Sg] / sifsx?n] kl'g ckn]f] upF15d'sf JolQm?nf0{a9L lj Zj; ug{ePsf] sif k]f/ ; jfsf]kxF j]4 ug{156f/ lbu]f?kdf pGt klj lw ckgfpg]klqm]df ; xhLs/Of ug{cujf sifsssf]pkof] jf kl/rfng a9L k'efj sf/Ldfg5 . gkndf xfn / lj utdf ; d] ljleG lsl; dsf sif k]f/ k4lt cG/ut sif klj lw k]f/ ug{sfodf :yfglo kujf?sf]kl/rfng u/\$f]k05 . oxfidhtM :yfglo >ft sif kl/rfng ; DaGwLclxn] Dd kof]df cPsf s]L pbf/Of? / cfudL lbgdf ug{; lsg]pkfox?sf]af/df 5f]s/Ldf rrf{ug{kof; ul/Psf]5 .

!= xfn; Ddsf kof; x?
 t]nd tyf e3f6 k4ltM; k4ltdf :yfglo lgsfo -upF/_ af6 sif ; xfos lgoQmu/L pgx?nf0{klj lws ; xfos÷; xfos klj lws ; xfos (JT/JTA) ; F} s [if ; jf s]b]pk-s]b]:t/df kl]Is ?kdf ljifo ljz]f1af6 t]nd lb0{; DalGw uf]j=; =sf k]b] jf8df /x]f ; Dks{sifsx?nf0{ sif ; DaGwLklj lws ; jf kb'fg ug{sfodf kl/rfng ul/Gof]. sif ; xfosx?n]; Dks{sifssf ; d:of? ; sng u/LcfudL t]nddf lj 1; F 5nkm u/] ; dfwgsf pkfo ; xt csf] e3f6sf]qndf sifsx?nf0{hfgsf/Lu/fp]y] . sd kl/>ldssf sf/Of sif ; xfosx?nf0{ sfddf p]k]/t ug{; lsPg / cfofhgfsf]

; dfkL; F}of]sfoh]lg/Gt/tf kfpG ; s]g .
 6'sL k4ltM; g\! (& df ; 3g kxf8L If] lj sf; cfofhg] (IHDP) cG/ut l; GwLr]s / bh]vf lhN]df ; f]nt 6'sLk4ltM]:yfglo kujf sifsnf0{sif k]f/ ; jf ; fng ug{ kof] u/\$f]lyof]. 6'sLeGfn]upF sif / lj sf; sf]nx/ k]h]pg]Pp6f ; lqm, h]f]nf / t]nd k]k] sfo]t{xf]h; n]alQn]j]kl/ p]h]nf]k]h]Psf]h:t}cfkm]hfg]sf]1fg, ; lk 5/15d's tyf upF sifsx?nf0{k]f/ ug{sf0{ub5 . 6'sIn]ckn]f]; Dksdf /x]f sifsx?nf0{sif ; dfu] lj t/Of ubf{kfpG] sldzg / 9]fgLj fkt]sf]/sd kl/>lds jf k]f; f]gsf]?kdf k]k] ub]y].

ls; fg-ls; fg k]f/ k4ltMjL ; /sf/sf]; xof]df ; g\!(((b]v ; f]nt lbu] e"Joj:yfkg sfo]mn]ckn]f]sfo]f]sf lhN]f?df ljleG afnLj klj lw ljz]fsf cge]L kujf sifsx? 5g] u/Lpgx?; F ePsf]1fg ; lk / cge]sf] ljifodf yk 1fg ; lk / t]nd ; fng ; DaGwL cfw/et t]nd lbg]u/\$f] . t]nd k]k] cge]L kujf sifsx?n]; jf dfu ug{sf]s ; d]x:f] ; Dert]f u/L; d]x ; b:ox?nf0{pgx?sf]dfu / cfjZostdf cfw]/t t]nd lbGg\ :yfglo lgsfosf]; m]gt]nf0{; lglZrt ug{]8f cW]f jf ulj ; pkf]f] jf cW]f dW]Ps ; f]f]sf] ?kdf /xg]k]j w]g 5 . o; sf nflu ; xhLs/Of ug{lhN]f sif lj sf; sfo]hosf j]i7 sif lj sf; clws]sf]; of]hs]df Ps ; ldt / :yfglo:t/df ; xof]L; =yfsf]?kdf sfo{t u} ; jf ; dbfodf cfw]/t ; +yf /x]f xGg\



; dbfo Joj:yt l; krt sliif Ifq cfofhgf (CMIASP): PlzofnL ljsf; j }sf]COf ; xofhdf kj }rn / dWdf-rn ljsf; Ifqsf ; a}#% lhNfdf lj =, #@) ^\$; fna6 ^ j ifsf nflu ; #flnt o; cfofhgf cG/utsf l; #f0 pk-cfofhgfsf sifsx? dWaf6 Joj ; flos ?kdf vtLul//xsf / O5's >ft sifsx?nf0 5gf6 u/Lpglx?nf0{sliif ; DaGwLcfw/et lijfox?, sliif ; DaGwLgsfox?; f]sf]; dG o, ; dX kl/rfng / tflnd ; #fng ; DaGwL lijfodf klzIfs klzIfof tflnd lbOPsf]5 . lhNf sliif ljsf; sfofho, l; #f0 sfofho / ; DalGwt hn pkefQm ; #yfsf]; xofh / ; dG odf l; #f0 pk-cfofhgfsf]sdf08 Ifq leqsf sifsx?nf0{sliif k; f/ ; jf kbfug ug l u/Lh-p=, #>ft sifs kl/rfng ePsf]5 .

lhNf sliif ljsf; sfofho, hDnfsf]kof; M lj =, #@) ^% ; fndf :yfglo sliif >ft JolQm pTkfbg, Joj:yfkg Pj +kl/rfng sfofhgf tof/ u/Lh-s}j-sf, hDfn]Joal:yt 9uaf6 :yfglo >ft sifssf]kl/rfng ug{kof; u/\$f]b}vG . lhNfsf ; a}uf}j =, =f]k}o\$ j8faf6 !:=! hgf >ft sifssf]5gf6 u/Lpglx?nf0{sliif Joj ; fols/Of ; lkdhs klj lw tflnd / Ifdtf clej]4 sfoqmd cG/ut afnLtyf klj lw ljzifsf ljleG lijfodf yk tflnd lbg]sfoqmd /xsf]5 . tflnd k}k >ft sifsx?nf0{sliif ; DaGwLcfw/et pks/Ox? ; xt ; DalGwt j8fsf sifsx?nf0 sliif k; f/ ; jf k}ofpg kl/rfng ug{nlo /xsf]5 . lh=}j =, = uf=}j =, = lhNfdf lqmfzIn u; =, = / lh-s}j-sf= alr axIflo ; Denf u/Lof]sfoqmd ; #fng ePsf]5 . cfjZos cfly\$ >ft Joj:yfkgdf ; a} lgsfox?af6 ofubfg xg]u/Lsfoqmd to ePsf]5 .

@= glltut Joj:yf sliif ljsf; dGfnon]lhNf:t/df ; #flnt sliif Pj +kz' ; jf k; f/ sfoqmd cG/ut tflnd sfoqmd ljzif u/L ; jf s}b;t/lo tflnddf cgejL:yfglo sifsnf0>ft JolQm -klzIfs_ sf]?kdf pkofh ug{gllt g}lnPsf] 5 . gkfn sliif k; f/ /Ofgllt, @)^# sf]!! j6f /Ofgllts ; #rgf dW]Pp6f /Ofgllt æyfglo >ft JolQm]pkofh / ljsf; Æ /xsf]5 h; df bIf Pj +cgejL / cuOFL sifsf=ufdOf >ft JolQm?sf]nut cBj lws ug]pglx?sf]Ifdtf ljsf; ug{/ lg]Zrt ; dXsf]nflu ; jf kbfos ljzif1sf]?kdf kl/rfng ug{eG]pNy 5 .

sliif k; f/sf s}L kof; x?df / glltut Joa:yfsf afjhb :yfglo >ft sifssf]klxrfg, ljsf; / pkofh sd dfq}xg ; s\$]5 / o; nf0]j :tf/ u/LJofks / kefj sf/Lagfpg ; lsPsf]5g . ; jf kbfossf]kIfaf6 x}f ; fj h}lgs sliif k; f/ ; jfsf]kxF cenklg !@-!% kltzt sifs dfemdfq klG ; s\$] / sliif ; jf s}b\$] ; Vof lijutdf eGf sdL ePsf]cj:yf 5 eg]; jfuf]Lsf]kIfaf6 x}f sifssf]dfu / rfxgf a9\$]/ ljleG afnL ljzifsf Joa; flos / cgejL bIf sifsx? klG lijutdf eGf w}; Vofdf pknAw 5g\ o; af6 >ft sifs kl/rfng ug{k}cfjZostf / ; efjgf k; }b}b}vG .

#=:yfglo >ft sifssf]klxrfg ; fj h}lgs sliif k; f/ ; jf kbfos lgsfox?n] k/Dk/fut k4ltb}v g:yfglo cuj f sifsx?sf] kofh ub}cfPsf xg\ lkn8:t/sf klj lwsx?n] ufp}f cuj f, k}ltzIn Pj +; xofhLsifsx? klxrfg u/Lpglx?sf]; dG o / ; xofhdf sliif k; f/ sfoqmd ; #fng ug{l u/\$f] kf0G .

To:t}u; = ;x?n]; fdfhs kl/rfns dfrkf
of]cEof; ug{u/\$f]blvG . lj utdf :yfglo
>ft sifs jf cujf sifsssf]?kdf sfo{u/\$f
jf xfn klg sfo{t >ft JolQm? h:tMslif
; xfos, 6sL, ufldOf slif lj sf; sfo\$trf
u fldOf kz' :jf. Vo sfo\$trf u; = ;sf ; fdfhs
kl/rfnsx?, afnLlj zifsf Joj ; flos sifsx?,
lbufje"Joj :yfk sfoqnd cG/utsf cgejL
cujf sifsx?, Plsst zq' hlj Joa:yfk
sifs klzifsx? / slif ; DaGwL 1fg ; Ik
ePsf OR5's sifsx?nf0{:yfglo >ft sifsssf]
?kdf lj sf; u/Lkl/rfng ug{; lsG . >ft
JolQm5gf ubf{s lif ; DaGwL 1fg ; Ik /
cgej ePsf] Joj ; flos ?kdf pGt klj lw
ckgf0{vL ul/xsf] jf ug{OR5's, sifs
; dbfoaf6 ?rfOPsf]JolQm/ cfrkklg >ft
sifsssf]?kdf sfo{ug{OR5's Pj -efldij Zjf; L
pT; flxt / gT] lng ; Ifd xg' kb5 .
dfly pN]vt ; a>ft sifsx? ; a}:yfgdf
pknAw gxg ; S5g\ ; a\$]Ps; fy kl/rfng
ug{cfj Zos klg xbg . oL dW]sg}Ps
:yfglo txdp pknAw xGg\g}. sg}:yfgdf
u fldOf slif lj sf; sfo\$trf{tfind lnPsf]
JolQmxg ; S5g\eg]st}Joj ; flos sifs t
st}>ft JolQm]kdf sfo{ug{OR5's cujf
sifs xg ; S5g\ xfdIn]oL dW]g}klxrfg
u/Lpglx?sf]Ifdtf lj sf; u/] kl/rfng
ugkb5 .

\$= :yfglo >ft sifsssf]lj sf; / kl/rfng
; jf kbfos ; :yfsf]klfa6 dfq geP/ ; jf
dfu÷k]k ug] sifs ; dx÷; xsf/L hn
pkfQm; :yfx?n]; dt cfrk}kxn / cfly\$
>ftdf klxrfg ePsf :yfglo >ft JolQm?sf]
lj sf; u/Lpkofu / kl/rfng ug{; S5g\
cgejL Joj ; flos, blf, slif Joa:ffodf lg/G/
/xg]/ o; sfo\$trf OR5's sifs 5gf u/L

slif klj lw / k] f/ ; jf ; DaGwL cfwf/eT
tfind lbP/ cfrk] ; dx÷; xsf/Ljf ; :yfsf
cG sifsx?nf0{; jf kbfg ug{kl/rfng ug{
; lsg]blvG . >ft sifsssf]; jfnf0{lg/G/tf
lbg tyf cfj Zos k/\$f]; dodf pknAw xg]
agfpg pglx?nf0{kl/>lds jf kff; fxgsf]
Joa:yf ugkg{xG . kl/>lds jf kff; fxgsf]
nflu dff\$ / u} dff\$ ba}pkfox? canlag
ug{; lsG . tfind, ufl7L, eqdOfdf ; xefuL
u/fpg] kbz\$ sfoqnd pglx?sf]vTaf/ldf
; rfng ug] >ft sifs dfrkf ; dxsf nflu
; fdls ?kdf slif ; fdfuL v/b / slif
pkhx?sf]; fdls ahf/ls/Of u/LTo; af6
sX/sd 56df0 pglx?nf0{kff; fxgsf]?kdf
lbg ; lsG . ; jfsf]cfj Zostf / cfrTo
x/L; dx jf ; :yfsf]sffaf6 sX/sd Joa:yf
ug{; lsG . yk cfly\$ >ft h6fpg :yfglo
u} ; , lh-aj = , uf-aj = ;sf] ; xofu lng
; lsG . klj lws ; xofu lhNf slif lj sf;
sfofho, lhNf kz' ; jf sfofhoaf6 lng'
kb5 . lghLIqsf ; jf kbfos ; :yfx? h:t
Puff\$, g; {LwgL, slif pks/Of lj qmfx?n]
klg lgZrt kl/>lds / kff; fxg lbP/ cfrk]
; fdfuL jf ; jfsf]lj t/Ofsf]nflu :yfglo >ft
sifsssf]pkofu ug{; S5g\
o; /Lslif k] f/ ; jf kbfos lgsfo -; fj hlg,
lghLjf U; = , :yfglo lgsfo -lh-aj = ,
uf-aj = / ; jfufkL; :yf -s]s ; dx÷; xsf/L
jf hn pkfQm :f: :yf_ alrsf]; xsfo\$trf
:yfglo >ft sifsssf]kl/rfng ug{; lsg]
blvG . cfd sifs ; dbfodf kefj sf/Lslif
k] f/ ; jf kjfx ug{:yfglo >ft sifsn]
tkl; ndf pN]vt sfo{ug{kg]xG .
★ slif k] f/ ; jf kbfos ; /sf/L tyf u}
; /sf/L; :yfx?sf]lj j/Of tof/ ug]/ tL
lgsfox?df cfj Zostf cg' f/ ; Dks{u/L
; xofu lng].

