

द्वैमासिक

कृषि

jif%) ciff9->jf @)& cÍ @

; Dkfs d08n

; Afs

ho dsG vgn

kWfg ; Dkfs

0Zj/ k; fb l/hfn

j l/i7 ; Dkfs

j s07 clwsf/L

; Dkfs

; ug zdf{kl08t

; kgf af:tfhf

knBf]

cgk zdf{kbh

bj/fh ufhL

; zIn clwsf/L

5kf0€lj t/0f

; kgf af:tfhf

efhfgfy kbh

lx/f 9^auh

zDe'ykfk

— ; Dkfslo —

/fli60 wfg lbj ; tyf /fkf0fdxf; j dgfpg
yflnPsf]klg !) cf; jif{k/f e0; s\$]f
5 . o; jif\$] wfg lbj ; gkfn s]if
cg; Gwfg kl/ifb -gfs{n]cfkn]dftxtsf]
afnLlj 1fg dxzfzvf, vdn6f/df / s]if
ljefun]eQm/s]axdf0f]df dgfP . awfg
pTkfbgdf j [cM/fli60 cytGqs]; d]cÆ
eG]gf/fsf ; fy /fli60 / :yfglo:y/sf
cfd ; f/sf dfWod dfkn krf/ k; f/
lj 1 / s]fsx? alr 5nkm, cGt/lqmf,
; dx÷; xsf/L alr ; fS]ts klto]ut
cflb sfo\$ d u/Ldgg0of].

gkfnLls; fgx?sf]nflu wfg lbj ; sf]/gS
Psft/ lyof]eg]csf]knsv/f Joj ; folx?
a8{kn'sf]rk0fdf kl//xsf lyP . gkfn'sf]
kj]lgfsdf cl3Nf jif?df kn'sf] ; kdf
of]/fh b]vk/]klg o; jif{eg]/fhwfgL
/ cf; kf; sf sfe] eQm/, sf7df08]df
Jofks ; kdf b]vk/]sf]lyof]. kz' ; jf
ljefusf]; lsPtdf s]if lj sf; dGfno
/ dftxtsf ; Dk0f]lgsfox?sf]; xofh /
; dGodf ; s]dt a]n/ sv/f gi6 ul/Psf]
lyof]. o; cj:ydf Joj ; fols sv/fkfn
ls; fgn]nfvf\$]gf\$; fgL Joxfg{k/}\$f]
5 . o; n]sv/fkfn Joj ; folx?nf0{t
df/df kn'of]eg]vl; , af\$fsf]dNodf eg]
ef/Lj]c u]of]. o; sf]c; / o; jif\$]f bz÷
ltxf/df ; dt b]vg]cgdfg ug{; lsG .

n\yx? k7fpbf Wfg lbg' kg{s'fx?

!= o; klqsdf hf]sf]In]k7fPsf]gkfnL efiiddf n\yPsf]s]if klj lw ux0fdf xfl; n cgejh6 n\ynf0{:yfg lb0g]5 . ; fy}s]if lj sf; df 6]f klg]; fdfhs, cfly\$ klfsf] ljZnif0fflds /rgfnf0{klg plrt :yfg lb0g]5 .

@= pkof]LcgbIt n\ynf0{klg :yfg lb0g]5, t/ dh n\yssf]gfd / lstfasf]gfd klg pNhy ePsf]xgkb\$. cfw/ ln0Psf]ny eP ; f]klqsf jf lstfasf]gfd klg pNhy ug{k\$.

#= n\yssf]gfd, kb, cfknsfo{t sfoffo / 7]f]gf :ki6; f pNhy xgkb\$. sfNkgs gfdaf6 5kfpq rfx]hgfpq'kb\$.

\$= n\yx? k7fpbf kl]t kff -!^ kf06_ df 6f0k ul/Psf]/ rf/]t/ !:~! 06r 5f\$] n\yPsf] k\$ / x]La9ldf !%)) zAbdf n\yPsf]xgkg\$ / ; f]n\ynf0{s]if ; r'gf tyf ; f / s]sf]0f]h agroinfo@wlink.com.np df k7fpg jf cfk]cP/ klg ; DalGwt zfvdf ae]fpg ; lsg\$.

%= n\ynf0{pkoQmk]f]k7fPdf ltgnf0{; d] ; dfj z u/L n\yx? k\$flzt ul/g\$.

^= n\ysn]ny k\$flzt eP jfkt kfpq]kl/>lds ny k\$flzt ePsf]Ps jif]leqdf ln0 ; Sg'kb\$.

&= o; klqsdf k\$flzt n\yx?sf]cf]z jf k0{efu hf]sf]In]klg k\$zfg ug{kfpq\$, t/ klqsfmf0{; Gbe{; fdfu]sf]_kdf lglb]6 ug{cg'fw ul/G .

*= k7f0Psf n\yx? 5ffg]g5ffg]jf s]Lkl/dfhg u/L5ffg]; Dk0{clwsf/ kwfg ; Dkbsdf lglxt /xg\$ / dfly pNhyt dfkb08 k'f gePsf]ny 5ffg ; Dkbs d08n afW xg] 5g . ck\$flzt ny lktf]lbg ; Dkbs d08n afW xg]5g .

n\yx?sf]k\$ / / kl/>lds

! d]ns cWog / cg' Gwgsf]glthf / vf]sf]cfw/df s]if lj sf; sf]ljleG klfd ; xof] k]fpg]ny !@) -!^))

@ ; Gbe\$]cfw/df tof/ kl/Psf]ny !)) -!@))

cgej Pj +; kmtfsf]cfw/df tof/ kl/Psf]ny *) -!))

\$ h]6P / a9Lcfd %) -^))

% slj tf, s]tkf0f0{yxf 5 < s]if ultlj lw / c6 5ff n\yx? #) - \$))

^ kl:tsf !%) -@))

o; klqsfndf k\$flzt ny, /rgf cblsf]ljifo tyf lj rf/x? n\yssf]lghLxg]ePsf]h

o; df ; Dkbs d08n tyf s]if ; r'gf tyf ; f / s] | hjfkb]L xg] 5g .

ljifo ; lr

s\vf kfg Joj ; folx? tyf cfd pkef\$tdf a8{km'
/f]usf]k\$fn]kfg]cfly\$ tyf dgf]fdflhs kefjx?

☞ 8f= s]f/ sfsk{

alp lahg Joj ; fo of]hgf- s.]lsg / s; /L<

☞ 8f= dfwj hfzL ^

vfg\$ /sf]uof:t/ sfod ug]; /n pkfoxç

☞ kdf] sf] /fnf !@
☞ lj ho /fh l3ld /

qm uf0{e}ldf ls6flzz /fh

☞ 8f= öbj zfx !%

a8{km} /fh j f /]hfgsf/L

☞ 8f= azLzdf{ !*

6öfDd6 /sf]lrgf/L / pkof]utf

☞ Zofds]of /hfn ! (

s]if hj]s lj]wtf, o; sf]dx]j tyf ; Af]f

☞ cgdf e\$ /f0{ @!

wgafnldf 9]fsf]pkof]l]tf

☞ ; fg' sz /Lahfrfo{ @§

s /Inf]v]Lklj lw

☞ lbn axfb' lai6 @^

abfdfs]dx]j tyf p]kfbg lj lw

☞ >Leuj fg 7fs' #)

h]6LP= / a9Lcfd Mcbj f v]L

☞ dbg sdf / ; j]L #%

sv/f kfnj Joj ; folx? tyf cfd pke\$tdf a8{km' /fj\$fsjks\$fn]kfg} cfly\$ tyf dgfj fdfllhs kefj x?

8f= s\$ / sfs\$

kf7eld

a8{km' 0km' Pch-P hftsf lj iff0sf]sf/Of dhtMkHfx?df nlfj?}3fvf\$ L h:tf]Ps ksf/sf]/fj x]. of]/fjaf6 hunL/ 3/kfnj f bjy/Isf kHfx? kefj t xg; Sg]eP klg dh 2kdf 3/kfnj f kHfx?df of]/fj lgs}3fts xg; S5 / ztkltzt; Dd dTo' u/fpg ; S5 . hunLr/fx? eg]/fj\$fsj]lj iff0' af\$ L xhf:j:Yo ; dt blvg ; S5g\ a; f0; /f0\$] sddf /fj Ps 7fpaf6 csf]7fpaf6 knfpg eldsf vlg ; S5g\ a8{km' /fj dVou/L b0{k\$ /sf xGg\Msd ; sfd\$ vnsf]/ clt ; sfd\$ vnsf]. kl5Nhf]bzsd\$ clt ; sfd\$ vnsf]Pr-kf0e-Pg-j fg sf]sf/Of lj Zj JofkL 2kdf kHfLJoj ; fodf 7hf]kefj kg{uPsf]blvG5 . a8{km' cknf lgs}k/fgf] /fj x]. t/ kl5Nhf] dosf]; sd0sf]z?j ft ; g\ ((^ df rlg\$]lj f\$8f kftaf6 z?j ft ePsf]dfgG5 . xEsEdf ; g\ ((& df dfg; sf] Hfg hfg]u/Lof]/fj kfnPsf]kli6 ePk5 o; sf]gofFrrf{z? xg klbf]. ; g\@) # blv sf]/of x\$}blf0f k] kPlzofdf of]/fj kfnj yfnkl5 o; sf cfly\$ tyf dgfj fdfllhs c; /x? a9L blvg yfngsf ; fy}lj Zj JofkL dxTj klg a9b}uof]. sdzmbf]/fj To; kl5 duflnof, ?; , dW k] {o'fk, clk\$ / blf0f Plzof; Dd kfnj klbf]. gkndf ; jkyd of] /fj ; g\@) (sf]hgj /Ldxgdf byfk/\$] lyof].

a8{km'sf]sf/Of dfgj lo Iflt o; /fj\$fsj]sf/Of ; of]dfg; n]cfnf]Hfg udf0; s\$ 5g\ lj Zj :jf:Yo ; u7gn]goldt 2kdf o; sf]tYofs cBfj lws ub5 . ; g\

@) # blv @) ! # hg @) ; Ddsf] tYofs cg; f/ xfn; Dd o; /fjaf6 ^#) hgf la/fdL k/\$f / To; dW] #&% hgfsf] dTo' ePsf] 5 . o; sf]cy{/fj nfu\$fdW]^) kltzt eGf s\$ a9Isf]dTo' ePsf]blvG5 . of]pRr kltztsf] dTo' b/ g} o; /fj\$fsj]; aGef vt/gfs kf6]xf]. clxn] Dd of]/fj kHfaf6 dfg; df ; /]klg dfg; af6 dfg; df ; /\$] olsg kdff0f 5g . olb lj iff0h]; j?k klj tG u/Ldfg; af6 dfg; df ; g; Sof/ oxLpRr kltztdf dTo' b/ sfod /x0f]eg]slt dfg; sf] dTo' xhf eG]lrGfn]g}of]/fjnf0{clt dxTj k0f{dfgPsf]xf]. of]/fjaf6 !% bzd\$ dfg; la/fdLk/\$f 5g\eg]!@ bzd\$ d/\$f 5g\ ; aGef a9L08f]zofdf !%& To; kl5 leotgfddf ^! hgf / Ohk6df ^) hgf d/\$f 5g\ l5d\$ L bz rlgdf @* hgf / blf0f PlzofnLbz kls:tfgd ! hgfsf]dTo' ePsf] tYofs 5 . To; afx\$ yf0Nof08, ch/ahfg, sDaf]8of, 0/fs, ncf], gf0h]/of / 6sIdf dfg; x? a8{km'sf]sf/Of d/\$f]k0G5 .

a8{km'sf cfly\$ c; /x? a8{km' /fj\$fsj]axcfolds c; /x? xg]xhf olsg; fy olt g}cfly\$ Iflt ePsf]5 eG lgs}s7lg xG5 . o; /fj]nc6 ; sfd\$ kz' /fjx?n] h:t} dVot tlg k\$ /n] c; / kYofp5 . klxnf]pTkfs -sifs_ / kHfL pTkfbg k0fnL; F hf]8Psf Joj ; folx?nf0' kHf]sf]dTo' jf la/fdIsf]sf/Of pglx?sf] nufgldf Iflt kYofP/ . bf] f]; /sf/n]rnf] lgoG0sf]sbdx?sf]sf/Of cfnf]kndf /fj eP klg, geP klg sifsx? kefj t xg



kl5g\ t] f]o; /f]hsf]sf/Of pTkGg xg]ahf/
 kltlsøfsf]sf/Of kHfLsf]dfudf xg]ptf/
 r9fj sf] sf/Of Joj; fodf kg] Ifltsf]
 sf/Of . a8{km'sf]sf/Of ; ÷f/e/ kl5Nnf]
 bzsdnf nfv]sf]; Vofdf kHfL? d/\$f 5g\ t/
 To; sf]søg uOff a9LkHfL? /f] lgoGqOfsf]
 nflu gi6 ul/Psf 5g\st}Ifitklt{lbp/ st}
 glb0sg . t/ slt kHfL d/] Df/of]eG]
 ; Gbedf tYofsx?df Ps 2ktf kf0hg .
 cfh; Dd gi6 ul/Psf kHfLsf]cf} t t]h !
 s}hL= dfGf / cf} t dNo gkfnL?= !)
 dfGf dfq}klg !* ca{gkfnL?koffa/fa/sf]
 t kHfL? dfq}dfl; Psf 5g\ gi6 ul/Psf
 kHfL?sf]pd], t]h, k\$/ -h:t}a}n/, nø; {
 kof/06, nf\$ n_ cflbsf]olsg tYofs gePsf]
 / b}z cg; f/ dNo kms xg]x}f 7øfSs}dNo
 yxf kfpg cToG}S7lg xG . gi6 ul/Psf
 c08fx?sf] tYofs ; d} o; df ; dfj }
 5g . /f] lgoGqOfsf]sd}df vr{xg}7hf]
 wg/fzL/ /f]hsf]lgu/fgL/ lgbfg ug{nflg]
 vr{x? ; d} hf\$g]xf]eg]a8{km'sf]sf/Of
 ePsf]Ifit lgs}dfly hfg ; S5 . ljleG
 b}z?df a8{km's}sf/Of ; f]b}zsf]eG]g/L
 ; jf ; b}9Is/Ofsf]nflu ; d} ljZj a}S
 nufotsf bftx?n]c/a}sf]wg/fzLnufgL
 u/\$f 5g\

leotgfddf ul/Psf]cWog cg; f/ ul/a
 kHfLkfnS sifsx?n]cfkmg]cf]DbfgLsf]!)
 kltzt hlt gf\$; fgL Aoxf]f]sf lyP eg]a8{
 km' lgoGqOf ug{kHfLdf/Psf]sf/Of sifsx?n]
 sh cf]DbfgLsf]cf} tdf @! kltzt udfPsf
 lyP eg]Jofkf/ kltAGwsf]sf/Of)=* kltzt
 udfPsf]b}vG . ef/tsf]klZrd a}fndf
 udf]Of kHfLkfnSx?n]cf} tdf !(cd]vSL
 8n/ udfPsf lyP .

a8{km' /f]hsf]sf/Of kHfLhG pTkfbgx?sf]
 dfudf xg]ptf/ r9fj x?n]klg lgs}k}efj
 kf/\$f]xG . /f] b}vPsf]; do j]kl/ kHfLhG
 pTkfbgx?sf]dfudf sdLcfp}f ahf/ dNo
 klG slx 36\$]b}vG . o; sf]k}efj :j?k
 ahf/df cG df; x?sf]dNodf j]c ePsf]
 b}vG . h:t]ls leotgfd / sDaf]8ofdf
 kHfLhG afx\$sf]df; }sf]dNodf ; g\@) \$
 sf]; sd}Of tfsf #) kltztn]j]c ePsf]lyof]
 eg]6s]df uf0\$]df; }sf]dNodf !@ b}v !%
 kltzt / OlhKdf !% kltztn] j]c ePsf]
 lyof]. gkfn}df klG olsg tYofs geP klG
 a8{km'sf]; sd}Of ePsf]avt v; ls]df; }sf]
 dNodf j]c ePsf]lyof]t/ /f] ; lsPsf]slx
 ; dokl5 kHfL cfklt}df xg]sdLsf]sf/Of
 kHfLsf]dNodf ; d} j]c ePsf]b}vG . o:t]
 l:yltaf6 slx sifsx? ljZjfu/L7hf pTkfbx?
 a9Lnfe]G t ePsf]b}vG . of]/f]hsf]sf/Of
 kHfL bfgf pB}fx?n]klg gf\$; fgL Aoxf]gk]
 xG . 008f]zofdf ; g\@) \$ sf]; sd}Of
 bfgfsf]dfudf \$) kltzt n]sdLcfPsf]
 lyof]eg]; g\@)^ df 6s]df ^ b}v !!
 kltztn]/ OlhKdf &) kltzt sdLcfPsf]
 lyof]. a8{km'sf]sf/Of sifS; f} kHfL v/b
 u/Lahf/; Dd nhfg]lar}nofx? klG k}efj t
 xg ku\$} lyP . nfc] df leolGg j]kl/
 /f]hsf]; sd}Of b}v}f kHfLcf] f/k; f/df nufPsf]
 @ dlxg]kltAGwsf]sf/Of lar}nofx?sf]
 cf]DbfgL \$) kltztn]36\$]lyof]. gkfnS}
 pbfx/Of lng]xf]eg]enfksf]z/Of]dltf ; g\
 @) (df a8{km' lgoGqOfdf vl6b}fsf]nyssf]
 Jo]Stut cgej df Toxf]f w}lar}nofx?n]
 cf]DbfgLsf] 7hf]lx:; f udfPsf lyP . t/
 gkfn}df o; af/df cWog gePsf]jf eP/
 klG kltj}hg ; f]g]l}hs ?kdf pknAw gePsf]
 x}f tYofs eG ufxf]5 . la\$/ krfd{x?n]
 ; d} pTkflbt Pslbg]rNfx? glaSf rNf

uf8g' k/\$f]sf/Of jf ; :tffl aRgk/\$f]sf/Of
 gf\$; fgIx? Aoxfg{kg{cj:yf cfof]eg]a8{
 km'sf]xNf ; fDo ePk5 kg dfu a9bf
 rNfnsf]dNo a9f0{; f]gf\$; fglnf0{k'f u/\$f]
 b]vG5 . kHf]sf] cf]fw / Eof]S; g aRg]
 Jofk/ix?sf]Jofk/df ; dt ; :ttf cfPsf]
 sf/Of cf]bfgIx? udfPsf]pbfx/Ofx? 5g\
 Ps cWogsf cg' f/ 6slkf ; g\@)^ df
 kHf]sf]cf]fw / Eof]S; gsf]Jofk/ @ (klztzn]
 36\$]lyof]. /f] lgoGOfsf]nflu h]j s ; /If
 dhat ug{nfg]vr\$]sf/Of klg kHf]pTkbfg
 dxuf]aG ku\$]5 eg]o; sf]sf/Of slt
 /f] ; sdOf sd eof]; f]sf]cWog xg]xf]
 eg]of]vr\$]; sf/]ds kefj klg b]vg
 ; S5 . o; /f]haf6 xg]cfly\$ gf\$; fgLHfb]
 uDeL xG5 . o:tf]gf\$; fglnf0{w}}s'/fx?n]
 lgoGOf u/\$f]xG5 . h:tMlj iffOfsf]pkhft,
 cG /f]sf]k\$fl, jftj/Of tgj, sv'/sf]
 pd], lnE cfb . Pr-% Pg= ef0/; af6 xg]
 cfly\$ gf\$; fgLlgDfg'; f/ 5 .

/f] nfu] xg]gf\$; fgLsv'/f krfd'af6 ; a)
 sv'/f x6fp] jf df/] uf8g' kbfls; fgnf0{
 lb0g] Ifltkt'af6 xfn; Dd g'kn ; /sf/n]
 s/lj # s/f\$ lbPsf]5 . sv'/f x6fpg / tx
 nufpg]sfo{ug{kof]zfnf vr{Joj:yfksl
 vr{ /f]sf]/f]syf ubf{xg]vr{ krfd\$]
 lg; sdOf ug{ Jofk/s 3f6f ; jbz'Laofk/af6
 xg]3f6f ; /sf/n]pkTosdf ; a}vfn]sv'/sf]
 cf] f/ k; f/ tyf sv'/sf]df; 'lasLlj t/Ofdf
 nufPsf]sf/Of sv'/sf]df; 'dfq lasLlj ug]
 (% klztz k; n aG xbf !* lbgdf ^ s/f\$
 3f6f ; xg' k/\$f]5 .

a8{km'sf dgf] fdlhs c; /x?
 a8{ km'sf] ; fdlhs c; /x? klg lgs}
 xG5g\ cfly\$?kn]kg{c; /sf sf/Of kg]

; fdlhs c; /x? afx\$ cG ; fdlhs c; /x?
 ; dt 5g\ h:tf]ls dgf] l]lgs c; / . o;
 :tDesf/sf]enkf / sf:s]sf]; sdOf lgoGOfdf
 efu lnbf]sf]JolStut cge'jdf klg /f]
 b]vPsf]3/ j]/kl/sf l5d\$In]; f]3/nf0{eo
 / ; af; sf]b]6n]xg]{u/\$f]kf0of]. sltko
 cj:yfdf t ; f]3/df hfg}8/fpg]cj:yf
 ; dt b]vof]eg]/f] lgoGOf 6fhL ; fDo
 sk8f -JolStut ; /If ; fdfuL df hbf
 aRfx? 8/fpg]/ dgf] l]lgs ; kdf ql; t
 xg]u/\$f]kf0of]. o:tf c; /x?sf]cfly\$ dNo
 geP klg o; n]dfg; sf]dgf] 1fgdf kfg]
 c; /nf0{cf]f lrldng eg]ldNbg . /f]
 lgoGOf ug{ahdf /f] b]vPsf]If]x?df
 ul/g]lj Bfno aG h:tf s'/fx?n]; dt ; dhdf
 c; / kb5 . To:t}o; /f]sf]sf/Of sbg
 dfg; x?n]cfkng]/f]uf/Ludfpg k5g\eg]
 sltko s]fsx?n]cfkng]kzf kl/jtg u/L
 cG Joj ; fo z? ub5g\ ljz]fu/L ; fgf
 s]fsx?df o:tf]c; /x? a9Lb]vG5 . cfkng]
 3/sf]kof]hgsf]kHf]klNg]s]fsx?n]k]6gsf]
 ; ft udfpg]xbf o; n]kfg{kfj dNofsg
 ug{k]g sl7g 5 .