- ★ s|if p'kfbg ; fdfuL k|ft ug{; lsg]:yfg
->ft s|if p'kfbg, >ft alp, agf lj?j f
df5fe/f x?sf]lj /Of tof/ ug{sifsx?nfO
hfgsf/Lu/fpg].
- ★ lj leG s|if pkhx?sf]lj lqmlj t/Of ug{
; lsg] s|if ahf/x?sf] hfgsf/L ; sng
tyf sifsx? dfemkrf/ k|f/ ug{.
- ★ lj leG sfoqnd / >ft af6 cknrf] sfo{f]df
lelqPsf tyf ; f]If]df klxnb]v g}ePsf

afnL hftx?sf]gfd / tLhftx?sf]lj ziftsf]
lj j /Of tof/ ug{.

- ★ cknrf] sfo{f]sf] afnL kOfnL, afnL
; 3gtf / lj leG afnLsf] p'kfbst] sf]
lj j /Of s|if klj lwssf]; xof]df cBf] lws
u/L/vg]
- ★ ; jf kbfos lgsfoaf6 cknrf] If]df

- ; fng xg] sfoqndsf] af/df hfgsf/L
lnO{sfoqnd ; fngdf cfj Zos ; xof]
tyf ; dG o ug{.
- ★ ; jf kbfos lgsfoaf6 cknrf] If]df
; fng xg] sifs tlnddf klzIfssf]
?kdf ; xefuLxg].
- ★ s|if k|f/ z]fs ; fdfuL? h:t}kl:tsf
af] /, kf]6/ cfb ; sng tyf ; f]sf]
cWogsf] Joj :yf ldnfpg].
- ★ sifs ; dxsf]j }sdf s|if klj lwsf]lj ifodf
5nkm / cgej cfbg kbfg ug{k/kf6lsf]
lj sf; ug{sifs ; dxnfO{p'kl}/t ug{.
- ★ afnL gfnldf byf kg]/f] sL/f nufotsf
lj leG ; d:ofs]af/df ; DalGwt klj lws
; dIf l/kf]6E u/L ; d:of ; dfwfgsf]
Joj :yf ldnfpg].

*nys, s|if ; rgf tyf ; rf/ s|if j/i7 s|if ; rf/
clwst kbdf sfo{t xgxG .



bwdf xg; Sg]sf]nkrdaf/]hfgsf/L

☞ kdf] sf]/fnf*
☞ kj]ofsd/ ltj f/E*

sf]nkrd{s]xf]<

sf]nkrd{Ps ksf/sf]; Id lhj fof xf]. sf]nkrd{df6f] xj f, uf7, 3fFkft / krf/dhf eBfa6 ; g{lhj fof xf]. t; y{sf]nkrd{gfds ; Id lhj fofsf] pkl:yltnfo{ ; /; krf0sf] ; rs (Hygiene Indicator) sf]kdf ln0G . sf]nkrd{ ; dxdf /xsf clwsf; ; Id lhj fof xfgsf/s xfg / o ; ; dxleqsf vf; lhj fofdfq lb; f lk; faaf6 ; qndt ePsf]xG . o:tf sf]nkrd{lhj fofnf0{lkrsn sf]nkrd{(Faecal Coliform) elgG . o; sf]j] fgs gfd E. Coli. xf].

kz]wt bwdf kf0g]w]h; f]sf]nkrd{gg]krsn sf]nkrd{xg\hg kzfygsf avtdf tyf kzfyg kZrft kfgL, kof]h^a, sdhf] ; /; krf0 cflbsf sf/of kgM; qndof eP/ cfp5g\ bwdf xg]sf]nkrd{gi6 ug{bW kzfyg pB]df kf:r/f0h] g klqmf ckgf0G . o:tf klqmf canDag ubf{bwnf0{sDldf ^# l8ul ;]Gu\$ tfkqrd] #) ldg\$ ttfPk5 % l8ul ;]Gu\$df lr; f]kfl/G . o; klqmfdf bwdf xg; Sg]; DkOf{xfgsf/s lhj fofx; gi6 xGg\ kf:r/f0h] g ul/Psf]bwdf sf]nkrd{xfg .

sf]nkrd{sf]dfkb08

cd]/sf / ef/tsf]; Gbedf kz]wt bwdf sf]nkrd{uOfgf !) kl't ldlnd6/ bW 5 eg] o/fkdf of]uOfgf % kl't ldlnd6/ lgwf{Of ePsf]5 . g]kndf vfB Pg, @)@# n]u/\$f] Joj:yf ad]hd kl't ldlnd6/ bwdf sf]nkrd{uOfgf zG xgkg]/ o; sf]pkl:ylt b]vP bwnf0{blift / :jf:Yosf nflu xfgsf/s dflgg]pNny 5 .

bwdf sf]nkrd{xg gbg ckgfpgkg]; fj wfgL ls; fgsf]bfoTj
!= bW bxg' cufj }efBfsBf /fd]f] ; krf ug].
@=lg/f]L JolQmf/f bW bxg]/ bW bx]f JolQmt ; /; krf0df Wfg lb] .
#= bW bx]f bW lb]uf0/ e]f]sf]yg /fd]f] kv]g].
\$=bW blx; s]k5 l56}lrln^a ; G/ jf 8/ldf k]vfg].

pB]df]sf]bfoTj
!= bW e08f/Of ug{cuf]8 / kl5 6df, kf0krf0g, kf:r/f0h/, tyf 0gnf0g dlzgx; klg !% kl'tzt sfi6s ; f]sf]erh, ! kl'tzt gf0l6s Pl; 8sf]erh]af6 qndzM l; =cf0k=(Clean in Place) u/Ltft]kfgIn] /fd]f] ; krf ug].

@= bwnf0{&^-* l8ul ;]Gu\$ tfkqrd] !% ; \$08 ttfPk5 % l8ul ;]Gu\$df lr; f] kf/L lg/f]g klqmf (Pasteurization) ug].

#= kof]h^a knfi6s /f]nf0{sf]8^a dlzgd] lkr6 ug{cuf]8 sf]8^a dlz]g Snf]gn] wfP/dfq date sf]8^a sfo{ug]/ lk]kfs dlzgd] h8fg UVLight bW e?Gh] afn/fv] / dlzgsf]vfkf clgj fo; kdf aG /fv].

\$= ; /; krf0df kof]h xg]kfgL clgj fo; kdf UV Treatment ug]/ ; fy}bwdf kof]h xg] kfgL kf:r/f0h] g ug].

%= kTos 6df1sf]bW lkm^a ug{cuf18
ljleGg k/If0f clgjfo{kdf ug{
-s_ 3{fz / 7f} kbfi{k/If0f .
-v_ Pl; l86Lk/If0f .
-u_ l; =cf1j = k/If0f .
-ff_ df0sfj fonfhLk/If0f .
-^a_ krf1kfh k/If0f .

^= ; do ; dodf kf0knf0g, eNj, 6df1L
lkm8 dlzg, s18^a dlzgsf]:jfa (Swab
Test) 6j6 ug{.

&= pBfiidf sfo{t ; a\$]:j f:Yo / ; /; krf0df
Wfg lbg].

*= pBfihaf6 ahf/ k7fpf % l8ul;]6u\$sf]

tfkqml sfod u/}dfq k7fp] .
bW laqmfsf]bfloTj
■ lr; f1f e08f/Of u/LbW laqm]j t/Of ug{
■ k; ndf kofk ; /; krf0df Wfg lbg].
■ pBfiL; Dd s1fsn]bW k7fpf klg kofk
Wfg lbg]kg{xG .

pkefQrfsf]bfloTj
■ kofk ; /; krf0QmbW 8]L k; naf6 dfq
bW lsG].
■ pkef1b ldt ; dft gePsf bWdfq lsG].
■ bW pdfn] pkefi ug{.

*nys, vfB klj lw tyf uOf lgoGOf lj efudf j/i7
vfB cg'; Gwfg clwsf kbd f sfo{t xgxG .
**nys, vfB klj lw tyf uOf lgoGOf lj efudf kfj lws
; xfos kbd f sfo{t xgxG .

t/sf/Lg; {Isf krf0bfx?

- ; ug zdf{kl08t

- g; {ldf agf{tof/ ubf{uOf:t/lo agf{pTkfbg ug{; lsG .
- ; ?sf]cj :yfdf la?j fnf0{lj zif x]rfsf]cfj Zos xg]x]f lj leG vfn]cW]f]kl/l:ylt
-h:t]Bfd, kfgL, hgj/, emf/kft_ af6 hf]fpg ; lsG .
- l; w}v]t÷af/ldf lap 5bf{eGf g; {L agfP/ agf{pTkfbg ubf{cdNo alp v] hfga6
arfpg ; lsG .
- o; /L agf{pTkfbg ubf{eljiodf /fd]pTkfbg lbg]vfnsf, /fi sL/faf6 dQmagf{dfq :yfoL
:yfgdf nu] ; fg{; lsG .
- l; Ff0, emf/kft Joj :yfk g; lhn} F ug{; lsG .
- yf]}; dod}pTkfbg lng ; lsG .

; x/sf]5t / sfzldf vtL

☞ ; Gfif clwsf/E*

3/sf]5t / sfzL; aebf /df0bf]:yfgsf]?kdf
ln0G hxfB/sf afx\$ u} ; b:ox?sf]kx^ sd
xG . 5t / sfzldf ljleG ; hgflds sfdx?
klg ug{; lsg]kz:t ; Defj gxf? ePklg xfn; Dd
o; sf]e/k/ ; bkofu ul/Psf]kf0hg . 5t /
sfzldf a; } l5d\$ tyf j/k/sf]b]osf]cfcgG
lng tyf dg axnfpq ; lsG . ; fy} xl/ofnL
sfod ub{ /EL lj /EL km, t/sf/L, kmkmsf
la?jfx? nuf0{au}f :ykgf ubf{3/sf]zlf
klg a95 . zx/df 5t / sfzLx/ofnLagfpg
; Sg' eg\$]f]; fdfhs kl}ti7f klg a9fpg' x].
zx/ls/Ofsf]lj sf; ; F}vtLofb huf / vhf
7fpf]lqkm 36b}u0{x\$]; Gedd zx/af; l?n]
ca 5t / sfzLv}Lklj lwsf af/df ; dg' kg]
ahf ePsf]5 . oBlk, o; ; DaGwLkofft 1fg
/ o; sf krfbf, vt]sf]nflu ; jf tyf ; lj wf,
vt]sf]nflu cfj Zos l; Ff0\$]nflu kgl]sf]
Joj:yf gx} tyf 5t / sfzldf vtLubf{5t
lauG eG]cfd df0tfsf]sf/Ofaf6 klg o:tf]
vt]ldf cfd zx/jf; l? vf; }pT; s b]vb}g\

ljZj 0{txf; nfo{s}hfpq]x]eg]d] k}f}ldof
; Eotf -0xfk} (^) aif{ebf cl3_ b]v g}
hldgdly ?v tyf euf8l? nufpg]u/\$f]ljleG
nyx?df kf0G . gkndf sfzLtyf 3/sf ljleG
:yfgdf th; Lnufot cG kmx?sf af\$ la?jf
nufpg]k}ng w}k/fgf]x]. zx/sf clwsfz
3/x?sf]sfzldf udnf tyf sGg/df ljleG
ls; dsf ; ulGw / /u}ruLkmx? nuPsf]bvG
; lsG . th; L, uhfa, u}fj /L, augehL ; okqL
h/a]f, h/]lgod, nfnkft, nfx/}km, ; bfaxf/
cflb ; ah]dg k/fpg]kmx? xg\ khfcfhdf
klg oLkmx? l6kl/xg ldNg]/ k}pM, a}khfdf
logl?sf]k}f] xG .

s]ifdf cfd dflg; sf]cfsif0f 3l6/x\$]ahf

sf]ssf]; Vof klg 36g u0lj zifl/ zx/Lifqdf
vfBj :t' p}kfbgsf]lx; fan]vfB c; /Iffsf]
; d:of 5 . zx/af; l?sf]nflu cfj Zos kgl
vfBfG, kmkm tyf t/sf/lx? cG lhNfx?af6
c}kt{ul/g]ePsf]x}f pglx? vt]tk}vf; }rfv
b]fPsf 5gg\ zx/Lifqsf]nflu cG lhNfaf6
jf nfd]b/L kf/ u/fP/ t/sf/L / s]if hG
pkhx? Nofpg' kg[ePsf]tL thf / :j:y
x}gg\ cem}Lpkhx? glaluof] \egLcfo'
nDofpg / /fd]b]fpg ljleG ls; dsf lj ifb]sf]
k}f] ubf{o; n]dfgj :jf:Yodf ; f}ngsf]lds
c; / kfg]s/fdf clwsfz zx/af; L; r} 5gg\

zx/sf]5t / sfzldf p}kfbg ul/g]s]if pkhn]
sg}klg kl/jf/nf0{vfB p}kfbgdf c}td lge{
agfpg ; lsG eG]sbflk x}og . t/ o; sf]
dfWdaf6 kl/jf:t/df ; DalGw JolQ}sf]k}f]6s,
; /Ift / kofft vfgf vfg kfpq' kg]df]g; sf]
cfw/et clwsf/ k/f ug{eg]; 3fp k}vof^ .
o; /Lv}Lubf{zx/af; In]cf'gf]nflu c}km]
p}kfbg ug{; sfp^ . ef\$ d/L/ ul/aL36fpg]
nlo lng]x]eg]rf]x j}b /fli6ö gltsf]
cfj Zostf kb\$.

sfzL/ 5tdf vtLug{ebf klxn]vt]sf]nflu
afnL5gf, vt]sf]p}zo / k}f] ul/g]; fduL?
h:tf s'/fx?df Wfg lb'g'h?/L5 . 3fd g}gnf]g]
7fp}f w}3fd r}fxg]afnLnufpg' x}g . afnL
5gf ubf{; s} Dd jif} / nufpg ; lsg] l56f]
l56f/ lgoldt ?kdf l6k ldNg] 7hf]em} g}g]
uR5 h/f xg] h/f w}jul/f] Dd ghfg] Ps j lif6
afnL? pkoQmxG . w}gofFklbgf, v'; fgL/
u}hePsf s}Lhftx?, n}g uf; -lrodf xfn]
vfg ldNg]Ps k\$ /sf]la?j], ; fu h:tf afnL?
lgoldt ?kdf l6k ; lsG . w}gofF/ ; funf0}
sGg/df s}Llbgf]cG/ndf alp 5b}nufp}

lgoldt pkefñ ul//xg ; lsG .