a8{kmh]ljZj kHf]Jofk/df kYofPsf]kefj
 a8{km' /f]sf]a9bf]k\$fl]sf]afahb ; #f/e/sf]
 sv'/fhG pTkbfgx?sf]vkt eg]lg/G/ ?kdf
 a9Lg}/Xof]. ; g\@)^ ; Dd ljZj sf]sh
 kHf]Joj ; fo sl/a !) lalnog 8n/df klbf]
 h; dW]sl/a & lalnog 8n/ ckz]wt kHf]sf]
 / sl/a # lalnog 8n/ kz]wt kHf]sf]lx.; f
 lyof]. t/ ; dudf a9\$]ePtklg o; /f]n]
 ubf]ljZj kHf]Lahf/df lgs}ptf/r9fjx? eg]
 cfPsf]b]vG5 . o; /f]n]ubf{kHf]Joj; fodf
 /f]sf]; sdOf ePsf lgoftstf{bz'x?n]cfkng]
 lx.; f udfP eg]/f] gePsf bz'x?n]cfkng]
 lx.; fdf ef/L ; kdf a9fQ/Lug{; km eP .

udfpg]dVo lgoffstf?df yf0Nbf08 / rlg
 kd\ v ; kdf /x]eg]lgoff Xj fQ}a9fpgdf
 aflhn cu:yfgdf /x\df. lj 1n]u/\$f]celnysf
 cg; f/ yf0Nbf08sf]; g\@) # sf] ^)) ldnog
 cd\ /sL 8n/sf] kHlsf] ckzflwt df; 'sf]
 lgoff Jofkf/ ; g\@) % ; Dddf nueu zGddf
 em\$fl]yof] eg] oxL cj lwdf rIgn] #))
 ldnog cd\ /sL 8n/sf] Iflt Aoxf] \$f] lyof]
 t/ aflhnsf] Jofkf/ eg]; g\@) # blv @) ^
 sf]alrdf !-% ldnog cd\ /sL 8n/n]a9fQ/L
 ePsf] lyof] . ; eSt /fHb cd\ /sfsf] Jofkf/df
 eg]vf; }ptf/r9fj cPsf] blvPg . o; /L
 ; du]ljZj kHl Jofkf/df a8{k m'sf] kfej
 vf; gk/]klg bZ lj zifsf] s'f ubf{a8{k m'
 ; sdOf ePsf 7hf lgoffstf{ bZx?nf0{
 gs/flds c; / k/\$f] blvG eg] a8{k m'
 ; sdOf gePsf 7hf bZx?n]o; sf] krf0f
 p7fPsf] blvG . a8{k m' ; sdOfn]ljZj kHl
 Jofkf/sf] cfoft lgoff tl/sdf eg] cfdh
 kl/j tG cPsf] blvG . lj zif u/Lof]/f] sf]
 sf/Of ckgf] lgoffnf0{sfod /Vg yf0Nbf08
 / rIgn] 7hf] nufgL u/L kZfvg pBfux?
 VfhL lgoffnf0{ ckzflwt kHlaf6 kZflwt
 kHldf ; f/\$f] blvG . km:j?k yf0Nbf08n]
 kZflwt kHlsf]; g\@) # sf] %^^ ldnog
 cd\ /sL 8n/sf] Jofkf/nf0{ ; g\@) ^ df
 !!*% ldnog 8n/df kYof] eg] rIgn]; g\
 @) # sf] \$(@ ldnog cd\ /sL 8n/sf]
 Jofkf/nf0{ ; g\@) ^ df & (ldnog 8n/df
 kYof]. kZflwt kHl pTkb gdf Jofkf/ klTj Gw
 gnfg] ePsf] sf/Of of]kl/j tG cPsf] xf].

blifof Plzofdf a8{k m'
 a8{k m' /f] haf6 g/fd/Lkfej t If] dV] gkfn
 /x\$] blifof Plzof klG Ps xf]. blifof Plzofdf
 >Insf / dflN E; \afx\$sf dhsdf of]/f] h
 blv; s\$] 5 eg] aunfbZdf of]/f] :yflkt

e0; s\$] ljZj f; ul/G .

cGtdf Pp6f lgZsif
 dflg; sf]:j f:Yo ; fdflhs, cfly\$, j ftj /Oflo
 kfej, vfgsf] k\$] t, df} dLkl/j tG cflbn]
 kfej t ePsf] xG . hg:j f:Yosf] bl] 6sf] 0fn]
 a8{^n' /f] nf0{gs} dxTj lbOPsf] 5 . cflsn
 a9bf] hg; Vofsf] rfk, ; 3g vtL kOfinL /
 ljZj Jofkf/ ; 3n] ubf] lj bZLpGt kzkHlsf]
 cfoft j f lgoff a9L /fv\$] h] Plzof, clkf /
 / o'f] kdf of]/f] sf] k\$] k a9L/x\$] 5 . o; /L
 PSsf0; f] zt f] bldf b] yf k/\$f] of]/f] un] kzkHl
 / dflg; nf0{; dt ; eadOf ug] ePsf] n] e\$] /g/L
 / d] 8sn lkthl; Pgx?n]; dG o u/L Ps}
 :j f:Yosf] cj wf/Of cg; f/ dflg; / kzkHl
 bj \$] h] lj g /If ug] {kg] blvG . e\$] /g/L
 / d] 8sn lzIfdf s; /L kzkHl :j f:Yo /
 hg:j f:Yon] Ps csf] kfej kfb\$ g\ eG]
 s'f lj Bfy] h] f0[; sfpg' kb\$. e\$] /g/L /
 d] 8sn j] flgsn] Ps cfk; df ldn]
 hg:j f:Yodf ; /f\$ / /Vg] a8{^n' /f] sf]
 cg; Gwg u/L gof] gof] f] sf] lj sf; ug]
 cflnsf] cfj Zostf blvG . /fhn] cj nDag
 ug] glt n] gful/ssf] h] lj gz] hL h] lj g:t / /
 h] lj gsf cG klnf0{ kfej kf/\$] xG .
 hg:j f:Yo dfgj lj sf; sf] Pp6f kf6f] ePsf]
 o; nf0{/fHb; f] sf]; DaGwn] kfej kfg] s'f
 :j tMz4 5 . hg:j f:Yosf] lg] dt cfl] us
 / j ftj /Oflo g] lt TolQs} dxTj kOf] xG . of]
 /f] bZe/Lk] ng glbg sv'f kfg Joj ; fo; f
 ; DalGwt Joj ; foIx?, sd\$ f/Ix? /
 pkef] 0rx?nf0{ ; r] tgf hufpg] vnsf
 sf] 0rdsf] sf] og ug] krd] h] lj s ; /If
 ckfpg] ; do ; dodf kof] zfnfd k/IfOf
 u/fpg] / pkef] 0rx?n] sv'/fhG kbfy?
 /fd/LksfP/ vfgkb\$. ; fy} kz' ; j f lj efu,
 :j f:Yo ; j f lj efu / sv'f kfg Joj ; foIx?

alr ; dG o u/Lsj f/06f0gnf0{s8f0sf; fy
 nfu"ug{; sdf ev{km6fp5}u/\$f]k]6k
 pBf]usf] eljio cfhsf lbgdf hfufpg
 ; lsPnf . o; p; n] sv/f kfns ls; fgn]
 a9Lh]s ; /Ifsf pkfo ckgfpg' plrt /
 o; af/]ahfdf ; rgf kj fx, k]f]sf]zsf:kb
 dTo'ePdf bt lgbfg sg}7fp5f o; /f]usf]
 ; s]d0sf]kli6 ePsf]ahf /f] lgoG0fgsf]
 bt pkfo ug{; lsg]5 . xg cfh h:t}sv/f
 kfng Joj ; folx?n]cfkmgf]k]6k pBf]udf
 d/\$f sv/f af6fdf ldNsfpg]clg la/fdL
 sv/f ahf/ k7fpg]xf]eg]sv/f kfng pBf]u
 Joj ; fo hf]vddf klg b]vG5 . lsgeg]
 Joj ; folx?sf]; u7t bafj df ; /sf/Lg]lt
 lg06 kef]j t kfg{; lsPnf t/ a8km'/f]usf]

lj iff0sf]k; f/0fnf0{o:tf kof; n]keflat
 kfg{; s]Pnf h:t]5g . o; nf0 eStk/
 lhNfdfdf /f] kmf k/\$f]3f]f]0f kl5 lgoG0f
 sfo{yf]nf; Dd l; hgf ePsf]:ylt tyf cG
 7fp5f af/df ; k]f]0f ul/Psf ; dfrf/n]cfd
 hgdg; df k]vofPsf]kef]j n]b]vPsf]5 .
 lsgeg]o; /f]usf]xNf x]f dfq}klg lautsf
 lbgx?df g]k]ndf dfq}ge0{lj sl; t b]x?df
 klg ^) kl]tzt eGf a9L]dfg; n]sv/f]sf]
 df; 'vfg 5f]sf clen] 5 . Joj ; flos
 ljZj f; lgotf b]v]fpg]k]nf]ca sv/f kfng
 Joj ; folx?sf] lhDd]af/L xg ku]sf] 5 .
 *nysM50]b kz'/f] cG]f]0f kof]zfnf lqk/Zj/df
 j]l/i7 kz' lrlsT; s kbdf sfo{t xg]xG5 .

s]fs / df6f]

; fer]eb]ls; fg ael0f/ExFd >dsf]cf`g}klxrfg xF

dfG]lgwg xFtykLdgsf]; d4 0G; fg xF
 d]f]b]z p7fpg]>d]ssf]x]kfv/]sf]an
 ; Rrf ;]s /f]6]sf]; kt xF; Tofqsf]j]ej
 df6f]h]jgsf]cdNo uxgf df6}); ufl/sg
 df6f]r]dag ub\$'d vlzn]v]f]d]f]dg
 df6f]leq ; x; yf/ kl; gf kfy] l; xfp5'
 af]f]f]f]vbg vt ?G dg of]hft] ; Dofp5'
 ; Vf df}ddf klg d lj?j f /f]k] x'sfp5'
 nfv]k]m kmfp5' / km]sf eGf/ leqfp5'
 cfk]n]v]f]0{gv]f]0{b]z e/df km]m] 6q]fp5' .
 d]f]k]v leq uj {/fv]g]cfsfzsf]l]bks
 d]f]h]f]f] / leq km] km]g]ljZj f; sf]; r's
 d]f]h]f]f] /df k]k]m] dgn]of]b]z d':sfp5'
 afx}dfif l; ufl/P/ w/tLr]f]Lgof]f]fp5'
 afx}dfif l; ufl/P/ w/tLr]f]Lgof]f]fp5' .

kf; = d]0f/fd bj f8L
 s]f]f ; j f s]b]6fy]h, eQ]k]' .