5t / sfzldf nuf0g]afnIx?af6 ljleG kuf0fx?
 klg lng ; lsG . hl8a6lsf]?kdf sfzldf
 nuf0g]th; L klgf, l3psdf/L cflbsf]køfñ
 ljleG /fux?sf]nflu :j:f:vos/ xG . ufhefñ,
 v', fgL wgoF; fu, ndg uf; cflb bgs køfñdf
 cfp]afnIx?sf]køfñ]bgs vr{arfp] tyf
 :j:y cxf/sf]nflu ; dñ dxTj k0f{eldsf vñ
 . ljleG lsl; dsf kmx? nufpñ xl/ofnL/
 h]s lj lj wtf sfod ub}3/sf]zef a9gsf]
 ; fy}khfcñdf ; 3fp kb5 . 3/ tyf ejgx?df
 kg{hfg]3fdfs]k0f tk ; f]g]lfdtf la?j fdf
 xG h; n]ubf{zx/Ltkdfg j]4 ug]dvo sf/s
 tTjx? ; 8s tyf ejga6 kñsPsf /]8o; g
 Gg]s/of u5{. kz:t ?v la?jf ePdf zx/L
 If]sf]cf} t tkdfg \$-% l8ul; N; o; n]36g
 ; Sg]ljleG cWogx?af6 kdfñ0t ePsf]5 .
 a9bf]ud]af6 aRg lj Blto kvf tyf P; Lx?sf]
 køfñ xg]ePsfñ]; a}7fpñ 5tx? ; dñ xl/ofnL
 ePsf]v08df pQmsfo\$]nflu 0Gwg vkt ; dñ
 36g]sl8kmlj Zj lj Bfnos]cWogdf pNny
 5 .

5t / sfzldf vñLug{ljleG ; fdu]sf]køfñ
 ug{; lsG . afnL nufpg udnf, aS; , 8d,
 k/f]afy 6a, afñLh:tf sGg/x? tyf l; dG,
 rfdn, lrgL cflbsf knl:6ssf]af]fx? køfñ
 ug{; lsG . pk/fQm; fdu]k?df df6]e/] 5tdf
 tyf a/08fdf ldnfP/ /fvG' pQd xG . 5tdf
 k\$L agfP/ df6]e/] jf k/f 5t el/ g]df6]
 e/] vñLug]rng obfsbf eP klg o; f]ubf{
 9nfgdf kfgL /; fp] tyf 9nfg kñg ; Sg]
 hñvd xg]ePsfñ]o; ; DaGwL lj z]f Wfg
 kYofpg' kb5 . df6]df af/Daf/ kfgL xfn/xg'
 eGf cf]; nf] dfq agf0{/fvG' pQd xG .
 sf7df8f]nufot ljleG 7hf ; x/x?df cfszsf]
 kfgL; f]g ; Sg]vhf If] lbgf]bg 36b}u0{x\$]
 5 . vhf 7fpñ lkr tyf 9nfg ul/Psf]xgfn]
 yf]}; do kfgL kb{klg ; 8sdf w}}kfgL hDdf

xg u0{8afgsf]; dñ ; d:of cfp] ; S5 . ; fy}
 cfszsf]kfgL; a}au] hñf oxf]hñfw/x?
 / hldgd]sf]kfg]sf]tx kge{0f xg kfpñg
 / ; Vvkg a9g ; Sg]vt/f 5 . sfzldf vñL
 ul/Psf]v08df tyf vfnL7fpñ dxfgu/kfnsfsf]
 gllt adfñd ?v nufPdf cfszsf]kfg]sf]s]L
 dfq ; f] j kfg]sf]j xj nf0{9nf]agfp5 / vñf
 tyf 9n lgsf; df kfg]sf]rfk sd u/fp5 .

sf7df8f]dxfgu/kfnsfdf ca gofF3/ aGf
 clgj fo{b0}j 6f ?v /f]kg]tyf sd; \$d @
 klzt vñf hñf xg'kg]glltut lg06 ; dñ
 ePsf]xñ zx/df xl/ofnLsfod ug{5t tyf
 sfzL vñLk4lt, udnf] j f hldgdf af]; f0{
 ?vx? nufpg klg ; lsG . sg]klg ?vx?nf0{
 lj z]f klj lwsf]køfñaf6 ; fg]cfsf/sf]agf0Psf]
 ; fg ?vx?nf0{af]; f0{elG5 . udnf] j f vfnL
 hldgdf dGnf, xnj f] b, cñ/ cflb afnLnufpg
 klg ; lsG / 0:s; , l; dL l3/fñ, nñs, sfñ]
 h:tf nx/]t/sf]afnLnuf0{xl/ofnLsfod ug{
 ; lsG .

sfzldf vñLul/g'; fdfñs kl]ti7f xg] xl/ofnL
 sfod ug{; 3fp kYofpg]/ tñf / :j:y vñj:t'
 kñf xg ; Sg]ePsfñ]tyf dxfgu/kfnsfsf]
 glltut lg06nf0{; dñ ; xofñL xg]ePsfñ]
 zx/af; In]o; sf]cn]dag ug{al4dQf xg5 .
 ; fy}dxfgu/kfnsf nufot c6 zx/sf]xl/ofnL
 arfpñ]o; af6 bl3\$ñng ?kdf nfe]G t xg
 /fi66:t/sf]gllt thdf ug{; /sf/n]klg Wfg
 kYofpg'kg]xG .

*nys, sñf lj sf; dGñodf sñf cy]j 1 kbdf sfo{t
 xgxG .

uf0{kfngsf]dxTj



8fkq sdf/ d08n*

gkfnsf]s]if k0ffnInf0{dgg\ubf{kz kfngn] Pp6f 5\$}/ dxTj k0f{:yfg cfh6\$]5 . s]if / kz kfngsf]; DaGw Ps lsl; dn]gE / df; ' h:t}5 eGdf sg}zsf 5g . gkfndf s]ifsf] of]ubfg lbg kl]lbg 36b}u0{x\$]kf0G . ; g\ (&^÷&& df s]ifsf]of]ubfg sh ufx{y pTkfbgsf] &!%# kltzt lyof] eg]; g !((%÷(^ df pQmcfE8f \$) =@@ kltzt /x\$]b]vG . To:t}; g\@)!! sf]/fli6e tYofs cg; f/ s]ifsf]of]ubfg sh ufx{y pTkfbgdf #!-\$ kltzt byfOPsf]5 . o; /L sh ufx{y pTkfbgdf s]ifsf]cgkfts of]ubfg 36\$]b]vPtf klg s]ifsf]sh pTkfbgdf xf; cfPsf]b]vb\$. To:t}; g !(((\$÷(% df s]ifsf]sh ufx{y pTkfbgdf kz kfngn]#! kltzt cyft cGafnL kl5sf]bf}f]:yfg cfh6\$]b]vG eg]; g\@)!! sf]/fli6e tYofs cg; f/ s]ifsf]sh ufx{y pTkfbgdf kz'kfngsf]of]ubfg @%^ kltzt dfq ePsf] byfOPsf]5 .

b}zsf] s]ifaf6 cfPsf] ufx{y pTkfbgdf kz kfngsf]sh c\$ dW] % # kltzt dW kxf8 / (kltzt pRr kxf8, #(kltzt t/f0af6 kfk xg]u/\$]tYofI gkfn /fi6« a\$ axp2Zolo 3/w/L; j fof !(*\$÷*% df pNy 5 . of]of]ubfg bW pTkfbgaf6 \$#!# kltzt / df; af6 @% kltzt tyf kzdn / kz'zIQmaf6 @&%@ kltzt ePsf]b]vG . ut !) jifdf bW pTkfbg ; /b/ @%@ kltztn] a9\$]kf0G, To; df klg uf0\$]bW #=\$ kltzt / e}l\$]bW @! (kltztn]j I ePsf]

s]lbp tYofI ljefun]; g !((^ df hgPsf] 5 . gkfndf pTkfbt bW dW]uf0af6 #)=*% kltzt / e}laf6 (^=!% kltzt xg]ub\$. oLpTkfbt bW dW]**) kltzt htLh; n] pTkfbg ub\$ p; n]g}k0f]udf NofpE5 . afELdW]!) ÷!! kltzt dfq laqmug]u/\$] tYofI ; fjfh]gs e0/x\$]/ afELbW dW] l3p tyf cG kl/sf/ agf0g]u/\$]kf0Psf] 5 . of]bW pTkfbg klt JolQm\$^=*^ ln6/ xg cfp\$. hals cfw/et cfjZostf cg; f/ klt JolQmklt jif{&& ln6/ xf]. o; /L Psflt/ kofk dfqdf bW pTkfbg e0/x\$] 5g eg]csf]lt/ o; af6 kfg]cf]bfgLklg l; ldt dfq b]vG . s]if jf kz'kfngnf0 h]j g lgj f\$]af6]g7fg] Joj; fos}?kdf cjndag ug{k]cj:yf cfPsf] 5 .

b}zsf -zx/LIf]df ^% kltzt / u]ldof If]df *% kltzt eGf a9L dfg; x? s]if kz'kfngnf0 cfw]l/t eP tfklg s]if jf kz'kfngnf0 Joj; fo eg] clEsf/ gu/\$]sf/Ofn]g} s]ifsx?n]cfkng] >dsf]plrt dNo kfPsf 5gg\ To; y{kz'kfngnf0{Pp6f Joj; fosf] ?kdf kl/Of ug{o; df ; mlg ; DkOf{s]fs tyf klj lwsx?df r}gf hufpg ; Sg]cj; /sf] >hgf ug{k}b\$. cyft s]if :t/df sfd ug]; DkOf{-kf; =:gf-kf; = tyf klj lws sd\$]f/lx?nf0{plrt t]nd tyf edOfsf] cj; / kbfg u/L bIf klj lwssf]lj sf; df Wfg lbg' lgtfGt cfjZos b]vG .

gkfndf kf0g]uf0\$] hftx?

- !_ :yflgo kxf8Luf0{
- d:t'fEdf kf0g]nh' uf0{
- t/f0{Ifqdf kf0g]xl/ofgf uf0{
- c5fddf kf0g]c5fdLuf0{
- Onfd Ifqdf kf0g]lz/Luf0{
- 8f6L / a}8L Ifqdf kf0g]v}hf uf0{

- @_ pCgt tyf j Ofzs/ uf0{
- ★ h; Kj Ofzs/ uf0{
- ★ a}pg l;j ; j Ofzs/ uf0{
- ★ xflnl:6g lk}hhog j Ofzs/ uf0{
- ★ xl/ofgf j Ofzs/ uf0{

uf0{kfngdf hflvd klf
 uf0{kfng Joj ; fo c; n tl/sfn]ubf{ubf
 klg kfs]ts k\$fl / dfgj lgld{ cj/fyx?n]
 ubf{p}kfbgdf sdL cfp5 . ; fy}ahf/sf]
 klt:kbff]ubf{p}kflbt a:t'sf]dNo sd u/L
 a}g'k/\$f]xG . t; y{oLcj/fyx?n]0{; dfj z
 u/LJoj ; fo ; fng ug{k}g{xG . slxn]
 sfL uf0df yg}hf]/f]n]ubf{!* blv @)
 kltzt; Dd b}wdf sdL cfp5 ; Sb5 . To:t}
 vf]t /f] nfu] @) kltzt; Dd p}kfbgdf
 xf; cfp5 . oLhflvdn]0{; wf/ ug{k}kfbg
 nfutdf klg a9Lvr{e0/x\$}xG . o; /L
 dfgf) kltzt p}kfbgdf sdL/ !) kltzt
 p}kfbg nfutdf a9Lvr{xg'g}o; Joj ; fosf]
 gsf/flds klf xf].

- p}kfbstj a9fpg]pkfox?
- klnf]a}df a9Lbw lbPsf]uf0{vl/b ug}
 - kfF}a}kl5 uf0{? gk]Ng] olb kfNg}k/]
 yk :ofx/ k}fpg'kb5 .
 - ahf/df kf0g]bfgf vj fP/ b}wsf]p}kfbg
 t a95 t/ p}kfbg nfut klg a9g]x}f
 ; :tf]xl/of]3fFdf a9Lhf} lbg' kb5 .
 - c}fwLpkrf/, 8}Gr E, Eof]S; g}zg Of]flb

- s'/df Wfg k}fpg'kb5 .
 cxf/f Joj :y}kg
- ★ a}f5fa}f5In]0{; /b/ \$ dlxgf; Dd dfpsf]
 b}wsf]; fy}yk xl/of]3fF ! s}h} lbg]/
 \$ dlxgfk]5 !@ dlxgfsf]pd]; Dd xl/of]
 3fF @ blv \$ s}h} / k/fn ! s}h} tyf
 bfgf) % s}h}sf]b/n]lbg' kb5 . bf] fl
 jif}f6 3fF % s}h} k/fn # s}h} / bfgf
 ! s}h} lbg' kb5 .
 - ★ ule}L uf0hf0{@ s}h} bfgf @) s}h}
 3fF / * s}h} k/fn klt lbg lbg' kb5 .
 - ★ bxgf uf0hf0{ule}L uf0sf]h:t}bfgf %
 ln6/ bw ; Dd oyfj t / yk % ln6/ b}wsf]
 nflu @ s}h} yk bfgf lbg].

uf0{kfngaf6 xg]kf0bf?
 cfly\$ cj:y}df ; wf/, 3/kl/j f/sf ; a}
 ; b:ox?n]sfd kfp]ePsf]x}f a/f]huf/L
 ; d:ofsf]; dfwg, b}wsf]cfj Zostf kl/klt{
 xg}sf]; fy}:yflgo :t/df kf0g] cxf/fsf]
 ; bkof] e0{v}Lsf]nflu cfj Zos kg}k}f/s
 dnsf]?kdf uf0sf]ufa/ / dn dq kof]u
 u/L slif k}z} af6 cfj Zos c}lbf]L lng
 ; lsG .

*nys, == df sfo{t xg}xG .

उष्णकृषि पौधों में लगे हुए /फ़ीक्स?स] /फ़ायद पंजीकरण के लिए

📌 कृषि रणनीति
📌 जल संयोजक

!= क/रो

गन्ना उष्णकृषि पौधों में लगे हुए /फ़ीक्स?स] /फ़ायद पंजीकरण के लिए।
संयोजक के उपयोग के लिए।
ज/क/ संयोजक के उपयोग के लिए।
/ 0; न/0{crf/sf]?kdf laxfg, ahsf /
lbp; f\$] vfhsf]?kdf klg vfg] u/\$f]
kf05 . of]km ; #/sf]; a}j u\$]vfg dg
k/fp5g . o; df le6ldg P, aL ; L, 0{tyf
SoflN; od/ kmkrf]; h:tf vlgh a:tx?
kf05 h; n]ubf{o; nf0{u/lj sf]; Gnf klg
eG]ul/G . ufhe\$fnf0{l]leG t/sf/ldf
ld; fp/, crf/ agfP/ jf sfF}; nbsf]?kdf
klg vfg]ul/G . o; nf0{kzfvfg u/L ; ; ,
s\$rk tyf thf /; df klg kofu ul/G .
kmnf0{6qrn kf/L 3fddf Ps b0{lbG; Dd
; 'sfP/ cldnf] crf/ agfP/ klg vfg]
ul/G . o; sf]v\$T t/f0\$]v leqL dwzdf
lxp5df / tNf] kxf8b]v dW kxf8sf]
S))-!;!)) ld6/ prf0df o; sf]pTkfbg
aiff{df vNf 7fp5f kfg]sf]sf/Ofn]/fdf]
pTkfbg ug{g; lsg]xgfn]Kfli6s-3/ leq
o; sf] ; km pTkfbg z? ul/Psf] 5 .

/फ़ायद पंजीकरण के लिए तन पंजीकरण के लिए।

@= 9; LhG /फ़ीक्स?

S_ ; [f] wh] 9; L (Powdery Mildew)
of]/fu *Oidium neolycopersici* gdfs]9; Isf]
sf/Ofn]ubf{xg]ub\$. Kfli6s 6gh / xl/t
ux leq sd xj f axg]sf/Ofn]ubf{of]/fu
b]yf kb\$. /f]hsf]z?sf]cj:yfdf kfts]
dflyNf]efudf ; [f v/fgL 5/h:tf]b]yf
kb\$. ha /fu a9b}hfG tj tL; [f v/fgL
h:tf]efu lj sl; t eP/ /ftf/ftf]v/f]sl; dsf]
7hf wj dfd kl/Of xGg\ To; kZrft kftx?
dg{yfb5g\ /ftf/ftf]v/f]sl; ha kl/Of xGg\
/ erg{yfb5g\



उष्णकृषि पौधों में लगे हुए /फ़ीक्स?स] /फ़ायद पंजीकरण के लिए।
संयोजक के उपयोग के लिए।
ज/क/ संयोजक के उपयोग के लिए।
/ 0; न/0{crf/sf]?kdf laxfg, ahsf /
lbp; f\$] vfhsf]?kdf klg vfg] u/\$f]
kf05 . of]km ; #/sf]; a}j u\$]vfg dg
k/fp5g . o; df le6ldg P, aL ; L, 0{tyf
SoflN; od/ kmkrf]; h:tf vlgh a:tx?
kf05 h; n]ubf{o; nf0{u/lj sf]; Gnf klg
eG]ul/G . ufhe\$fnf0{l]leG t/sf/ldf
ld; fp/, crf/ agfP/ jf sfF}; nbsf]?kdf
klg vfg]ul/G . o; nf0{kzfvfg u/L ; ; ,
s\$rk tyf thf /; df klg kofu ul/G .
kmnf0{6qrn kf/L 3fddf Ps b0{lbG; Dd
; 'sfP/ cldnf] crf/ agfP/ klg vfg]
ul/G . o; sf]v\$T t/f0\$]v leqL dwzdf
lxp5df / tNf] kxf8b]v dW kxf8sf]
S))-!;!)) ld6/ prf0df o; sf]pTkfbg
aiff{df vNf 7fp5f kfg]sf]sf/Ofn]/fdf]
pTkfbg ug{g; lsg]xgfn]Kfli6s-3/ leq
o; sf] ; km pTkfbg z? ul/Psf] 5 .

लगे हुए /फ़ीक्स?स] /फ़ायद पंजीकरण के लिए।

/फ़ायद पंजीकरण के लिए।

!= of]/fu sf]/f\$ydfsf]nfu la?j f nufpF
cln kmsdf nufpg' kb\$ / xj fsf]
cfj t hfj t a9fpgkb\$.

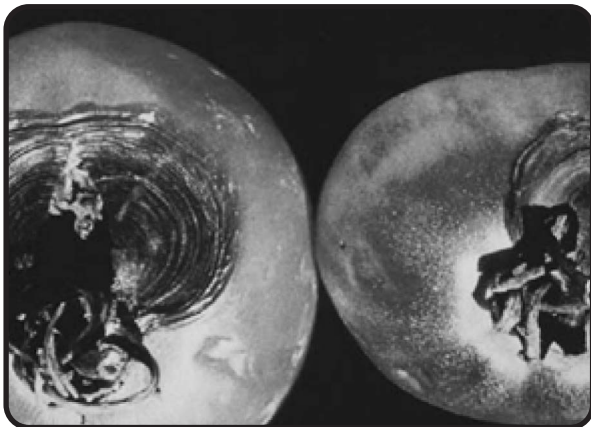
@= ! efu erh dn j f lultdn \$ efu
kfgldf ld; fp/ xkt flbg sf] kmsdf

nuftf/ 5g{ugfh}of]9'; LhG /fh]sf] sdLePsf]kfOPsf]5 .

v_ cN6/g]/of /fh] (Alternaria/Early Blight) of]ufhePfd kfoh; f]byf kg{/fh] xf] hg Alternaria solani gdsf] 9'; In] ubf{xg] ub\$. z?df ; fg]v}f]j f snf]yfh] kftsf] tNf]efudf byf kb\$. yfh]x? a9b}hfGg\ hf]8b}hfGg / xftsf]cfh]sf]rqmh:tf 3d\$]ufhf jf c08f cfsf/sf 7hf wj fx?df ; fh]cfhf h:tf xGg\ /fh] nfu\$] kftx? kxhf] ; Vf xGg / kftx? emg{yfnb5g\ o; n]8fF / kmdf klq cfqrdOf ub\$. 8fFdf snf] leh\$]h:tf]w]f byf kb\$, hg a9b} hfG / k/}8fFdf afqmh v0lnP/ sf08 dfq afBL/xG h; n]ubf{x8fF efrG . kmdf klq kftdf h:t}3d\$; fh]cfhf h:tf w]f fx? byf kb\$ / kmsf]afqmh v0lnG .



lrq g#@ kftdf nfu\$]cN6/g]/of /fh]



lrq g# kmdf nfu\$]cN6/g]/of /fh]

/f\$yfd / lgoGOf

!= tftf]/ cfbtfoQmxj fkgIn]ubf{of] /fh] a9b}hfg]xgfn] lj?jfx? kftnf] &)÷&) ; dLlj?jf blv lj?jfsf]b/L xg]u/Lnufpg] g; {Lj f afnldf w}] kfgLgnufpg].

@= Ps jif{la/fP/ dfq ToxL hũfdf ufhePfd vL nufpg] km l6kL; skl5 ufhePfd]em'nf0{cfufdf hnufpg] of] /fh] nfu\$]7fP] l:k' sn tl/sfa6 l; Ff0{gug] g; {L/ afnlnf0{oèL knfli6s 6gh leq nufpg] .

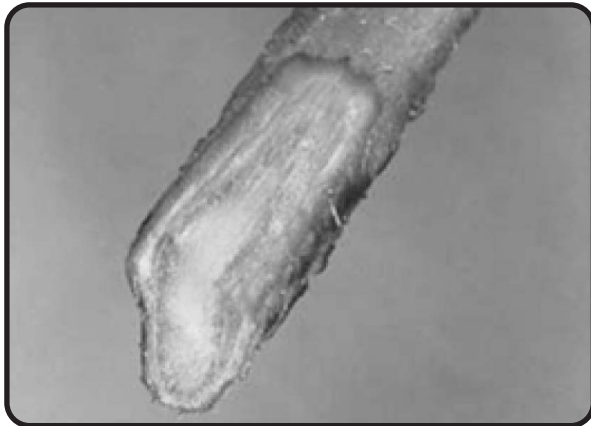
\$= alpnf0{nufpg'eGf kxn}') ; GLu\$ tkqnsf]kfgldf #) ldg\$; Dd lehP/ dfq nufpg]/ Anf06S; -%) jf lhg] -) @ kltzt_jf Sofi6fg -) @ kltzt_jf af\$; ldsr/ -%MM) _ nf0{!÷@ xktsf] cGt/df la?jf nufPsf] ! dlxgkl5 5g{z? ug{t/ lj iffbx?n] ; du|dfgj hftL kzkL/ jftfj/0nf0{ c; / kfg]xgfn] g5g{/fd] xf] .

u_ kmhf/odn]ubf{xg]c0n]/fh] (Fusarium wilt)

of]/fh] Fusarium oxysporum f.sp. lycopersici gdsf]9'; Isf]sf/0n]ubf{xg]ub\$. of]/fh]n] ufhePfd]sxLhftx?df dfq cfqrdOf ub\$. /fh] nfu\$] kftx? kxhf]xg]/ cf0nufpg] xGg hg la?jfsf]8fFsf]tnaf6 z? eP/ dly hfG . o; sf]z?jftdf kftsf] xfh]sf] / k/}la?jfsf]Ps ; f08df dfq byf kb\$ / kl5 la:tf/}c? efudf klq kmhg yfnb5 . /fh] nfu\$]lj?jf l566}db\$ / sd km nfb5 . /fh] nfu\$]lj?jfsf]sf08df kxhf] w; f{ lj:tf/} tn dly ; g{ yfnb5 .



lṛq g# \$ kmhfl/od cf0nfpq]/fḥ nfu\$] la?j f



lṛq g# % /fḥ nfu\$] la?j f sf6] xḥf{b}vg] nIf0f

/f\$yfd / lgoG0f

!= of]/fḥsf]/f\$yfdsf]nflu kfgLhdg g]bg]/fḥ dQmalp /fḥg]/ rf/ aif{ Dd of]/fḥ nfu\$]7fp0f uḥe0f gnu\$] /fḥn]u:t la?j fnf0{pvfn] hnfpq] ugkb\$.

@= ahf/df kf0g]; ḥagLgfdsf]hḥj s ljiffblaf/f alp, Aof8sf]df6f]/ agf{ pkrf/ ug].

#= lk= ; /If % ufd kl't ln6/ kfgLsf b/n]agf{; f/\$f]!% / @% lbgdf 5g].