alp lahg Joj ; fo ofhgf- s,] lsg / s; /L<



8f= dfwj hfzL*

alp lahg Joj ; fo ofhgf s] xf] <
alp lahg Joj ; fo ofhgf eg\$] Pp6f
k\$] sf/LJoj :yfk\$lo k4lt xfh; n]sffssf]
alp lahg Joj ; fonf0{s; /L ; fng ug]
eG] s/fsf] v\$sf k\$fg ub\$. o; n]
Joj :yfk\$lo ; fngsf] ; kdf Joj ; flos ofhgf]
kff ugkgnlo? lgw{of u5{/ ; kmtkj \$
Joj ; fo rnfpg ; 3fp5 .

alp lahg Joj ; fosf] cfj Zostf lsg <
gkfn\$ bu\$ kx8LlhNfx?df slf pTkfbg
36b} hfg\$] lj lj w sf/Ofx?dW} k\$] sf/L
?kdf alp lahg pTkfbg, cfklt{tyf lj t/Of
kQfnIsf]cefj g}Ps kd v sf/Of xf] . ; :tf]
/ uOf:t/oQmalp pTkfbg :yfglo:t/df g]
pknAw u/fp/ lhNfx?nf0{alp lahgdf
cfldlge{ u/fpg' ; dosf]dfu xf] . o; df
alp lahg Joj ; fonf0{gkfdvLsDkgsf]
; kdf :yfkf ug{kdv nlo /flvPsf]xG
tfs of]bluf]?kdf ; fng xcf] / pGlt
ub{hcf] \

pBdzIntf s]xf]<
o; df Joj ; fo, pTkfbg ofhgf, ahf/Is/Of
ofhgf, cfly\$ ofhgf / hgziQmofhgf?
kb\$g\ pBdx?n]s]u5\$ eG]s/fsf]j Of\$
g}pBdzIntf xf] . pbf/Ofsf]nflu pBdx?
JolQmt kof; u/] pBd ; DaGwLvt/f dflg]
jf gdfng]eG]af/]cgdfg ub\$g\ o; df
; ft ; sng u/] gofJoj ; flos sfdx?
ul/G . ; fy}o; df gj lgt d lj rf/x? ; dfa\$
ePsf]xG h; af6 ; d:ofx? ; dfwg ug{
rgfLx?sf]; fdgf ug{cyjf /fd/Lkl/eflft
ul/Psf]ahf/sf]cfj Zostfnf0{; Gti6 kfg]
vfnsf ultlj lw? kb\$g\

alp lahg Joj ; fo ofhgfdf s; /L tof/
ul/G <
ofhgf ; /n efiffdf n]vPsf]xgk5{t/ To; df
k\$] ul/g]; ft / ; fwx?sf]la:t\$ lj j/Of
; dfj \$ ePsf]xgk5{/ tL; ftx? s; /Lkff
xG\$tyf pBdnf0{s; /L ; fng / Joj :yfk
ul/G eG]s/fx? vnf0Psf]xgk5{. sg}
alp lahg Joj ; fo ofhgfdf cfsif\$ cfj/Of
k[7 xG / To; leq kd v cu\$? ; ltsf]
lj ifo-; lr ; dfj \$ ul/G h; df kl/ro,
kl/rng ofhgf, lj Qlo ofhgf, ahf/Is/Of
ofhgf, Joj :yfk ofhgf / pk-; f/
kb\$g\

kl/roleq cfj/Of k[7sf]v\$sfdf kfg{kgl
Aoxf]fx?

!= pBdL ; yfsf]gfd

@= ; Dks{7hgf, 6lnkfg g#

\$= Ofh 7hgf

%= ; yf hgfp]cf]w\$fl/s ; /n lgzfg
5fk (Logo) /

^= Joj :ffo÷pBdsf]gf/f

&= ldlM; fn, dlxgf, ut]

!= kl/ro

=====; xsf/L
; yf ln= sifs ; dxsf]:yfkf @)^= df
ePsf] xf] . of] =====lhNfsf]
=====uf-lj =; = df kb\$. o; df
=====; b:ox? 5g h; dW}=====k?if
/ =====dlxnf ; b:ox? 5g .
; yf :yfkf ug\$]sf/Ofx?df alp pTkfbg
ug{tyf ; f\$]cfGt/s Pj +afx\$ ahf/sf]
cgdfg byfpg, sg}lgZrt ; do cj lwdf
; yfsf]gub kj fx slt ; Dd ug{u/fpg]eG]

s/f lglZrt ug{ ; :yfsf]sf/fj/ Ifdtf slt ; Dd xG jf xg ; S5 ; f\$]k]f]Of lj Qlo lgsfox?nf0{ki6 vhfpg, Joj ; fonf0{ km kfg\$]nflu ; kmf]sf ; Def]otfx? a9fpg ; :yfsf]pBdzIntfsf]dNfsg ug{h]vdsf] Gg]s/Of xg]u/L of]hgf tof/ kfg]t]ls pB]f]sf] ; fng ug{o; n]dfu{lbfz lgbz u/f] v qndf ?kdf o; nf0{ Gbe{; fdul]sf] ?kdf lng ; lsof] , cfkmg]pBdzIntfsf] jhf/Is/Of / sf/fj/ a9fpg / cfkmg] Joj ; flos nlo / pZox? s; /Lxf; n ug] eG]s/f byfpg . o; k\$]sf]Joj ; flos of]hgf dVotof lgDg # kZgx?sf]pkotm pQ/n] dfq ; lglZrttf to ub5 . s_ cTofj Zos ; f]tx? s] s] 5g < - dfgj lo, lj Qlo, cfb_ v_ oL ; f]tx? sx]f]f6 k]f]t xg] 5g < u_ oL ; f]tx? s; /L pkof] xg]5g <

/fli6 alp lahg ; ldt cG]t]tsf sg}klg afn]sf] hftlo pGdf]g÷cgdf]g÷btf{ pk-; ldt af/f pGdf]rt÷l; krf/z÷; lrs] ul/Psf / xg]hftx? ; :yfsf]alp p]kfbg sfo]rd]f ; dj z xgkg{xG . oLhftx?sf] p]kfbg Ifdtf a9LePsf, l56f]k]Sg] /f] gnf]g] ; :tf/ pRr uOf:t/oQmePsf]sf/Ofn] ; :yf Pj p]kfb]sau]f]0{; d] nfek] ; flat xg]5 . pk/f]Qmsf/Ofx?n]ubf]lgs6 eljiodf alp Joj ; fo]s/Ofdf /fd]d]dgfkrn xg]5 . o; af6 ; :yfsf]pH]n eljio :flglZrt xG . kmf]gf]g]f]dsf] ; :yf ln= Ps gd]fhG alp Joj ; fo]s/Of ug] ; :yf xf. o; nf0{; DalGwt lhNf s]if lj sf; sfo]hon]tyf l8lehg ; xsf/Lsfo]hon]:y]k]gf ug{; xof] k]y]fpg] qndf 5 . o; nf0{lgs6 eljiodf alp lahg sfo]f?nf0{Joj ; flos ; kdf :y]k]t ug{ o; sf]k]v nlo /x\$]5 . o; cG]tu]t en]8}

= hgf cu]f s]fsx? ; b:o xg' xG / ; :yf; f s/f/gdf u/] -cyj 3Dt s]f]af6 /sd :j lsf u/fp/ ; d] lgodfg' f/ COf lnP/_ alp p]kfbg ug{s]fsx? (Contract Farmers) dW]ulgg' xG . ; :yfsf] = ; b:olo Ps ; fns ; ldt 5 . cWIf; f w]}jif\$]n]df]cge] 5 / alp p]kfbg sfo]f]0{Joj ; fosf] ; kdf :y]k]t ug{u/fpg px]f]7hf]of]b]f]g 5 . ; :yf ; fngsf]nflu cfj Zostf x]Ldh ; ldt cG]tu]t :f]f]hs ; kt hdd #-% hg]sf]lj leG pk-; ldtx?sf] u7g, Itgx?sf]sf]d, st]o / clwsf/ t]f]sg] u/Lsfo]lj e]hg ; fw/Of ; eaf6 kf/t u/f]0{ ; f]nfu"; d] ug{k]g{xG .

@= kl/rfng of]hgf -Operation Plan_ -s_ ; :yfsf]nflu cfj Zos hldg hfob]b / jftj/Of ; x]p]f]e]f]ts :f]rgf sfo]fo 3/, u]f]d, alp r6g]/ bf0{ug{v]n]ofg tyf afn]leq]d]p/ /f]g]vNf 6x/f\$]Joj :y]k]g, alp p]kfbg, k]z]f]v]g tyf eOf/Ofsf]nflu cfj Zos b]v]Psf lj leG d]zg/L cf]h/x? -t]f]g]Aof]f] ; lr:ofg g]f]g]oG, alpsf] gd]g] lng] ; fwg, alp kf\$]f kfg]af]f / k]fli6sx?, alp pkrf/ ug{xft]d]zg / lj ifbL, af]f l; pg]d]zg, cfb_ , Pj +e]f]ts :f]rg]sf] ; d] :y]k]gf, alp p]kfbg ug] ; b:o s]fsx?sf]nflu z?sf]cj :y]df s]L jif{s]slt p]kfbg ; fdfu]k? pknAw u/fpg] s/f of]hgfdf xgk5{ . o; sf]nflu ; :yfsf] alp p]kfbg of]hgf, cfj Zos p]kfbg ; dful]sf] of]hgf ; f] dh alp, dnv]b lj ifbL cfb, sd]f/L p]k]Of] of]hgf]sf] ; f] ePsf]xg' kb5 . ; :yf; f s/f/gdf u/] alp lahg v]Lu/\$]f s]fsx?n]sRr alp p]kfbg tof/ u/] af]f s:tLu/Psf]cj :y]df ; :yfn]0{ laqm ug{k5{h; sf]dNo lgwf]Of afn]leq]d]pg]dlxg] ; Ddd e0{; s\$]f]xgk5{.

x/\$ cfly\$ aiflf lhNf s|f lj sf; sfoffon] lhNf :t/lo alp lahg cfdldge{ ; xofh sfoqmdf ; xefuLxg|s|fs ; dX÷; xsf/L ; ÷yfn]egkg{alh j|4 s|fs ; dXsf]lj j/Of knf/d tyf lhNf s|f lj sf; sfoffon] DISSPRO cG/ut lj zif ; xofh sfoqmdf cfj 4 x'g rfxgh] alh j |4 s |fs ; dX÷; xsf/|sf]; xdl t kq / lj j/Of lhNf s|f lj sf; sfoffodf e/| k7fpg' k5{. lhNf s|f lj sf; sfoffon]klg cf-cfknf] lhNf cG/ut sg sg s|fs ; dX÷; xsf/ln] lhNf:t/lo alh j|4 cfdldge{ sfoqmd tyf pTkfbg lj j/Of eg{kg{xf]; f|e/L; DalGwt Ifqlo alp lahg kofh zfnfdf k7fpg' kb5 / v| lg/llfOf]nflu alp lg/llfOf ug| kf]j lwsnfO{ ; DalGwt lhNf s|f lj sf; sfoffon]cg/fvkq k7fpg' k5{/ cfj Zostf cg; f/ oyf; dodf ; a}; dXsf ; a}alp afnX?sf]v| lg/llfOf u/fPsf]xg' k5{ ; fy} alp pTkfbg tyf lj lqmj t/Of klqmfsf]; Gbe{ s]s:tf]lj z|ftfdf snf ; lk / 1fgsf] cfj Zostf k5{; f\$]cg'dfg ug{/ To; sf] cfkl't{; Dj GwL tln d, ; lk cflb s; /L to ug{eG|af/]; f| xg' kb5 . s/f/gdf u/L ; ÷yf; f| alp pTkfbg ug{|s; fgx?sf]alp vl/b u/| :f:ysf]u|ffddf /Vg x/\$ l; hgsf] Ps lgoldt klqm f xg]5 . o; sf]nflu alp vl/b ug{|kHL (Capital) sf]Jo j:yf xg' kb5 . o; tkm; ÷yfn]ug{kg|qnds % sbdx?df lgDg s'/fx? kb5g\M

★ s/f/gdf ug|pTkfb s; fgaf6 kdffOft xg]t/ kzfvg xg kg{:t/sf]ckzflwt alp v/lb ug|

★ alp ; sfpg]kzfvg, ulB^a/ alp pkrf/ ug| kfs ug{|tyf eO8f/Of ug|

★ oyf; dodf ; DalGwt cflwsf/s tl/sfaf6 ; a}n6sf alpsf]gdg lng nufO{alp hff

u/fO|/kf{ing]

★ pkotm; fOhsf]kfs u/fO{kTo\$ kfsdf alpsf]; s|t kq ÷gfd kq /fVg](Bagging & Tagging)

★ alpsf]dN lgw{Of ug| alpsf]cfGt/s tyf j fxð Ifqdf ; d|t vktsf]nflu lj t/Of / ahf/|s/Ofsf]Jo j:yf ug|.