\$= gfe, o/\$f, l; l/ ; Ḥ; hftx?df of]/fḥ sd nlfḡ]xgfn]7fpFcg! f/

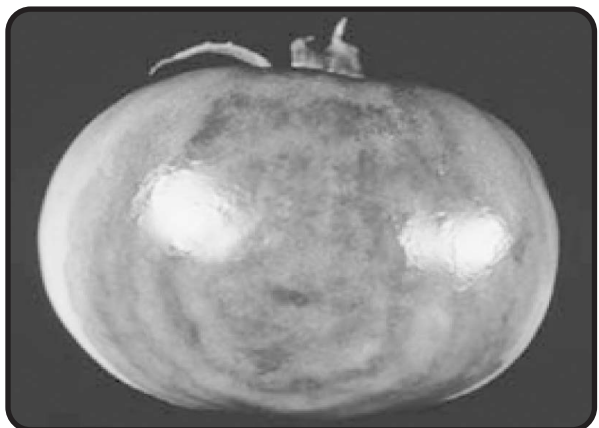
pQmhftx? nufpg].

a_ 89j f /fḥ (Late Blight)

of]/fḥ *Phytophthora infestans* gfd s 9; In] ubf{xg]ub\$. lr; f]xfj kfgL/ j fodf cfbtf a9\$]j ḥfdf of]/fḥn]cfqrd0f ug]ub\$. of]/fḥn]z?df lst ; aḥ0f k/fgf]/ tnsf] kftdf j f ; aḥ0f gofF/ dflysf]kftdf cfqrd0f ub\$. z? z?df kfgIn]leh\$ h:tf Ifq? byf kb\$g\ ltg? Psbd]56f]a9g yfb5g, snf]snf]xl/of]waj fx? byf kb\$g / la?j f t; f/fḥ]vfp h:tf]b}vG . cfqrd0f u/\$f]kftsf]tNf]efudf v/fgL/a\$]f; ḥf] byf kb\$. xl/of]j f kfs\$]kmdf cfqrd0f u/\$f]5 eg]kmdf v}f]waj f byf kb\$, km l5\$}lau, xfb5 / slxPsf]uGw cfpq yfb5 .



lṛq g# ^ 89j f /fḥ nfu\$] la?j fsf]kftdf b}vg]nIf0f



lṛq g# & 89j f /fḥ nfu\$]kmdf b}vg]nIf0f

/f\$yfd / lgoGqOf

- != of]/f]usf]/f\$yfdsf]nflu /f] dQm alp /f]g]/ of]/f] nfusf]7fpff #, \$ aif{ Dd uf]he}ff gnufpg]Tb; df cG afnLnufpg].
- @= kftx? lr; f]ePsf]j}hf sfd gug] /f]n]u;t la?jfnf0{pvn] hnfpfg]
- #= /f] v]g ; Sg]hftx? h:t}; hgf / Pr cf/ 8L !& sf] v}L ug].
- \$= agf{/f]g]b]v g}wfg'sfk, Anf06S; , sk6/ h:tf lj iffbIx? @ uf]d klt ln6/ kfgLsf b/n]ld; fP/ 5g].
- %= /f] nflu; s\$]cj:yfdf /f] b]vgf; fy lqrgf]S; n uf]N8; ; rf/; :k\$6f, jf xf0ldn @ uf]d klt ln6/ kfgLsf b/n] \$÷% lbgf]kmsdf @÷# k6s 5g' kb5 .



lrq g#* kftsf]; Kff]/of yf]n]/f]usf]nlf0f lj:t} lrq



lrq g#(kftsf]; Kff]/of yf]n]/f]n]lj gfz kf/\$]uf]he}ff afnL

r_ kftsf]; Kff]/of yf]n]/f] (Septoria Leaf Spot) of]/f] *Septoria lycopersici* gfdS 9; ln]ubf{ xg]ub5 . /f]usf]z?df ; fg] kfgln]leh\$fy yf]nfx? b}yf kb5g\ tLyf]nfx? kl5 v}f] v}f]; }f]s}ePsf / uf]9f lsgf/f ePsf]sf] ?kdf kl/0ft xG5g\ /f]usf]k\$}fk Hbfbf ePkl5 kftx? kx]f]x}hfG5g\ la:tf/}v:b} hfG5g\ /f]n]hg; }ahf cfqrdOf ug}; Sb5 t/ km nf]g]ahf]df o; sf]k\$}fk a9L xG5 . of]/f] kfgLk/\$]ahf a9Lxg]ub5, z?df tnsf kftx?df xG5 / lj:tf/}dly a9h}hfG5 .

/f\$yfd / lgoGqOf

- != of]/f]usf]/f\$yfdsf]nflu /f] dQm la?jf /f]g]/ cln kmsdf la?jf /f]g' kb5 . l; Ff0lj?j fsf]k]hdf / laxfgL kv ugff] /f] sd nf]g] xG5 .
- @= /f]n]u;t eP/ em\$}f kftx? x6fpg] df6f]dlg kg]jf hnfpfg]ugkb5 .
- #= 3ldt afnLrqmckgfg]/ ToxLh]ufdf #÷\$ aif\$]cGt/df dfq uf]he}ff nufpg]ugkb5 . kfgLk/\$]ahf jf laxfgf]lzt]df uf]he}ff af/ldf sfd ug{x}fg .

em cf(0nfpfg] /f]u (Damping off)
 ufheP]sf]c(0nfpfg]/f]u *Rhizoctonia solani*
 gfdS 9; In]ubf{xG . of]/f]u lr; f]/ leh\$]f]
 df6f]f xg]ub\$. ; fgf]la?j fx? df6f]f6
 lg:sg]lalQs}j f glg:sb}dg]ub\$g\ la?j f
 df6f]f6 lg:skl5 of]/f]u]cfqndOf u/]f
 lj?j fdf kfgIn]leh\$]f]h:tf]efu byf kb\$,
 hg Psbd}g/d xG, efrG / hldgdf
 9N5 . la?j f 7hf]e0; skl5 cfqndOf u/]f
 la?j fsf]af]ndf /ftf]/ftf]v}f]efu byf
 kb\$, af]m v0lnG / cGdf la?j f db\$.

/f\$yfd / lgoGOf

! = of]/f]u]sf]/f\$yfd]nflu df6f]f0{w}
 lr; f]gagfpg] kfg]sf]lgsf; sf]/fd]
 kGw ug]/ cIn km]sd]f la?j f /f]g]

@ = la?j fsf]g; {L/fvbf cInS p7fP/
 /fvG]/ g; {sf]df6f]f0{pkrf/ u/]
 dfq nufpg]. 3D]t afnLrqmckgfpG
 c0 afn]x? h:t]Mds} hf] af\$]L/
 T0x h]ufdf #-: \$ aif\$]cG/df dfq
 ufheP]f nufpg]ugkb\$.

= ; h]agL-60\$]f]df]lel/8L / bdg la
 P; -a] n; ; l^6ln; _ gfdS 9; lx?sf
 k0f]u ug].

\$ = g; {Lj f la?j fdf of]/f]u byf kg]
 la]Qs}a]leli6g, gfleli6g j f Pl/li6g
 gfd]sf lj iffb]x? @ ufd kl]t ln6/sf
 b/n]kfg]ldf ldn]P/ %:-& lbg]sf]km]sd]f
 k/} la?j f leHg] u/L 5g{ kb\$.

* n]ys, s0/ gk]ndf kl/of]hg]f Joj :y]ks kbdf
 sfo]t xg]G .
 ** n]ys., Joj; fo kj4g tyf ahf/ lj sf; lgb}gfno
 xl/x/ejgdf s]i k]f/ clws] kbdf sfo]t xg]G .

; 0e{; fdfu]k?

■ >]7, lqn]so gfy, @ ^) . ad]f] dL t/sf/L
 p]kfbg klj lw

■ >]7, s]of sdf/L, @ \$& . gk]ndf t/sf/L
 afn]sf dVo /f]ux? .

■ s]if lj sf; 8fo/L, @ ^) . s]ifs ; N]fxsf/
 ; jf.

■ vltj 8f, a] k] fb, @ ^) . ufheP]f p]kfbg
 ln]f / p]kfbg kZrft ckgfpg' kg{klj lw,
 s]if ; 0z, s]if / kz'la]fg cWfg ; :yfg,
 /fdk/, lrtjg, gk]n .

■ u]fd, 0]j/Lk] fb, pkfWfo, s]fnsf k] fb,
 k]h, v8u eQm@)%* . jif]ufheP]f v]f]sf
 nflu k]fi6s 3/sf]k0f]u]Ps cgej, klj lw
 ; f]nf] gk]n s]if cg'; Gwfg kl/ib, s]if
 cg'; Gwfg s]f, n]n].

■ 00kfg] k]0f]k] fb, @ \$^ . afn]la?j fsf
 zqx? / Itgsf]/f\$yfd, ; fem] k\$]zG,
 sf7df08f].

■ kfy/h, /dz/fh, @ \$# . afn]la?j fsf /f]u
 / f\$yfd .

■ kg?, /fdafa', @)! . t/sf/ldf n]f]g]dVo
 dVo /f]ux? / Itgsf]/f\$yfd .

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lghfdtL; j f lbj; @) & sf]pknIodf slif lj sf; dGqfnoaf/f cfof]ht
kltoflutdf kyd :yfg kfk ug{; km slj tf

gkfnslif lj sf;



ejfgLvtj 8*

gkfnLxfdLo}df6f] h, v] xsf .
kf}v ul/ ; d] gkfn, agfpg h6sf ..
:j b}Ldf6f] >dn]rdf, gfgLenj G5 .
lx/f / dftLoxL5g x], l6k g eG5 ..

; Defj gfsf vfgL5g\oxf, Itgnf0{hfg] .
pJhgLnfpH] hxfkn5 , To}j fnL5fg] ..
lxdfnLe] r/gdf e\$], Rofuf / rf}Luf0{.
cn}L, lrof, t/sf/L, skn ; hfpkxf8nf0{..

klj lw gofFslifdf leqdf0{ k}f/ u/f .
ofGqs clg c]v]uss/Of, v8ksnf]r9f .
; rgf ; Gfn ahf/sf]j gf0{ To}leq j ;] .
pJhfg]ls; fg, pkef]stf{ vfg]xf]ldn] ..

ufxssf]OR5f, rfxgf alemu/f]g pTkfbg .
kfu]s]t/ nDsf To; d} kn0{f w}5g ..
dlxn] ls; fg kf}vsf wgL, xf} nf lbgnf0{.
; dfg sfdsf]; dfg Hbmf ; Ddfg Itgnf0{..

hn 5 ckf/ l; f0{shf] lgdf0{ u/fpb} .
klj lw, dn, lj Bt.; 8s, kj f}f/ j gfpb}..
vBfGj fnLpJhfp w} cfoft s6fpm
cn}Llrof, t/sf/L, skn lj b} k7fpm.

n\$sf]afEn]3f / r/g, j }ldf emf .
; Gnf, s]f, ln]r / cfk, ekSs}e/f .
df5f / j u', r]kof, df]L, xf / sv'f .
kf}vL xdf] kl; gf; u, }d'sfp5g\6fs'f ..

k/f0{b}zdf kl; gf kf}bf, df6f]of]b} .
; gsf sOf o}df6f] 5g\p7fp eG5 ..
>hgf kf}fn\$ / j }L, t/f0{; hfpm
slifdf qm]Gt u/] gkfn, ; d] j gfpm.
slifdf qm]Gt u/] gkfn, ; d] j gfpm.

.. ; dfk ..

lghfdtL; j f lbj; @) &) sf]pknIodf s lif lj sf; dGqfnoaf/f cfoflht
kltoflutdfdf latlo :yfg kfl ug{; km slj tf

gkfnndf s lif lj sf;

☞ ?b|vgfn*

Ps uff vfg lgTo ; s 3/df cfwL/Lcfp5
sflnf]af\$] lx8 vtdf dhs ef\$}kb5
wtlnf0{cdfd dfGx? w/tlnf0{g}/fh5g\
wtlnf0{aem g; Sgx? dxn dfq}tS5g\
cfofd 5 lj sf; sf]
To; h]
oxfS lif lj sf; 5 .

hdlg vG'sf]s8f bM af\$] yflife/
rf8f af6f]ag] knng v]5g\s; fg t/
dfg; k6ndf ls; fg bnn]kmkm pAfp5
bjLbj tfx?sxflgto kik jifp5
cfofd 5 lj sf; sf]
To; h]
oxfS lif lj sf; 5 .

RoftL^ofsg tof/ 5]htdLv taf/Lk'fgf]5 / <
hdlgdg gj hbf]Len dn xg]cG afx\$ s]5 / <
af6f]; G/ vgf}cfh kln]x/lj tf; cfp5
cfofd 5 lj sf; sf]
To; h]
oxfS lif lj sf; 5 .

ugkfk u/] cf gf]3/df dlG/df wfp5g\
dfvf]dfg]tst gxg? 7hf]ws nfp5g\
vtaf/LafE/fv/ logn]udnf tSb5g\
!@j; Gsf]dd{gaemx? s]lnf0{x]5g\
cfofd 5 lj sf; sf]
To; h]
oxfS lif lj sf; 5 .

gkfnngkfnInf0j/bfg lbP5
vfhf, gmf, hdlg hun Sof /fdf]/x\$
kvf\$]zfg, gfd / dfg /fv]o}Pp6f /x\$
cg\$tdf Pstf xj fkgldf lj lj wtf gkfn xdf]k]f /x\$
cfofd 5 lj sf; sf]
To; h]
oxfS lif lj sf; 5 .

dfhPsf]; a}lj s]t Rofltb ca
; bfrf/Lagf}cfh ; a}/fi6x]s
:j R5 lgiklf xf] xdf]b]zsf]zf; g
ouf}ou agf] cDd/ lr/sfn s lif sf]; dg
cfofd 5 lj sf; sf]
To; h]
oxfS lif lj sf; 5 .

lghfdtL; j f lbj; @ & sf]pknIodf s]if lj sf; dGqfnoaf/f cfof]ht
 kl]to]utdf t]to :yfg k]t ug{; km slj tf

g]kfnsf]s]if lj sf;

abl.vgfn*

t]to]E uf{x y p]kfbg
 b0]t]xf0]sf]/]huf/L
 of]b]fg aem]s]ifsf]
 c]to u/]ef]sd/L.

sk]f]0]n]c]sf]t kl]t]v]lg
 gul]hpg st]klg
 k]t]f]8t hgd]fg; n]gegg\
 v]B ;]k]et]f v]elg .

l:y/ p]k]fb]gsf]W]p] xg
 nfuf]p]k]f]b]s]t] j]4df
 dn, alp, kl]j lw / kz]f]vgn]
 p]T; fx xf] \s]if]sd]df .

l; F]f]0] c]h]f/; ; A]f]0] / ahf/
 cfw]f/ xg s]if lj sf; sf]
 p]G]t v]t]Lkz]k]ng u/L
 cf]b]fg]L]a9]f] \s;]gs]f].

s]if]s s]l]0]t xf] \x]df]s]fo}
 s]if]s/ 56 u/]ca
 ; xh C]0]f pkn]A]w]t]f ; F}
 u/]f]kz]af]n]L]j]df ta .

cg! G]w]g]df xf] lj z]f] h]f]8
 lz]I]ff]n]h]g]z]l]Q]m]j]s]f; df
 p]R]r d]N]s]f]:t/lo p]kh\x]f] \
 lj]Z]j J]of]k]f/ d]f]k]b]0]8]df .