#= lj Qlo ofhgfm

lj Qlo ofhgdf cfj Zos tyf ckllft lj Qlo ; f|x?sf]5nkm ePsf]xg' k5{. ; dli6df lj Qlo ofhgfsf]; kdf ; dfj z xgkg{s'/fx?df vr{x?, laqm lj t/Of Pj +gkrfsf]ofhgfx? kb5g\ h; n]lgDg s'/fx? b|yfpq] cg'dfg ug|of 5nkm ug|h:tf s'/fx? ; d]6Psf] xg' k5{.

vr\$] n|fhfyf]sf] efu (Cost element) != alp pBf]sf]sh vr{slt xfhf cyj f alp Jo j; fo|s/Ofsf]nflu kf/ldes lj Qlo ; f|sf] cfj Zos vr{slt nlfh ; f]sf] n|fhfyf /fVg]/ Ps jif{ Dd ; fngdf s] slt vr{ug|cflb s'/fx? ; dfj z xGg\h; df hldg / e|ts lgdf, dlzg/Ltyf cfhf/x?, pTkfbg ; fdulx? -dh alp, dnvfbx? cflb, e|ts ; fdulx?sf]cfkt{k-yhdf kfs ug| alp pkrf/ ug|cflb_ / kzf; lgs vr{ kb5g\

@= cfly\$; f|sf]Jo j:yfkg s; /Lug|eGdf cfGt/s jf cfkn}nufgL z?sf]cj:yfdf slt dfqdf cfkn}; f|af6 ug{|; lsg]vr{ ; fdbfos nufgL, COf / COf lnOg]ePdf s] slt dfqdf COf rlxPnf ; f\$]lgw{Of ug| tyf s]s]lwtf\$]; f|, cgbfg ; xfotf lng] ; Deflo ; f|x?, cfly\$ s|fsf c? sg}; f|x? ; ÷yfsf]l:y/ kHL / rfn' kHLsf]; f| / Jo j; fosf] k|f]kt sh vr\$] cg'dfg cflb .

arlavgsf]nyfhf]fs]efu (Sales element)
 cfkn]Jofj ; flos :fVofsf] sh laqnsf]
 -cfosf] kjfgdfg nyfhf] s]slt xhf <
 dgfknsf]nyfhf]fs]efu (Profit element)
 ★ cfkn]Jofj ; flos ; :yfsf]dgfknsf]sfo{
 ofhg -dgfknsf]cfs/_ /
 ★ lj Qlo j [tGt -jOfg_ x?Mcfn]; :yfsf]
 sfo{ ug{ ; Sg] Ifdtfsf ; ldIf .
 lj Qlo lj j /Of (Financial Statements)
 o; /Llj Qlo ofhgdf jOfg ul/P cg' f/ nfg]
 sh nfut, sh cfo / dgfknsf]:t/ aenl5
 ; :yf ; km xg]gxgaf/]t:jL :ki6 xg
 hfG . tnsf lgDg tlg t/lsfx?j f6 lj Qlo
 ofhgfsf]lj j /Ofnf0{cema9L:ki6 kfg; lsG.
 s_ Pp6f rfn'gub kjfx tof/ kfg]
 Pp6f rfn'gub kjfx ofhgfsf]lj :t] 2kdf
 Ps l; hgsf]nflu agfpg] rfn'gub kjfxsf]
 ofhgfsf]cfw/df ; :yfj f6 k'os dxgdf
 slt vr{xG / dgfknsf] slt xG eG]lx; fa
 lstfasf]hfgsf/Ls; /L/fvg] < ; :yfnf0{
 sg}klg j hf gubsf]; lgZrttf s; /LxG
 To; sf]olsg s; /Lug] < / sg}klg dxgdf
 gub ; tng 3f6f jf cefj ; 'rs ePsf]xg'
 xhg .
 v_ cfkn]Jofj ; flos ; :yfsf]k]fkt dgfknsf]
 / 3f6fsf] j Ofgsf] nyfhf] -j [tGt_
 agfpg]
 o; df ; :yfsf]dgfknsf]Ifdtf byfpg ; Sg'
 k5{tyf Ps jifsf]k]fkt dgfknsf] / 3f6f
 lj j /Of lbg ; Sg' k5{. o; j f6 /xsf afnL
 nufpg]l; hgsf]cGddf gfknsf] jf 3f6f s]
 xG yxf kfg ; lsG . oflj Ofg] f6 afnlsf]
 l; hgsf]cGddf vr{tyf cfDbfgLsf]u/L
 Psjifdf lgDg b0{k\$ /sf]lj Qlo lj j /Ofsf]
 cj:yf yxf xG .
 u_ Ps jifsf] cj]wsf] cfDbfgLvr\$ /
 d]hbf alp lahgsf]j; nft -Balance

Sheet_ agfpg' k5{.
 3_ ; jhg]zntfsf]lj ZnifOf -Sensivity analysis_
 sf qmldfsg}kdV lj Qlo rfnkFLgePsf]
 cj:yfdf Joj ; fodf s] c; / knf{ < ; f]
 xg].
 x/ lx; fj sf]vftf -axL
 cfkn] ; :yfsf] x/ lx; fasf] /\$8{x?sf]
 Joj:yfkg .
 lj Qlo ofhgfsf]gdgfm
 of]ofhgfn]; :yfsf]nflu Joj ; fo rnfpg
 nfg]z?sf]nfut vr{tyf Joj ; fo z?j ft
 ug\$]nflu rfxg]k]f]sf]nyfhf] /fV5 .
 o; sf]cnfj f ; :yfn]aif{el/df wfg / ux\$]
 kxnf alp afnlj f6 s]slt cfDbfgLug{; S5
 ; f]klg :ki6 kfg{k5{. ; :yfsf]sh :yfgf
 vr{slt xG tyf kxnf]j ifsf]lj leG l; hgsf]
 ds}wfg / ux\$]alp p'kfbg ug{nfg]rfn'
 kltzt vr{byfpg ; Sg' k5{. o; df dlzg/L
 tyf cfhf/x?sf]vr{kzf; lgs vr{clkm
 ; knfOh, nyfknsf]tna vr{ HbfdL vr{
 tyf ahf/ clej]4 ug]lj lfkgs vr{cfDb_
 ah j]4 ug]vr{-rfn'k]nut vr{ cG
 vrdf k]f]wt alpsf]laqm]lj t/Of vr{cfDb
 klg kb\$g\
 cfDbfgL j ifsf]lj leG l; hgx?df ds}wfg
 / ux\$]alpx? af] ; :yfdf hDdf xg cPsf]
 /sdnf0{ cfDbfgL dfgG . pk/f]m; a]
 sf/fj/x?sf]afnLkr5]5\$ 5\$]lx; fj blvg]
 u/L/\$8{/flvPsf]xg' k5{. sf/faf/ ePsf]
 ; a}afnlsf]j f; nft -Balance Sheet_ b?:t
 /fv\$]xg' k5{.
 lj Qlo ofhgdf 3IDt sf]fsf]:yfgf u/L
 ; :yfsf ; b:ox?af6 /sd p7fpg' k5{/ cG
 jfx0 ; f]x?sf]klg kof; ug{k5{h:t}
 ; /sf/L tyf u}; /sf/L; f]x? . 3IDt sfj
 ; fng lalw klg Ps dxTj kOf{kIf xf]. oL
 ; a}s/fx?nf0{; d\$] Ps ; j dfG 3IDt sfj

kl/rfng lgbLzsf -Operational Guideline of Revolving Fund_ 5\$} tof/ kf/L To; nf0{ ; fw/Of ; efa6 kf/t u/fp/ ; :yfsf]3lDtsfif ; #fngdf To; nf0{l j lwj t\nfu' u/} ; a} ; b:ox?n]kfnug ug{k5 . 3lDtsfif ; #fng / cgudg klqmf, nufglsf]Jofhsf]b/, ; jf zNs, b08 hl/j fgf ; fj wfgL ckgfpg' kg] sf/Of / lg/fs/Ofsf pkfox? h:tf lj Qlo cg'zf; gsf s'/fx?df /fd/L Wfg kYofpg' k5{.

\$= ahf/Is/Of ofhgf
j hf/Is/Ofsf]sg}klg /Ofgltdf lgDg cfw/et \$ tTjx?MpTkfbg, dNb, pTkflbt 7fpFtyf Jofj ; foIs/Ofsf]a9fj kb5g\
s= pTkfbg -laqm ug{alp
alp lahg a#lavg ug\$]nflu ahf/df o; sf]kex]sf/Ldfu 5 5g dNofsg ug{k5{ / o; af/]s]fsx?n]s]rxfGg cyjf s] rxfb}gg ; f]yxf kfg ; Sg' k5{. o; df tk; nsf j b? kb5g h:tM]apsf]vfl; ot s]5 < -vf; afnL hft of uOf:t/ ca:yf cflb, sg Ph06, Jofkf/Lof s]fsx? ufxssf] ; kdf xg]5g\ ltglx? sx]F5g\, ltglx?sf] v/Lb/Isf]; fk]Is cfsf/ s]s:tf]xG < oxL; :yfs]alp lsG]eG]s/f lsg kfyldstf lbGg < / sg vnsf]k\$ of yhfdf sg k\$ kfg; fdulx?, slxn]alp pkrf/ ul/G / lsg < cflb s'/fx? .

v= 7fpF
o; df pTkfbg lkn8 -7fpF ; fk]Is b/L alp kzf]vgsf]j ftj/Of, alp e08f/Of ; lj wfx? tyf a#lavg s}b? kb5g\
hg oftoft vr\$]; fy}ufxsx?sf]; udtf h:tf s'/fx? dxTj kOf{dflGg\ 7fpF]; Gbedf lgDg s'/fx? kb5g\h:tM]oj ; foIs/Of=pBdsf] sfofho, e08f/Of / kzf]vgs s}b?sf]; lj wfx?, laqm ug{s}b]laG, kl:t:kwk? sf]xg /

ltglx?sf]b/L, alpsf]sf/fj/ ug{j tdfg cj:yfdf ahf/sf]; fk]Is dfun]slt; Dd 7fp cflb5 < s:tf]k\$ /sf]ahf/sf]dfWd / kOfnL dfhb 5g\ tLsx]F5g < cflb s'/fx? .

u= dNb
pTkfbg nfutsf cfw/df alpsf]dNb lgw{Of ul/G . c? ; knf0stf]r]fh{nufP cg; f/sf] ufxs juh]yk dNb ltg{tof/L tyf ckm] ; fr]cg; f/sf]dgfkf]sf]xbnf0{klg ; flg' k5{. alpsf]k\$]t / To; sf]ahf/ dfu tn lbOPsf oL s'/fx?df e/ kb5g h:tM]olb kns ePdf kl t 0sf0 dNb Ph0; lx?, Jofkf/lx? cyjf s]fsx?sf]nflu slt / lsg < cflb s'/fx? .