J]oj ; fo]ls/0]f u/]s]if]s]f]
 k]j]f]w]f/ ; d]t] v]8]f u/L
 lj]j]b cg]j]Q] k]b]fg ; F}
 p]k]f]bg nfut sd u/L

lk8fn'

☞ ; lzn v8sf *

kl/ro

lk8fnhf0{cu}hIdf 6f/f] (Taro) j f 088f] (Eddoe) elgG eg]o; sf]xG L gfd cle{ (ARVI) xf]. of]P/\$} L (Araceae) kl/j f/df kb5 / hg; sf]f]of; of (Colocasia) xf]. xfdn]vfg]lk8fn'0:shGf (Esculenta) hftsf] xf]. of] Ps jif] t/sf/L afnL xf] .

lk8fn'df kf0g] ljleGg kf]i6s tTj x? lk8fn'sf]8fF Pj +ufgf]ltg}yf\$ t/sf/Isf] ?kdf kof] ul/G . ufgfhf0{pl; g], kf]h] vf0G5 ; fy} t/sf/L agfpg klg kof] ul/G . kft tyf 8fFhf0{x/of]t/sf/Lsf] ?kdf cyjf ; sfP/ kl5 vfg]rng klg 5 . ufgf]f :6fr{kz:t kf0G5 h; df !& bYL@% kl}tzt Pdf0nf] xG . o; sf ; fy}lk8fn'df kf0g] kf]i6s tTj x? o; ksf/ 5g M

xfj fkgL

lk8fn'ud{kxfj fkg]ldf xg]afnLxf]t/ t'; f/f gkg]dW kxf8LIf]df klg v}Lul/G . t/f0{ e]df o; sf]v}L/fdf]xG . o; n]lr; f]/ t'; f/f; xg ; SbG . afnL; doel/df !)) ld= d jif{xg]7fpdf ufgf\$]p]kfbg /fd] xG . lk8fn' v}Lsf]nflu cf] t b]gs @! b]v @& l8= ; † tksd cf]Zos xG .

df6f]

/fd] f kfg]sf]lgsf; xg]anf]df6f]f lk8fn' v}L/fdf]xG t/ o; df kz:t dfqdf kfuf/Is kbfy{xg h?/L5 . xNsf t/ b]f6 df6f]f lk8fn'sf]ufgf 7hf]xG . o; nf0{ lrD6f0nf]df6f]f klg v}Lug{; lsG / s}L xb; Dd df6f]f kfgLhd\$]cj:yfnf0 klg ; xg ; S5 . df6f\$]lk=Pr %% bYL& lk8fn' v}Lsf]nflu /fd]xG .

hftx?

gkndf lk8fn'sf :yfglo hftx? h:t}xfQL kfp, v/L lk8fn' cflb nufpg]u/\$]kf0G5 .

alp tyf alpb/

lk8fn'df afg:kltS k}f/Of ul/G . 6; f knfPsf] sl/a #) ufdsf]ufgf? alpsf] ?kdf kof] ul/G . t/ ufgf]7hf]ePdf @ b]v # cf]nf /fv sf6] klg /fg ; lsG . dVo ufgf](Mother corm) eGf ; hf (Cormel) nf0{alpsf]?kdf kof] ug{/fd]df]lgG . Ps x\$6/ hufdf nueu ! 6g jf #&)) hlt ; hf cf]Zos xG .

/fg]; do / t/Isf

kxf8df r}t-i}zfv / t/f0df j}zfv-hi7df

S#	gfd	dfqf
!	lr:ofg	&#!= ufd
@	lrNnf])=!
#	/] f	!)= ufd
\$	Sofnf/L	(&
%	kmkrf];	!\$) ufd
^	Sof]N; od	\$) ufd
&	; f}lod	(=) ufd
*	k}6g	# ufd
(vlgh	!-& ufd
!)	cG sfaf}f08G	@!= ufd
!!	cf0/g	!-& ldlnufd
!@	k}f; lod	%) ldlnufd
!#	le6fdlg aL	\$) cf0 o'
!\$	/f0af]kmlag)=# ldlnufd
!%	yfoldg)=(ldlnufd
!^	lgsf]6g]s Pl; 8)-\$ ldlnufd

8df^a agfP/ jf kmfnsnf]hldgdf nf0g sf]L
jf xnf\$fl; ofdf /fk; ; lsG . Ps nf0g
b]v csf]nf0gsf] b/L sl/a ^) ; }dL=
xgkb\$. af\$sf] b/L @% b]v #) ; }dL
rfxG . /fk; s;kl5 emf/kft jf :ofpnf
cflbn]5fk\$.

hldgsf]tof/L

lk8fm' v}Lug[hlf @ jf # k6s @) b]v
@% ; }dL= sf]ulx/f0df hft] df6f]v'shf]
kfgkb\$. bffl6 df6f]f v}Nf agfP/ v}Nf]f
/ff] /fd]pTkfbg xG eg]PnlePn df6f]f
df6f]cnslt p7fP/ /ff] pTkfbg /fd]
xG .

dnvfb

Ps x\$6/ hlf]sf]nflu !% b]v @) 6g s;klf6
xNkb\$ eg]/f; folgs dnvfbx? *) M%)M
!) s}hLg06ff]g, kmkf]; / kf\$; kl
x\$6/ l; krl/; ul/Psf]5 . /f; folgs dn
xNf lk8fm' ld7f]g]xg]/ 8fF slxg]cgej
ul/Psf]5 .

uf\$dh tyf l; Ff0

lk8fm' afnldf emf/kft x6fpg, df6f]v'shf]
kfg{/ ps]f lbg uf\$dh ug{kb\$. 5fkf]
lbPsf]5 eg]uf\$dh w]ug{kb\$. of]afnInf0

l; Ff0sf]TotL cfj Zos kb\$ t/ cfj Zos
ePdf l; Ff0 lbP pTkfbg a95 .

/fh, sL/f / ltgsf]lgoGf

lk8fm' afnldf vf; }/fh sL/fsf]; d:of ePsf]
kf0b\$. cf] Inf]hlfdf kftsf]89jf /fh
nfu\$]kf0G . of]/fh nfu]f 8f0y\$ Pd \$%
lj ifbL@ ufd kl't ln6/ kfgldf ld; f0 5gkb\$
. kft vfg]sL/fn]bM lbPdf yof\$g @ ld=N
kl't ln6/ kfgldf ld; f0 5s\$ kb\$. vd]
sL/faf6 arfpg hldg tof/Lug{ahdf @)
lsnf]dfnyfог whf]kl't x\$6/ hlfdf 5g]
kb\$.

pTkfbg

lk8fm' /fk\$]f^ b]v &) lbgkl5 lsgf/af6
cfPsf]kft 8F ; lxt x6fpg' kb\$. o; /L
kft x6f0lbgfn]ufgf]7hf]xG . @ j 6f dfq
kft afBL /fVg] u/L c? a/fh/ x6fpg'
kb\$. lk8fm' /fk\$]f & b]v * dlxgf kl5
pvNgsf]nflu tof/L xG . ; fw/0ftof !
x\$6/ hlfdf !@ b]v !% 6g ufgf]pTkfbg
xG .

*nys, slif lj sf; dGfno l; x6/af/df slif lj 1sf]
kbf sfo{t xgxG .

सिफ क्लि लु क; फ/दफ :यफगु पकमपद=/डोफसफ]ेल्दसफ

☞ %msgfy s8h*

kl/ro

cg; Gwgaß lj sl; t ePsf sif klj lwx?nf0{ sifs ; dlf kxofpg lj leG dfWd / tl/sfx? ckgfpg]ul/G . To:tf dfWd / tl/sfdW] dVotof JolQmt tl/sf ; fdlxs tl/sf / cfd ; Dks{tl/sf kb5g\eg]tL tl/sfsf nflu lj leG dfWdx? kofh ul/Psf]k0G . h:tfMolQmt e3f6, 6]nkrf; ; Dks{ tl/sf kbzg, glthf kbzg, kfj6/, kDk\$, kqklqsf, 6]nlehg, /]8of] cflb .

/]8of] cfd ; rf/sf] Pp6f ; zQmdfWd xfl. o; nf0{dgf]~hg lbg] ; " ; lrt ug] lj leG lj ifodf lzIf kbfug ug] / sg}g sg} ?kdf dflg; x?nf0{kofj kfg]zIQmzfnL dfWdsf]?kdf ln0G .

sif k; f/df /]8of]nf0{cfd ; Dks{/Vg]; fwg dflgG . cfwlgs hlj gdf o; /L /]8of] sfoqmdn]Pp6f cxd\eldsf lgj f u5{ . To; /L g}k; f/ lzIfdf klg o; sf]cToG ; sf/fds eldsf xG . s]b:t/af6 k; f/Of xg]/]8of]bze]l/sf]nflu k; f/ lzIfdf eldsf v]g]ePklg :yfg lj z]fsf]pTkfbg Pj +ahf/Is/Ofsf]klj lwnf0{ ; d\$g g; Sg] cj:yfn]jubf:yfgo ?kdf :frint ; fdbfos PkmPd=/]8of]n]:yfg lj z]fsf]klj lw / ; d:ofx?nf0{:yfglo efiif / z]hldf k;tt ug]xgfn]oL/]8of]?sf]eldsfx?sf]:yfg erg dxTj k0f{dflgG .

/]8of]0{txf; ox/f/]8of]gkfnblv xfn :yfglo :t/df :yfgf e0{k; f/Of ul//xsf PkmPd=/]8of]s]

af/df ; Hft 0{txf; sf]af/df pNny ug{ af-5lgo blvG .

; g* (% df dfsf]In]tf/ lagf g}cfj fhmf0{ nfd]b/L; Dd k; f/Of ug{; lsg]k0fn]sf] lj sf; u/]. o; hf0{g}lj Zj df /]8of]sf] cflj Zsf/sf]?kdf ln0Psf]5 . xfn]sf]/]8of] k; f/Of dfsf]Lsf]cflj isf/sf]lj sl; t ?k dflgG .

/]8of]gkfn ; j kyd lj = ; # @) # ; fn d; / dlxgdf cf/De ePsf]xf]. hxflgof /f0ff zf; gs]cGo ug]pZon]lj = ; # @) ^ ; fndf lj /f6gu/df Ps cfsfzj f0Ls]b]sf]:yfgf ul/Psf]lyof]. lj = ; # @) & ; fn d; / @* ut]laxfg ; f9]* ah]PsfPs Pp6f k; f/ ; lgof]æf]gkfn khftG /]8of]xf]. xfdL la/f6gu/ dlQmdf]f6 afn/xsf 5f].E la/f6gu/ cf; kf; sf Ifx? / ef/tsf s]L Ifx?df ; G ; lsg]of/]8of]@) & ; fnsf] /f0ff lj /f]L ; 3if{ ; rfngsf]kdv eldsf v]sf]lyof]. @) & ; fnsf]qmd aG ePk5 pQm/]8of]s]nf0{sf7df08]sf]l; xb/af/kl/; /df Nof0(@) & ; fn r; @) ut]/]8of] gkfnf k/Of ul/Psf]xf].

gkfnf lj = ; # @) % @ ; fn blv PkmPd=/]8of] ; jf z? ePsf]xf]. xfn PkmPd=/]8of]sf] ; Vof lbg k]tlbg a9g]qmd hf/L 5 . xfn gkfnf :yfglo PkmPd=/]8of]sf]; Vof \$) \$ klu; s]sf]5 .

/]8of]af6 sif sfoqmd lj = ; # @) !* sfQ\$df /]8of]gkfnf sifsx?nf0{



s|if klj lwaf/]; ĩrgf k; f/Of ug|p2on]Ps
Psf0\$|:y|kgf ePsf]kf0G5 . o; }ahfb|v
g}gkfnf /|Bof|af6 c|krf|/s ?kdf s|if
sfoqmd k; f/Of ePsf]xf]. To; ahf x|k|sf|
rf/ k6s s|if sfoqmd k; f/Of ul/Gof].

/|Bof|g|kfnaf6 k; f/Of xg|s|if sfoqmd bž
e/Lg}k; f/Of xg|ePtf klg bžsf|ef|f|ns
cj:l:ylt, xj fkg|sf|lj lj wtf, v|k|ftLnufpg|
; dosf]k|mskgn]ubf{k|efj sf/L?kdf s|if
klj lw s|ifs ; d|f k|yofpg g; s\$|kf0G5 .
/|Bof|g|kfnaf6 s|l|b| k; f/Of sf|olx l; ldttnf0{
; Dafvg ug|lx; fan]:yfglo PkmPd=x?n]
:yfglo cfj Zostfnf0{ ; Dafvg xg|u/L
cf-c|k|gf]:yfg lj z|f|sf|s|if sfoqmd k; f/Of
ubf{cf0/x\$| 5g\

:yfglo PkmPd= /|Bof|\$|f] ; an k|f
/|Bof] cfd ; ĩrf/sf] Pp6f ; zQmdfWd
xf]. klj lw k; f/df o; nf0{cfd ; Dks{/fVg|
; fwg dfG ; lsG5 . t; y{s|if klj lw k; f/df
:yfglo PkmPd= /|Bof|\$|f]lgDfg; f/sf sfoqf
; an eldsf lgj f| ug{; Sb5 . lg/If/ s|ifsx?
; d|f k|l|lw k|yofpg] Ps dfq e/kbf|/
k|efj sf/LdfWod g}/|Bof]xf].

★ PkmPd=|Bof|]k; f/Of sf|nflu Pp6f lj z|f
Ifqnf0{nl|ft u/} sfoqmd p|k|fbg /
k; f/Of ub5, h; n|ubf{tLIf|sf d|lg; n]
; xh / ; /n efiffdf a|e|ng ; Sb5g .

★ k|b|n]/|Bof|nf0{Pp6f lj Zj ; lgo ; ĩrgsf|
>f| dfG5 / To; sf|cfw/df l5\$}k|eflj t
xG5 .

★ :yfglo PkmPd=n]:yfglo efiffsf]; d|t
k|of| ug|ePsfn]gof|k|lj lwdf Wfgfsif0f
ug{ cle?lr hufpg j f p|k|/Of hufpg
/ sfd ug{k|/t ug{dxTj kOf{eldsf
v|b5 .

★ :yfglo PkmPd= >f|fx? cToGt

pT; stf; fy /|Bof|g|hs}a:g|/|Bof|c|k|k|f|
af\$|g|ePsfn]/ cfhsn t df|f0ndf g|
PkmPd=sf]; lawf ePsf|xgn]klg klj lw
k; f/df o; n|dxTj kOf{of|b|fg lbg ; Sb5 .

★ s|ifsx?nf0 k/\$|f]; d:of h:tf|afn|lgfn|df
/f|sL/fsf]k\$|f|, af9Lkx/f|cl; gf h:tf
b|j k\$|f|af6 ku\$|f|I|ftsf|af/df t?Gt
; ĩrgf k|j xg|ug{:yfglo PkmPd=n]7hf|
eldsf v|b5 . h; af6 ; DalGwt lgsfonf0{
; dfw|gsf|nflu t|T|fn sbd r|f|ng ; d|t
; xof|u kb5 .

★ klj lwsf]k|f6f]eg\$|f]p|k|fbg dfq xg .
Jo; fols/Of sf|nflu ahf/Is/Of klg plQs]
cfj Zos k|f xf]. :yfglo PkmPd=n|ahf/
; ĩrgsf]dfWdaf6 ahf/Is/Ofdf 7hf|
of|b|fg u/\$|f]kf0G5 . h:tf]s|if pkhsf|
yf\$ tyf vb|d|b, p|k|fbg :yn, p|k|f|bt
a:t' / k|/df0f h:tf s'/fx? Hfgsf/L
u/fpg|x|b|f s|ifs, Jofk/L / pkefQ|n
; ahf0{s|Lg s|L?kdf ; xof|u ku\$|f|
b|vG5 .

:yfglo PkmPd=sf]l; ldttf
:yfglo PkmPd=sf]kz:t ; an k|fx? x|b|f
x|b|f]klg s|L sdhf| k|f / l; ldttfx?
5g\

● /|Bof]; ĩ; ĩ]j Bt c|k|t|j f Aof6k|pknAw
xg h?/L5 .

● k; f/Of cj lw / ; do k|j {lgw|f|t xG5 .
To; ahf s|ifsx?n]c|G| sfd 5f\$|gk|g|
xG5 .

● :yfglo PkmPd=x?n] a9L dfqdf
d|gf|~hg|f|ds sfoqmd k; f/Of ubf{s|if
klj lw; ĩ ; DalGwt dxTj kOf{lj ifoj:t'
; d|t w|}5f|s|ldf k; f/Of ug|u/\$|f]Ps
cWogn]b|y|Psf]5 .

● s|ifssf cfj Zostf cg; f/ ; do ; f|k|f|sf
klj lw? k; f/Of gug|/ sltko hfgsf/lx?

- cfjZos geP klg bffxvof/ k; f/of ug\ h:tf sdhf/lx? b]vPsf 5g\.
- cWogn]s]byfPsf]5 eg]sltko sfoqrd k;ttfxf? sfoqrd k;ttLsd bIf 5g\ h; af6 sifsx?n]ckllft kllalws 1fg kfpq ; s\$ 5gg\
 - of]Pstlkn; r/ dfWd ePsf]k[7kflfOf kfMc; Dej xG .
 - klj lw k; f/ofdf kofh xg]sltko klj lws zAbjnL/ efiif; u ckl/lrt >ftfs]nflu k; fl/t ; fdfu]sf] sg} cy{/xbg .
 - PkmPd=/]8ofh] sltko sfoqrdx? c; fble\$; dodf Pp6}sfoqrd k6s k6s k; f/of u/\$f]kfoG .

; eifj

:yfglo PkmPd=]sdhf/lx?nfO{Gg ug\ :yfglo PkmPd-k; f/ofstfh]lgDfg; f/sf sXL; eifj x?nfO{dgg\ug{xf]eg}>ftf sifs yk nfeifG t xg]b]vG .

- ★ sg}klg /]8of]af6 k; f/of xg]sfoqrd ; fdfG hg; dbfos]nflu xG . Toj ; dbfo cGtu{ kns ju{pd], lnu, ?lr, Joj ; fo Pj +:t/sf dflg; x? xGg . o; af6 kTos ; dbfonfO; Gt6 kfg]kTg ugkb5 .
- ★ s]if sfoqrd]sf]pkfeh] ufdIOf ; dbfon] ug{ePsf]o; sf]lj ifo /f]s Pj -efifdf ; /ntf xg'h?/L5 .
- ★ klj lws zAbx? kofh ubf{tLzAbs]cy{ ki6 aleg]u/LeG'k5{.
- ★ dxTj kOf{Pj +a9Lpkofh]L sfoqrdx?sf] k; f/of cj lw a9fpg].
- ★ tYodf cfwl/t /xL ; do ; fble\$; fdfu]x? k; f/of ug\.
- ★ lj ifo lj zif1 / :yfglo cgejLsifsx?; f kToIf s'/fsfgL Pj +5nkmsf]Joj :yf ; xt k; f/of ug\.

★ ; DalGwt lj ifodf g}1fg ePsf sfoqrd k;ttf dkn sfoqrd k;tt ug{nufpg]

lgisif

:yfglo PkmPd=/]8of]dVo ?kdf *# klztz hgtf a; faf; ug]ufdIOf If]df a9Lkrlnt 5 . ufdIOf hgtf ax; Vos sifs 5g\ . ItgIx?sf]; rgsf]e/kbf]/ dxTj kOf{>ft dW]Ps PkmPd=/]8of]xf]. PkmPd=/]8of]sf] dfWdaf6 s]if klj lw k; f/of ug{ka]Q klg a9bf]5 . o; sf]kfej sf/Itf klg a9bf]5 Psft/ eg] csf]t/ kfo lhNfx?df PkmPd-k; f/of sOx? :yfkf e0; s\$ / xg]qrd 5g\ :yfglo PkmPd=/]8of]af6 k; fl/t s]if sfoqrd kfej sf/L ePtflkg dxTj kOf{hfgsf/L s]if ultj lw / s]if ; dfr/ clt 5ff]; do k; f/of ug]Psftkneg]csf] tkns]fss]Jo:t ; donfO{/ ; do ; fklf klj lw k; f/ tknWofg lbOPsf]kfOPg . /]8of]k; f/of If] cToGt lj:tt 5 . o; sf] dfWdaf6 et, jtdfg / eljiosf ultj lwx? Pj +pkn]Awx? k;tt ug{; lsG . :yfglo cfjZostf / ; dosf]Vofn ub]s]if; f ; DalGwt ; rgf Pj +hfgsf/lx? k;tt u/df PkmPd=/]8of]s]if lj sf; sf nflu s]if klj lw sifs ; dlf x:tfG/of ug{dxTj kOf{eldsf lgj f ug{; Sb5 .

-.gftsO/ sif]sf]zfykqs]cfw/df tof/ kl/Psf] ny -

*nys, s]if lj efudf s]if k; f/ clws] kbdf sfo{t xg]G .

kmkmh / dfgj :j f:y

सं sfdgf clwsf/L*

kmkmh ; jg dfgj :j f:ysf nflu lgs} nfebfof dflgG . k\$[tn]dflg; nfo{:j:y /xgsf nflu rflxg]ljleG tTjx? ljleG kmkmx?af6 ljleG df} dx?df kbf g u/\$f] 5 . kmkmh / ltgIx?sf]:j f:ydf pkoftutflgDg /x\$]5 .

cfE

- kmkmhsf]/fhf cEh]:d/Of zlQma9fp5 .
- sfh]6/fh 36fp5 .
- kfrg zlQma9fp5 .
- cfvhsf]t]h a9fp5 .
- SofG; / /f\$5 .

cgf/

- cgf/sf]h'; si6 /fh]Lsf nflu pkoSt xG
- cgf/sf]af\$[sf]lelq ; t]efu cfpE/ ^f8f kvfnhsf]nflu km0bfhgs xG
- :tg SofG; / , kmf; f\$]SofG; / / kf]6\$ SofG; /; E n8g d2t u5{ .
- sfh]6/fh / pRr /Strk 36fpgsf ; fy} /QrgnInfo; Gthgdf /V5 .
- cNh]do/ /fh]sf] lgoGqOf u5{ .

cdnf

- le6fldg l; = sf] ; aEOf wgL ; ft
- snhf\$] nflu ^nf0bfhgs xG .
- lk; fa gn]sf] ; d:ofx? x6fp5 .
- skfnsf]rds a9fp5 .
- z/Lsf]/fh]klt/fv]ds Ifdtfd j]4 u5{
- skfndf rfof\$]/f\$yfd ug{; xofh u5{
- l6j]sf]/fh]L, vf\$]L, Pkl8l6sf]/fh]Info{ km0bf u5{ .

cDaf

- z/Lsf]/fh]klt/fv]ds Ifdtfd j]4 u5{
- le6fldg l; sf]WgL>ft .
- kf\$; sf]dqf k' xG h; n]d6'sf] w8\$g / /Qm; rf/nfo lgoGqOf u5{ .
- slAhot / h'sfsf] lgoGqOf u5{ .
- kftsf]kofh bft bv\$]ahf pkoSt xG .
- 5fnhsf]/fh, bEsf]x;f / dwd\$]sf]nflu o; sf]; jg km0bfhgs xG .

; l/km

- cdg x6fp5 .
- Kfrg a9fp5 .
- snhf]f0 km0bf u5{ .
- /utnfo; km u5{ .

gl/jnsf]kfgL

- gl/j n kfg]sf] kfs[ts lkm6/ xf]
- gl/jnsf]kfgLztkl]tzt z4 xG, To; h] /Qmfgdf o; sf]kofh xG .
- gl/jnsf] kfg]df z/L/nfo{ rflxg] On\$6fhf06x? w]}kfoG .
- yf0/f08sf]/fh]Info gl/jnsf]; jg /fdf] xG .
- z/Lsf] cgfjZos ^of6 sd u5{ .
- dwd\$]sf] /fh]Info{ km0bf u5{ .

:ofp

- sfh]f\$ SofG; / xgaf6 /f\$5 .
- cNh]do/ /fh]Info{ ^nf0bf u5{ .
- h'; n] cgfjZos tfh 36fp5 .
- kfrg kOfn]df ; wf/ u5{ .
- bdsf] /fh]Info{ nfebfof xG .

कृषि सूचना

- d6' / /utdf ; u/sf]dfqf lgoGqOf u5{
- lbdudf /Qm; rf/ a9fpF .

सूचना

- afysf]/f]Inf0{hf]L{bVg]; d:of sd u5{.
- sf]6]/f] 36fpF .
- cgf]Zos tf] 36fpF .
- kfrg k0ffnldf ; xof] u5{.
- SofG; /; u n8g ; xof] u5{ .
- skfnf0{g/d agfpF .
- dwd] /f]sf]lgoGqOf ug{d2t u5{.

सूचना

- d[uf]hsf]kTy/L x6fpg ; xof] u5
- o/Is Pl; 8 / /Qm; rf/ lgoGqOf ug{ d2t u5{.
- cfvf] nflu nfebfoS xG5 .

सूचना

- d6' / /Qm; rf/ ; Gthgdf /V5 .
- 5fnfsf] rfpl/g] k\$pf sd u5{.
- lbdudf, cf]f / d6hf0{:j:y /V5 .
- krf]ns Pl; 8 k' / dfqdf kf0G5 .
- z/L/sf]/f]klt/f]Vds lfdtdf j]4 u5{

- kfrg k0ffnldf ; xof] u5{.
- SofG; / lgoGqOf ug{ ; xof] u5{ .
- pRr /Strfk 36fpg'sf ; fy}/QgnInf0{ ; Gthgdf /V5 .

सूचना

- skfn g/d agfpF .
- /utdf U'sf]hsf] dfqf a9fpF .
- bfEnf0{; t]rds lbG5 .
- /QmNktf sd u5{.
- 5fnfsf]Rofpl/kg 36fpF .
- ls/fn]6f]sf]7fp]f s]f nufpbf ^rf0bf u5{.
- l8k] g /f]Inf0{/fd]xG5 .
- cN; /x? /f]5 .

सूचना

- t]hf ^m vfg]ugf]w}]k6S lk; fa nflu /xg]/f]Inf0{/f]syf]d u5{.

*nys, lh-s]j-sf= enkfdf j fuj fgL clws] kbdf sfo{t xgxG5 .