3= sf/fj/ j]Asf]sfoqnd
alp lahgsf]ahf/Is/Ofsf]/\$8lj j/Of ; :yfdf b?:t /flvPsf]xgk5{. alpsf]dfu ; sng / cBfj lws dNof/] hfgsf/L tflnsf cflb . ljleG :t/sf pkef]r]fx?nf0{; :yfn] ljleG vfn]tf} tl/sfx? jf /Ofgltx? ckgfP/ tyf k} ; lrt u/ alp vl/b ug{ kl/t ug{k5{.

%= Joj:yfkg ofhgf
%# ; u7g / Aj:yfkg ofhgf ; :yfsf]Joj:yfkg ofhgfn]; u7g klfsf]tyf Joj:yfkg klfsf]9ffaf/]j Ofg u/\$f]xg' k5{. sdxf/lx? sg klqmf ckgfP/ egf{ug} tyf lbgf]bg sg lj lw / cfw/ ckgfP/ Joj ; fosf]; #fng Pj -Joj:yfkg ul/G ; f] vhfpg' k5{. o; leq kg{c? yk s'/fx?df ; :yfsf]sf/fj/ ug}; b:ox?sf]gfdj nL/ lhDj f/L ; :yfn]sg ; lk ePsf]yk sdxf/L sg s]dsf]nflu egf{ug}/ lsg eI \$/f / ltglx?sf]egf{klamf, tnadfg, ; :yfsf] ; u7gf]ds 9ff sf]kfk, ; :yfsf]lx; fj

lstfa / /\$8x? klqmf / Joj ; fo ; wf/sf] nflu / \$8 /fVg] k0ffnLx? kb5g\ . %@ /\$8{/fVg]k0ffnL (Record keeping systems) /\$8 /fVg]k0ffnLw}dxTj k0{s/f xfo; af6 Joj ; foaf/]pkoQmg06 lngk/df Joj ; fo ; DaGwLcfjZos ; xL; r'gf kjfxsf]cfjZostf kg{; S5 . ofhgf thdf ug{klqmfdf /\$8{/fVg]sfdHfb}dxTj k0{dfgG / Wfkgj} \$ plrt /\$8 /fVg ; lSpG egll; wf]Joj ; fo g}w/f; foL jf c; km xg a} nfbg . Joj ; fosf]/df]/\$8{/fVg]u/df ; yfnf0{ lgDg rf/ s'/fx? t?Gt yxf xG . Kxnffdf nfut /sd s; /Lvr{e0{/xsf]s/f bf] df w}laqm slxn]xG eI \$/f, Joj ; fo s; /Lkm6fpb5 xG eG\$/f / rfydfdf alp vl/bsf]hfgsf/L . /\$8{/fVg] klqmf b0{ ksf/sf 5g\ != df} dL-Sesonal_ /\$8x?Mh; df sg}Ps l; hg leq ePsf laqnx?, vl/bx?, Hfdlx?, oftfoft h:tf vr{x? kb5g\ @= cfbfglsf]klfk0sf]/\$8x?Mb; df sg} lgZrt cjhwdf s]slt /sd h6f0Pnf / vr{ ul/Pnf eG]s'/fsf]/\$8{; st ePsf]xG . pbfx/0sf]nflu sg}Ps dxgf jf l; hgsf cgdflgt /\$8x?nf0{cgej / cEof; sf] qmddf a9Loyfy{k/s kfg{tkmqrd ; wf/ ub}nfg ; lsg . cfbfglsf]klfk0n]Joj ; fosf] eljiosf]j f/df eljioj f0L ug{; 3fp5 / tbg?k vr{/ dN0x?sf]; thg ldnfpg lg06 lbG ; S5 . cfbfglsf]klfk0sf]pbfx/0x?df laqnx? tyf vr\$]ofhgf / gub kjfxsf] ofhgf? kb5g\ df} dL /\$8x? -Seasonal records_ ; a}ksf/sf df} dL vr{x? / laqnx?sf] /\$8nf0{Pp6f nh/df Joj:yt tj/n]cleny /fVgk5{ . pQmnh/nf0{lgDg tl/sfn]@ v08df af8g' kb5 .

v08 !Mo; df :yL kflut vr{x? rfn' vr{x?sf]/\$8{/fVg' k5{. oL/\$8x? klg lgDg zlif\$?df tn lb0P cg; f/ /fVgk5{. v/lb nh/, HfdLvr{nh/, oftfoft tyf 9jfgLnh/ / cG vr{x?sf]efr/ /fVg' kb5 . v08 @Mb; df kTos afn]/ hftsf]s]slt dfqdf alp dfhftdf 5g\ To; sf]klt 0sf0 dN0 kltlsnf]of af]fdf 5g\; f]sf]/\$8{/fVgkb5 . o:tf]k\$/sf]/\$8nf0{j:t; lr lgoG0f (Inventory Control) elgG .

^= pk; x/M ; yfsf]nIf / p27ox? tyf jlp ljhg Joj ; fo÷pBd km6fcf] eGsf nflu ; b:ox?sf]klt1f s]s]xg, eljiosf]ofhgf tyf oyfy{b7ox? -Perspectives_ yk nufglsf ofhgf? tyf lgs6 eljiodf sf/fj f/ a9fpg] ofhgf? eP ; f]pNny ug{. pk; x/df ljleG ofhgf?nf0{cfd; ft s; /Lug{eG] af/]klg 5ff]j 06 ug{k5{. sg}klg ; yfsf] alp lahg Joj ; fo ofhgf tof/Lubf; ; fng / cgudg ubf; ; DaGwt lhNnf slif lj sf; sfokhosf ; DaGwt ljifo ljzif]sf]lgoldt k/fdz{lnP/ ug{/df]xG .

* nys gkn slif cg; Gwg kl/ibsf ; jf lgj 0 j1/i7 a}flgs -afnL laz]f1_ xg'xG .

; Ge{; fdfuM
 CMS/CMSP/IWRMP, 2012. Seed Business Plan: A draft document submitted IWRMP. CMS/CMSP/IWRMP, Kathmandu. October, 2012.
 CMS/CMSP/IWRMP, 2012. Report on National Workshop on "Developing and Finalization of Business Plans and Revolving Fund to operate CBSP&MGs and Seed Production Programs" Sponsored By: IWRMP, DoA and Organized by: CMS Nepal, New Baneshwor, Kathmandu. September, 2012.

vfg\$'/fsf]u0f:t/ sfod ug{; /n pkfox;

☞ कृषि सूचना

☞ सूचना संचार

vfg\$'/f dfgj hlj gsf]klxnf] cfj Zostf xfl. u0f:t/lo Pjd\kfl]fnf]vfB kbfiy\$fl pkef]n]g}:j:y z/Lsf]lj sf; xG . ; fy} oxL kfl]6s vfgfs}sf/0f dl:tisn]klg oyflrt pnhf{kfpgl/ ; jn dl:tissf]lgdfl xG . Ps :j:y gful/sn]zf/l/s Pjd\ dfgl; s lfdtfsf]pkof] u/Lbz lj sf; df 7f] of]ubfg lbg ; S5 . t/ vfB kbfiy\$fl kfs]ts ; kn]g}xg]; Id hlj fof' jf c6 lsl; dn]xg]jf ld; f0g]/; fogsf]pkef]n] la/fdLxg]jf dfgj lo lft -d'lo' ; dt xg] cj:yf l; hgf xG . cd]/sdf ul/Psf]Ps cWogcg'; f/ vfB kbfiy\$flgt /fl]af6 kl]tj if{ s/la # nfv %) xhf/ dfgl; c:ktfn egf{ xGg\ . o; dW]gf}xhf/sf]d'lo' xG . vfg\$'/fsf]dfWdaf6 xg]; Id hlj fof'sf] ; qndof kZrft'xg]pkrf/ vr{/ p'kfbgdf xg]Gogtfdqsf]c; / xff{cd]/sdf kl]tj if{ sl/a #% c/a 8n/sf]lft ePsf]tYofl 5 . gk]ndf klg vfg\$'/fsf]u0f:t/xlgtfsf sf/0f c/af}; kof]lft xg; Sg]cgdfg ug{ ; lsG .

vfg\$'/f lj iffn'xg]kdv t]j eg\$'f vfg\$'/df xg]; Id hlj fof' xg\ cf]fn]gb]vg]o:tf ; Id hlj fof' vfg\$'/df ePdf lj leG /fl]x; lgDofp5g\ en8f kvfnf, cfp,F6f0kaf08h:tf /fl]x; ; Id hlj fof' sf/0faf6 l; lh; xGg\ o; h/Lvfg\$'/df xg; Sg]l; fogsf] pkl:yln]klg vfg\$'/f lj iffnmxg hfG . sXLo:tf /; fog vfB kbfiy\$fl kfs]ts?kdf g}xGg\ h:tf]Rofpdf xg]lj iffnm/; fog . t/ sltko /; fog eg]v]af/ldf p'kfbg ubf{

jf pBf]udf kzf]vg ug{qndf /flvG . o:tf /; fogx?sf] lgTo; kdf pkef] x'bf :jf:Yo; DaGwL ; d:of cfp5 . dfgl; sf] p'kfbst] lfdtfd c; / ug]/ khgg, dfgl; s Pjd\zf/l/s lj sf; cj?4 xg]; d:of b]yf5{ . o; h/Llj leG lsl; dsf goffgof k]j lw; kof] u/Ls]if p'kfbg a9fpg]jf vfB pBf]udf kzf]vgsf] qndf pkof] ul/G . cg] flzs kl]jt; k]j lw, lj ls/0fsf] kof] u/L vfB kbfiy{kzf]vg ug{ Pjd\ kfs]h^asf lj leG ; fdu]sf kof]n]ubf{ vfg\$'/fsf] u0f:t/df r'gf]L cfp5g\.

u0f:t/xlg vfgsf c; / u0f:t/xlg cyf{c; /lft vfgsf sf/0f lj leG k\$'/sf /fl]x; n]x]fdnf0{uf5g\ dfgj z/Ldf () kl]tztGf a9L/fl]x?sf sf/s kfgL/ kh]ft vfg g]ePsf]s/f lj leG cg'; Gwfgx?n]kli6 ul/; s\$'f 5g\ . t; y{ xfdn]kof] ug]kfgL; kfhxgsf ; fy}vfBkbfiy{ 5gf ubf{klg ; ts{tyf ; r; xgk5{.

c; /lft vfgsf c; / dVotM0{efudf af8g ; lsG .

!= cNksfnlg c; / k\$ bVg', k\$ kf]g', en8f kvfnf nfg', cfpF tyf xhf nfg', lb; f slAhot xg' cflb . @= bI3\$fnlg c; / d]h]hdf kTy/ hDdf xg' k\$; DaGwL, sn]hf] / d6'; DaGwL/fl]x; nfg' cflb .

lj iffnmvfg tof/L vfB kbfiy; k'/fg]xg]tyf af; L

ePdf jf vfbj :tsf]k\$]t x/Lplrt tkqnd,
 cfb]fdf e08f/ gu/df, vt/gfs ; Id hlj f0x?
 pTkGg xGg\ tL; Id hlj f0x? vfgfdf tla |
 ultn]pTkGg xbf jf To:tf ; Id hlj f0fn |
 lj iffQmkbfy{(Toxin) pTkfbg ubf{To:tf
 vfg\$/fn]Food Poisoning u/fpg]xbf o:tf |
 vfgfn]z/Ldf uDeL/ c; /; dt u5{. krfk/ |
 vfgfdf xg] JofS6] /of, ef0/; h:tf ; Id
 hlj f0fn]ubf{vfgf lj iffQme0{vfg}g}xg]klg
 xG .

vfgf s; /Lu0f:t/xlg xG <

- vfgf gkfs\$]xg'cyf\sltko cj:yfdf
 sfF}xg'jf z/Ln]krfpg ; Sg]u/L
 gkfs\$]xg'.
- vfgf ksfpg]sRrkbfy{:j R5 g}xg'-
 h:t}9; Lk/\$f] slxPsf] dSSpsf]xg'.
- krfk/ efBfs Bfsf] kofu ul/g'.
- vfgf tof/ ubf\$] jvt jf vfgf vbf
 xftnufot JolQmt ; /; krf0df nfk/j fxL
 ul/g'.
- vfgfdf dfs/f, dfp; hL ; f^anf, d' fsf
 krfk/ kg'jf c0 xflgsf/s tTjx?
 h:t} 9^af, df6f]l; ; f, kmfd, sf7sf]
 whf] skfn cflbh:tf cvfB kbfy{
 kg'.
- vfgf vfg]j]kl/sf]j ftj /Of ; krf
 g}xg'. efG f jf vfglkg ug{7fpdf
 lenf eGg]u/]lenf dfknf cg\$F
 vfnsf /fux; ; g]t kSsf g}5 .
- vfg'cl3 / kl5 ; /; krf0sf] dxTj
 ga%g'. sltkon]vfgf vfg'w}; docl3
 xftdv wPsf]xg]/ vfg]ahfdf klg
 wgkg] sfdnf0{ enfenbfn] dfGg\.
- vfgf w}lbg]sf]af; Lxbf t hlj f0x?n]
 vfgfdf cfqndOf ul; s\$}xGg\ To:tf]

vfgf vfpkl5 dfG]klg :j:y g}xg]t
 :ki6 g}5 .

- vfgfdf s]qd tj/n]ld; f0Psf /a,
 jf:gf, kl//Ifsf]dfqf cfj Zostfe0f
 a9Lxgn]vfg g}xg]/a, jf:gf cflbsf
 sf/Of /fu -x?_ nfg]xG .
- hlj gfzs, sl6gfzs, 9; lgfzs jf c0
 /f; folgs cjzifx? vfgfdf afSL/xbf
 klg vfgf c; /If t x'g kL5 .

vfg\$/fsf]u0f:t/ sfod ug{Wfg lbgkg]
 klf

- ; /; krf0df Wfg lbg]
- ✓ vfgf 5bf / vfgf agfpbf ; krfxg]u/L
 xft wg].
- ✓ rklku0{kns]kl5 xft wg].
- ✓ vfgf agfpbf kofu ul/g]; fdulx? ; krf
 xg]u/Lwg].
- ✓ efG f / vfg\$/fdf sLl, d' f tyf c0
 hlj l5g{glbg].

lsg <

; a}; Id hlj x?n]/fu ; fbgg\ t/ xflgsf/s
 ; Id hlj x? eg]kfgL, df6f] hgfj / jf dflg;
 dfknf vfgfdf ; 5g\ ltgx? xft sk8f tyf
 ef8f jtg dfknf vfgfdf ku] /fu ; f5g\

ksfPsf]/ gksfPsf]vfbj :tx?nf0{56f5\$}
 /fVg]

- ✓ gksfPsf] df5f tyf df; h:tf
 vfbj :tx; nf0{ 56f5\$} /fVg] .
- ✓ gksfPsf]vfg\$/fsf lglDf kofu ul/g]
 rSs, rlk^af\$ h:tf 3/fo; L; dulx?
 56f5\$}kofu ug].
- ✓ ksfPsf]tyf gksfPsf]vfbj :tx?nf0{
 gldl; g]u/L 56f5\$} efBfdf /fVg].

lsg <
gksfPsf vfg\$/fx? h:t}df5f, df; 'cflbdf
xflgsf/s ; Id hljx? xg'; S5g\ oLhljx?
vfgf tof/ ubf{c? vfg\$/fdf ; g{; S5g\
/fd/Lksfpg]

- ✓ df5f, df; 'tyf c08f h:tf vfg\$/fnf0{
/fd/Lksfpg].
- ✓ t/sf/L ; k tyf c0 k0 vfBj:thf0{
&)) ; ‡ tfkqmdf a9L ttfg].
- ✓ df5f, df; hf0{/fd/LkSg]u/Lksfpg].
- ✓ vfgfnf0{ /fd/L ttP/dfq vfg].

lsg <
ksfPsf xflgsf/s ; Id hljx; kf0M; a}
d5g\ &)) ; ‡ e0f a9Lsf]tfkqmdf vfgfnf0{
ttP/ vfPdf xlg gxg]s/f cWogaf6
blvPsf]5 . kf], e6] tyf sd ksfP/ vf0g]
/ r0}gkSg]vfgfdf eg]lj zif Wfg lbgk5{.

- ✓ vfgfnf0{; /lft tfkqmdf /fvL; Af0f ug]
; fdf0 tfkqmdf vfgfnf0{b0{306fe0f
a9Lg/fvg].
- ✓ ksfPsf]tyf rf0}laug]vfgfnf0{%)
l8=; ‡ e0f sd tfkqmdf /k0h/0/df
/fvg].
- ✓ /k0h/0/df ; dt vfgfnf0{nfdf]; do; Dd
g/fvg].

lsg <

- * nys, vfB klj lw tyf u0f lgo0f lj efudf j/i7 vfB cg'; Gwfg clws t k bdf sfo{t
xgxG .
- * nys, vfB klj lw tyf u0f lgo0f lj efudf klj lws ; xfos k bdf sfo{t xgxG .

vfgfnf0{; fdf0 tfkqmdf /fvdf ; Id hljx?
w}rf0f]a95g\t/ %) ; ‡ e0f tn jf
^) l8=; ‡ e0f a9L tfkqmdf vfgf /fvdf
tL; Id hljx?sf]j4 /fS5 jf d5g\t/
sXLxflgsf/s ; Id hljx? eg]%) l8=; ‡
e0f klg sd tfkqmdf af0 / a9g ; S5g\
; /lft kfgL / vfBj:tdfq pkef] ug]
✓ ; /lft kfgLk0f] ug]{tyf kzfwg u/L
; /lft agfpg].
- ✓ tfhf / kf]6s vfBj:tx? k0f] ug]
/ vfg]afgLa; fvg].
- ✓ kzfwg u/L; /lft ul/Psf kfZr/f0fB
bwh:tf vfBj:tx? ; jg ug].
- ✓ kmkm tyf t/sf/lh:tf gksf0{vfg]
vfgf ; km / ; /lft kfgIn] wg].
- ✓ pkef]o ldt gfl3; s\$fvfg\$/fx?
gvfg].

lsg <

kfgL tyf a/kmufotsf gksf0{ vf0g]
vfg\$/fx?df xflgsf/s lj ifflj ; Id hlj f0x?
ldl; g u0{blift xg ; S5g\ ; 8un\$ f jf
9; Lk/\$f vfB kbfx?df lj ifn'kbfx? aG
/ /xg ; S5g\ vfg\$/fx?sf]; xL5gf, wg]
tf5gh:tf ; fdf0 ; /lfsf]lj lw ckgfpg
; s0f vfBj:tx? ; /lft agfpg ; lsG .

dfly nlvPsf lj lw ckgfPsf vfg\$/f ; /lft
/ :jR5 /fvG ; lsG .

qm uf0{e}ldf ls6flzz /fj

8f; 0b] zfx*

xfdf]bzdq qm e}Ld/f{hftsf]kfbMsfisx?n] kfv]ub5g\ To; /Lg}h; k}j f qm xn:6g hftsf uf0x? kfv]x/ plts}kdf lbg kltlbg a9b}uPsf]5 . kfoMe}In]kltlbg &÷* ln6/ bw lbg]ub5 . To; }u/Luf0h] kltlbg !@÷!% ln6/ bw lbg]ub5 .

t/ kz' cxf/fdf Wfg kfoPsf]blvbg . kffnf] xl/of]3fF? cxf/fsf]kdf Joj:yfkg ug{ kof; ug{ul/Psf]5g h; n]ubf{kzhf0{ cfjZos kg{tTjx?sf z/L/df sld xg hf5 . h; sf]km:j?k la:tf}kz'sf]pTkbg 36b}hf5 . sltko sfisx?n]kfi6s vfgfsf] kdf bfgfnf0{dfq a9L dxTj lb0{bfgfsf] dfqdf j4 ub}uPsf]blvG . h; sf]km:j?k kz'sf]z/L/df cfjZos kg{tTjx?sf]sdLxb} pTkfbgdf klg ; f]sf]c; / kg{hf5 .

dflv pN]vt tTjx?sf]sdLsf/Of xg]w} lsl; dsf /fjx? dW]ls6flzz Pp6f kv /fj x]. t/ o; /fj af/]kfoMkz'; jdf ; mlg sltko kfljwsx? klg ljNsh cgle1 /xsf] kfoPsf]5 . of]/fj nfu}df kz'x?sf]z/L/df cfjZos kg{ulnof]kbfy{jf lrg]sf]dfq sd xg hf5 .

z/L/df unlof]kbfy{sf]sdLsf]sf/Of kz'sf] zf/l/s cj:yf lta|ultdf lbgklt lbg sdL xb}hf5 . kef]jt kz'vfgf vfg ?rfpbg, df]kz'sf]df; ' ; dt x/fp/ hf5 . 3/Lvfg] 3/Lpufpg] 3/Lgvfg]ub5 . @÷\$ lbgdf g} kz'sf]s/ u byf kg{yfN . bfgf vfg lbf kzh]z?df w}vfg]h:tf]u/Lbfgdf dv xN5, t/ kl5 vfg dg k/fpbg . sg}sg}kzh] xl/of]3fF dfq cln cln vfg dg k/fp5 eg] sg}sg}; s'sf]k/fn e; dfq vfg dg k/fp5 . kzh]sXL5g pufpg]/ pufpg 5f8] lgbP h:tf]ug]ub5 . oLnIf0sf]afjhb kz'sf]yg tyf snrf]f qids kdf 36b} hf5 . ; dodf g}; xLbg tyf pkrf/ gePdf

!-@ xkf leq kz'sf]dTo' ; dt xg hf5 .