सूचना

- AICC publications
- Internet



s|if Joj ; foIs/Ofdf b|vPsf]; d:of / ; dfwfg

☞ /fhzdfg s; E*

gkfn Ps s|if k\wfg dh'ssf] ?kdf lrlgG . bzs|b0{t\xf0[hg; Vof s|ifd}lge{ 5 eg|cemkkg sh hg; Vofdw}^^ kltzt lx:; f s|ifd}cfwl/t /x\$]5 . t/ s|if Ifqdf lj Bdfg k/Dk/fut v\TlkOfnL, p\kfbt s|if j:thf0{ahf/ kxFsf]; d:of, s|if k\zdf nlfq?nf0{; Ddfgt b|6sf0n]gxg{kj|Q tyf s|if Ifqdf ; /sf/sf|Gg nufgL/ kfyldstf h:tf sf/Ofx?n]ubf{dfg; x? s|if Ifqaf6 qmz\mj dv xB}u}s|if Ifqtkmcfslif xg yfn\$ 5g\ h; sf|kl/Ofd:j?k dh'sleq} k\z:t /fhuf/Isf]; Defj gf af\$}s|if Ifqtkmcfslif 36b}uPsf] / /fhuf/Isf]lj sNksf ?kdf j|z\$ /fhuf/Inf0{/fhg yfnPsf]5 . h; n]ubf{dh'saf6 k\os jif{nfv}sf]; Vofdf gkfnlx? lj b\zL/x\$ 5g\ of|qmd hf/L 5 . o; /Ldh'sdf phzIn >dzlQmj b\zlg|qmdn] ubf{oxf\$}s|if eld klg qmz\Mphf8 aG} u0/x\$]5 .

clxn]gkfnslsh e"efudW}s|ifofl6 eld s/La !* kltzt dfq /x\$]tVofIn]byfPsf] 5 . cGqsfs|s/f 5f8f;sf7df8f;pkTosfdf ; dt clxn]a9bf]zx/Is/Of; u}s|ifofl6 eld gi6 xB}u0/x\$]5 . ljzifu/Lclgolqt ?kdf ejgx? lgdfOf ug|qmd tla|ePsn]s|ifofl6 eld gi6 xB}u0/x\$]lj 1x? atfp5g\ sf7df8f;pkTosfdf clxn]jifg(!) xhf/ gofF3/x? ykglu/\$f]tVofl 5 . olb oxLultdf zx/L lj sf; sf|gddf clgolqt tj/n]ejgx?sf] lgdfOf xB}hfg]xf]eg|cfpbf]s\j ifleq} s|ifofl6 eld ; dft e0{; uf]pkTosf slqr6 hundf kl/Oft xg|lrGf lj 1x?n]JoQmu/\$f 5g\

o; /Lx/\$ jif{s|if hldg cltqmdOf al9/x\$fn] dh'sdf vfB ; s6 klg a9b}u0{x\$]5 . kl/Ofd:j?k s\Lbzs cl3; Dd vfBfG lgof{ ug{dh's clxn]vfBfGsf]nflu k/lge{ aG} uPsf]5 . gkfn]clxn]j ifg|xhf/f}d|6s 6g uxFds} rfdn nufotsf cTofjZos vfBfG a:t\? cGqaf6 cfoft ubf{cf0/x\$]5 . o; f|xg'sf]kdv sf/O s|if Ifqdf /fhn] kof{t nufgLug{g; s\$|/ s|inf0{cy{Gqsf] d?b08sf]?kdf dfG g; s\$|g]xf]eG]7x/ lj 1x?sf]/x\$]5 . o; /LPsftkms|if ofl6 hldgdf ejgx? lgdfOf ug|qmd tla|?kdf al9/x\$]5 eg|csf{knhnj fo' kl/j tG / df}dLx/kmsf sf/O gkfnsl]s|if p\kfbg 3l6/x\$]lj 1x? atfp5g\

To; f]t gkfn]df ofhgj 4 lj sf; sf|yngL ePsf]klg ; f9}% bzs gfl3; s\$]5 . lj=, # @)!# ; fndf ePsf]kyd k-rj ifl6 ofhgfsf] yngL; f}gkfn]df ofhgj 4 lj sf; sf|yngL ePsf]xf]. t/ lj 8Dj gfsf]s/f s]5 eg|olt nfd]cj lw kf/ ul/; Sbf klg s|if Ifqnf0{ cfwgsls/Of ug{; lsPsf]5g . ofhgfs}sf/ ubf{; ft}k-rj ifl6 ofhg; Dd s|if Ifq /fhsf] klxn]kfyldstfdf k/sf]lyof]. t/ To; kl5sf] sg}klg ofhgf cj lwdf /fhaf6 o; Ifqn] kfyldstf kfpG ; sG . /fhaf6 of]Ifq nueu pkllft cj:yfd}/xdf]eGf kms kbG . clxn] cfP/ dh'sdf oqf]/fhgllts kl/j tG e0; Sbf klg s|if Ifqdf \$ kltzteGf a9L ahG lj lgoflht xg ; s\$]5g . cempb\$ nfbf] s/f t s]5 eg|rfn' cfly\$ jif\$]ah\$N] ; dt s|if Ifqnf0{vf; }kfyldstf lbPsf]b|vbg . xg t rfn' cfly\$ jif\$]ah\$df s|ifdf cfwl/t ; xsf/lx?sf]kj 4g ug|3fifOf ul/Psf]

5 t/ To; sf]nflu cfjZos :ki6 gllt af/ ahdf sxLst}pNy ePsf]k0hg . jf:tjdf s]if If]df a9bf]p]kfbg nfut 36fpg, p]kfbg a9fpg, dgfkrh j]4 Pj d\s]if If]df cfdh kl/jtg'sf nflu s]ifdf of]Gs/Of ug{cfjZos 5 . t/ s]if hldgsf]o; /Lvl08s/Of e0/x\$]f] 5 ls o:tf ; -; fgf 6qrh hldgdf of]Gs/Of ug{klg ; Dej xhg . cs]f]krh gkndf l; Ff0sf] /fd]Joj:yf 5hg, dnsf] cflkt{/fd/L xg ; ls/xsf]5hg eg]s]if ahf/sf]Joj:yfkg klg Tolt ; xh 9uaf6 xg ; ls/x\$]f]5hg . k]k] hfgsf/Lcg' f/ gkndf clxn]j flif\$; f9]# nfv 6g dn rfxG . t/ gkfnLs]f]sx?nf0{ rfxg]cfjZos /f; folgs dn, alp / s]if pks/Of?sf]cfoft / ; xh pkn]wtfd; /sf/n] Wfg lbg g; Sbf s]if If] w/fzfoLaG}u0/x\$]f] lj 1x? atfp5g\

o; /L dh'sleq}kz:t cy]kfhg'sf]; Defj gf af\$]f]s]if If]sf]Jofj ; fols/Of]tkn]oy]rt Wfg glb0Psf]/ /fhuf/Isf]lj sNksf ?kdf j]bz s /fhuf/Inf0{dfq /f]hg yfnPsf]n] dh'saf6 jif]Lnfv]gkfnLoj fx? /fhuf/Isf nflu lj blzg]u/\$f 5g\ ha ls vf8Ldh'ssf phf8 d?eld eg]gkfnL oj fx?sf] >d / kl; gfn]x/fe/f aG vf]b}5g\ tyflk gkfn ; /sf/, s]if lj sf; dGqnon]s]if j:tx?sf] ahf/f]dv p]kfbgdf k]f; f]xgsf nflu egL ljleG sfodx? cl3 ; f/\$f] 5 . dGqnon] gkfn]dhs tyf ahf/f]dv p]kfbgdf s]is ; dx tyf ; xsf/Inf0{; xof]h ug]qrd]f gkfn]sf @% lhNfx?df o; lsi; dsf sfodx? ; f]ng ug{nfu\$]f]hg]Psf]5 . tLlhNfx?df ; Def]otf cg' f/sf s]if p]kfbg j:tx?sf]kj c'g ul/g] atf0Psf]5 . pQmsfod] dWdf-rnsf wgif, dx]Q/L ; nf]L /f]x6, af/f, k; f]l]rtjg, sfe] sf7df08f]-nln]tk' / w]b]E k]Zr]df-rnsf gjnk/f; L ?kG]L slknj :t', k]Nk, :of^hf, sf:sL, tgxFndh]E, dWk]Zr]dsf b]E, af]E]

albdf ; v]t tyf ; b/k]Zr]dsf s]hfnL / s~rgk/df ; f]ng xg]hg]f0Psf]5 . h; cg' f/ dWk]x]8sf !) / t/f0\$]f !% u/LhDdf @% lhNfx?df ; f]sfod] nfu"xg]ale]f]sf] 5 . ; fy); f]sfod] cGtu] Jofj ; flos s]isf nflu kl]lws lj sf; , dfgj ; f]wfg, k]f]w/ tyf ; f]ng ; DaGwLc]Tofj Zos ; lj wf pkn]w u/f0g] klg hfgsf/Idf cfPsf] 5 . lgZro klg ; /sf/n]; f]ng ug{nfu\$]f]oL sfod]x?nf0{:j futof]b d]G' kb5 . t/ s]if If]sf]Jofj ; flos lj sf; sf nflu oLsfod]x? dfq kof]t xg ; Q]hg\ o; sf]nflu s]if If]df lj Bdfg cj/f]w? sd ug{; /sf/n]lj z]f /Of]g]lt g}agfpg'kg]b]vG . o; sf]nflu s]if ; DaGwLclxn]sf]gllt tyf sfod]x?df klg k'g/f]n]f\$g ug{k]g]v]f]b]vPsf]5 . dVo s'/f clxn]sf]; G]edf s]if If]df b]vPsf] xf; f]dv cj:yaf6 s]isx?nf0{t]sin /xt lbnfpg ; xsf/Ls]isf]cj wf/Of cl3 ; fg{g} af]Gglb xg]b]vG . o; sf]nflu s]isx?sf] ; dx agfP/ ; xlnot b/df COf kb]fg ub} Plsst ?kdf kzking / v]tLug]df k]f; f]xg ug]k]cfjZostf b]vG . ; fy)gkfnLs; f]g?n] klg ca ; a}sl; dsf]afnL nufpg'sf]; f6f] Ps}sl; dsf]afnLsf]v]tLug{k]oQmxg] b]vG . o; sf]nflu df}d / hldgsf]k\$]f/x]j hg 7fp]df h]afnLsf nflu cg'sh xG To; \$]f]v]tLug]k]s]f]sx?sf]Wfg kl'kg] b]vG eg]; /sf/n]klg o; sfod] s]isx?nf0{ k]f; f]xg ug]sf nflu pkoQmk]lj lws 1fg / j]ftfj/Of agf]0bg'kg]b]vG . olb of]k4lt ck]g]fpg]xf]eg]dh]sd] xfn b]yf kl//x\$]f] vfB ; s6sf]; d:of w}xb; Dd G'g]Is/Of xg]sf]; fy}s]if If]qnf0{Jofj ; fols/Of ug]df klg dxTj kOf{ ; 3fp k]G ; Sg] b]vG .

*n]ys, gkfn lj 1fg tyf kl]lw k]f k]ti7fg -gf:6_ df k]w]g clws]t kbdf sfot xg]xG .

s|s|ugkg{/x\$ t < dnf0{t Tof]klg ; }X} hfGg dg nfbf].

h#6=PMgcfQg; g cfd, d ; a}s/f attf0xfN5' lg . kln]tflsPsf]ztz? k/f u/Lk|tj ^rf/d e/] cf^gf]Joj; fosf]aldf u/fpgkb5{ . t/ o; /Laldf ubf{k|tj ^rf/dsf]; fydf ; DalGwt klj lwssf] kdf0fkq ; dt kz ugkb5 .

a9Lcfd Mclg of]; DalGwt klj lws eg\$fl rfx+s:nf0{eg\$fl]lg <

h#6=PMklj lws JolSt eGfn]afnLaldsf] xsdf slif ; jf s@|jf dfGtf kkt lzIf0f ; yfaf6 slif lj ifodf cfw/e't 1fg xfl; n u/L; DalGwt lgsfoaf6 ; f]; DaGwdf sfo{ ug{Ohfht kkt JolSt x]leg]kzkG5Laldsf] xsdf rfx+kz' ; jf s@|pks@|jf e@/lg/L h#6=, h#6=P jf ufdIOf kzkG5L :jf:Yo sfo\$tf{jf dfGtf kkt lzIf0f ; yfaf6 kzkG5L lrlsT; f÷kzkG5L lj 1fg lj ifodf cfw/e't 1fg xfl; n u/L; DalGwt lgsfoaf6 ; f]; DaGwdf sfo{ug{Ohfht kkt JolStnf0{ elgPsf]xf]cfd .

a9LcfdMP Ūs/f To; f]kf]xf]afa' < To; f] eP ca cf^gf]aldsf]/sd bfaLug\$flnflu s|s|ugkg{/x\$ t< Tof]klg hflg/fv]fg Ū

h#6=PMcl3 elgPsf hg; s}sf/Ofaf6 klg df5f jf kG5sf]xfgLg\$; fgLePdf & lbgleq / wfg, cfn' t/sf/L kmkm / kzwgsf] xsdf eg]!% lbgleq jf ; f]cj lwleq ; ej gePdf ; f\$]sf/Of ; kt cfjZos sfuhf]sf] ; fydf aldf sDkgldf ; Dk\$ ugkb5 .

a9LcfdMaldsf]/sd bfaLug\$flnflu rfx+

s:tf s:tf sfuhftx?sf]cfjZos k5g't afa' <

h#6=PMo; sf]nflu kOf?kn]el/Psf]bfaL ^rf/d, ; DalGwt klj lwssf]kltj lg, ; Ssn aldfny / g-kf÷uf÷j÷, ÷j 8fsf]; h]dg drNsf jf df5f, kzwg / kG5sf] xsdf sDldf ; a@Of glhssf]@ hgf l5d\$]sf] ; h]dg drNsf rfxG cfd .

a9LcfdMslif aldf eg\$fl]t ls; fgf]nflu lgs}dxTj kOf{kf]/x\$. aNn cfh afah] egkl5 yxf kfPE ca d klg hlt; Sbf]l56f] cf^gf]afnL tyf kzwgsf]aldf u/] 9Ss xG' . clg ufpB/df klg o; af/]; ahf0{ hfgsf/LbG' .

h#6=PMl7s eGgeof] cfd tkf0h] .

a9LcfdMcf]f]Ū5n^m ubf]b]lgSs}a] kf] eP5 . nf} ca t lg:sg kYof] Sof/] .

h#6=PMG lg t cfd, s]LkYof]eg]cfpg; \ g .

a9LcfdMcf0xfN5' lg afa, nf}/fd/La:gf] \ x}t .

xl/z/OfdŪ

*nys, slif ; rgf tyf ; rf/ s@|xl/x/ejgdf slif ; rf/ clws] kbdf sfo{t xgG .