/fj]sf]nIf0f klxrfg

!= zf/l/s tfkqnd ; dfGo jf cnslt a9sf]xg; S5 .

@= kfoMof]/fj bf}f]atdf a9L byf kg{ ePsf]sfs l; t sg jtsf]kz'xf]eG] hfgsf/Lng].

#= la/fdL kl5 @# lbgdf kz'sf]zfl//ls cj:yf jf df]kkg slt 36sf]5, lgs} df]kkg 36sf]/x\$ eg]zsf ug{; lsG .

\$= vfgf vfg]afg]sf]af/df hfgsf/Lng] kzh]vfgf vfg]0R5f u/klg vfg g; lsg] nIf0f byf k/\$f]5 eg]zsf ug{; lsG .

%= kzh]3/Lpufpg]3/Lgpufpg]nIf0f byf k5{eg] /fj]sf]zsf ug{; lsG .

^= xl/of]j; Wf dW]sg}Pslt/ cln a9L vfg zrfpg]u5{eG]zsf ug{; lsG .

&= kofuzfnfd l; fj cyjf bwsf]k/If0f ubf{ /fj]sf] klxrfg ug{; lsG .

pkrf/M

!= kTo\$ lbg lbg]sf]Ps k6s ulnof]kbfy{ h:t}ehLlrgL!%) -@)) ufd vfg lbg].

@= lnl/g !%) -@%) Pd=Pn=Ps lbg la/fp/ # k6s lbg]sf]Ps k6s lbg].

#= eβfnu -Vetalog_ sf] ; 0{ !÷%) Pd=Pn=df; df Ps k6s dfq ; 0{lbgl].

\$= l/Gfh -Rintose 500 M.L._ @# Bottle g; fa6 ; 0{lbgl].

; xfos lrlsT; f

!= Pluldg knf{whf]cfjfwL #) ÷%) ufd kltlbg bfgf; v/ l; t vjfpgl].

@= slG kn\$; ; 0{(Amliplex) %) Pd=Pn= bfgf-kfgLl; t vcfpg].

*nys, lhNf kz'; jf sfoffo, wgifdf j/i7 kz' lrlsT; s kbdf sfo{t xgxG5 .

gkfn df dl/r v t Lsf]; efj gf / rgft lx?

☞ r t gfy kfyh*

dl/rsf]kl/ro

dfgj hLj gsf] b]gs 2 kdf kof] u/lg] d; nfx? dWsf]dl/r klg Ps c]w d; nfsf] gfdaf6 lr/k/lrt x]cfPsf]5 . o; sf] j] flgs gfd *Piper nigrum* x]. dl/r nx/foQm jg:klt x]eg]kft kfgsf]kft h:t}xG .

!@ dl/r nufpg]t/Lsf

vf; u/L dl/r nx/foQmxg]x] o; nfo{ 7N/hf 2 vx?sf k]df nufOG . o; sf] nx/fdf g}h/f xg]x] nx/fsf c]nf c]nf sf6Lhdgnfo{r:ofg agfo{vf; u/L; v/vO -; 7lg_ h:t}u/L/ f]kG . o; nfo{c]f l; ; f] / lz/lzsf 2 vx?df nufpgn]o; sf]p]kfbg j]4 xG .

dl/r xg]xfj fkgL tyf :yfg

lj if]fu/Ldl/r piOf k]z]o xj fkgL tyf hg xj fkgLdf c]f, l; ; f] lz/lz xGg\ToxL xj fkgLdf g}d/lr klg xG . vf; u/Lg]kfn] leqLdwz tyf kx]8sf a] lx?df nufpgn] dl/r v t L /fd} f] km6fpg]ub5 . xfn dl/rnfO{Aoj; flos eOf klg c]k}3/df kof]sf b]6sf]af6 bO{rf/ af6 nufPsf] kfoG . h:t}pbok/ lhNfsf]j; fx uf]j = sf s]Lj 8f g=*, (# / \$, l; Gw]sf]b]w]L uf]j =, = nufot l5d]L uf]j =, = x?df klg nufO{Psf] kfo{G .

dl/rsf]dxTj tyf kfof]

dl/rsf]kfof] tyf dxTj nfo{lgDg ab]f?af6 k]6 kfg{v]hPsf]5 .

s_ dfgj :j f:Yodf kfof]

dfgj nfo{dl/rsf]dxTj tyf kfof]sf lj ifodf rrf]ug{kbf{:j:Yo b]6sf]af6 x]f]; fdfCo, ?3fv]s tyf 3f]Lsf ; d:ofx? unf j; \$] cfj fh c]pg g; Sbf tft]kfgL; f] dl/r ldl; Psf]whf]laxfg a]sf vfgn]cfj fh ; xh xG . u]3/lt/ dl/rsf]whf]hf8f] ; dodf lrof; f] ld; fo{vfgn]hf8f]sd ePsf]dx; z xG . dfg; sf]z/Ldf lj leG ls; dsf vl6/fx? lg:sg]ub5g\To; dW] lkn]Ps x]. pQm]kn]lg:s]f]j/l/kl/ dl/r lk; L nufpgn]lkn]kfsL 3fp lgsf]xG .

v_ dfgj sf]c]fy\$:y/df ; w/ tyf kfof] dl/rsf]dxTj tyf kfof] c]fy\$ b]6sf]af6 klg plQs}dxTj kfo{5 . o; sf]ahf/ dNo Hfb]g}ePdf ls; fgx?n]p]kfbg u/\$]dl/r kl]t s]h]e 2 = ^)) b]v 2 = !)) ; Ddf las]lj t/O] xg]ePsf]h]ls; fgx?sf]c]fy\$:y/df j]a xg hfG / ls; fgx?sf]hlj g:y/ klg pRr g}xG .

u= OGwgsf] ?kdf kfof] tyf dxTj dl/r 7N/hf 2 vdf nufO{x] 7N/hf 2 vsf xuf]6 ls; fgx?n]kof] ul/g]b]f/f OGwgsf] 2 kdf pke] ub5g\eg] 2 vj]6 k]g/ tyf 3/ agfpgsf nlu sf]7sf]pkof] klg xG .

3= ls; fgx?n]kfn]sf 3/kfn]f kzx?nfo{ kfof]

ls; fgx?sf]v]af/Ldf kof] ul/g]dn tyf ls; fgx?n]kfn]sf v; Lj fv]nfo{3f]sf 2 kdf lz/lzsf]kof] ug{: lsG .

a=j ftfj /Ofdf :j R5tf
 gkfnf klnsf]æ/ of] ag gkfnf]wgÆ
 eG]plStnf0{oyfj t /fVg]xf]eg]t/f0{tyf
 kxf8sf]a}Ix? sfddf gcfPsf hldgx?df
 2 vx? nuf0{d/ Ir v}L ul/Pdf e-Ifo,
 af9lkx/faf6 xg]hldgsf]Iflt sdLxg}sf
 ; fy}jftfj /Ofdf :j R5tf /fVg ; lsG5 .

r_ /fhuf/L; hgf
 olb d/Irnf0{Jo; flos v}L ug]xf]eg]
 :j b}sf nfv}a/fhuf/ oj foj tIx?n]/fhuf/
 kfp]5g\ / lj b}Psf oj f hgZlQm:j b}d}
 vkt e0{cfl} a} xg hfG5 .

5_ s}if ko6gdf a}4
 olb dl/r v}Inf0{Jo; flos ul/g]xf]eg]
 dl/r v}L xg}sf]nflu :j b}L tyf lab}L
 ko6sx? pQm:yfgdf cfp]gn]pQm:yfgsf
 ls; fgx?sf]cfl} l:ylt ; b} xg hfG5 .

h_ yf]}hldg af6 w}p}kfbg
 Psft/ gub]d; nf afnLd/ Ir p}kfbg xG5
 eg]csf]tkn}toXL hldgdf c}f nufotsf
 kmkn}x? p}kfbg ug}; lsG5 .
 To; sf/Of Ps}hldgaf6 w}p}kfbg ls; fgx?n]
 lng ; S5g\

dl/r p}kfbgdf ; d:ofx?
 x/\$ lrhsf /fd] g/fd] kn}f a}kn}f xG5g\

To; sf/Of dl/r v}Ldf klg ; d:ofx? k} :t}
 kf0G5\ dl/r v}Ldf ePsf]; d:of eg}sf]
 km nflu k}Sgyfn}l5 ljleG ls]; dsf
 r/fx?n]dl/rsf]km v}L}gfn]ls; fgx?nf0{
 3ff k}v}lG5 eg]o; nf0{k}l5 l6k} klg
 ; fj w}Lgk}v}Pdf k}sf kmx? e0}f emL
 gi6 xg kb5 .

To; h/L dl/r v}Lsf af/df ls; fgx?nf0{
 Psft/ hgr}gf v}nsf t}nd tyf gof}gof}
 klj lw oQmJo; flos v}Lsf]af/df k}f/
 k}f/ sdln]ubf}d/ Ir v}L tkn}ls; fgx?
 c}slif ePsf]k}l5 eg]csf]tkn}ls; fgx?n]
 p}kfbg u/\$f]d/ Ir vkt xg]ahf/sf]klg
 cej ePsf]dxz; ub}g\ c6 afnLdf
 h:t}d/Irdf klg laleG /f}x?n]; t}pg]
 ub} .

lgisif
 dl/r v}Lsf lj ifodf ls; fgx?nf0{ hgr}gfsf]
 dfWdaf6 cfwgs klj lw 1fg ; lk Ifdtfsf
 af/df /f}bsf tkn}af6 dl/r v}L; DaGwL
 t}nd pknAw u/fpg]xf]eg]j if}L nfv}
 a/fhuf/ oj foj tIx? c/af}vr{u/Lj b}Lg]
 lyPgg\eg]csf]kn}:j b}df g}Jo; flos
 dl/r v}Lu/L/fi6 tyf c}f}fi6 ahf/x?df
 d/ Ir las} lj t/Of ; d} u/L xfn b}df
 e0{x}f]a}kf/ 3ff ; d:ofnf0{sd ug}; lsg]
 lyof]/ ; du|b}sf]cfl} j }4b/ klg a9g
 hfg]lyof].

* n}ys, s}if lj w}udf gf; = kbdf sfo}t xg}G5 .

a8km/fu j f/]hfgsf/L

8f= azLzdf*

of]/fu kHdf nfg]3fts tyf ; sfdS /fu xfl.
 a8km' Avian Influenza type A efo{; af6 nfb5 .
 Type A efo{; af6 sv/f, xff / dfGdf km'nfb5
 . Type B / C af6 dflg; df 3fvf\$Lnfb5 .
 ljZj df xfn kmPsf]a8km' H5N1 clt g}dxTj kof
 / dfGdf sv/f, xffaf6 of]/fu ; b5 . efo{; df
 Haemagglutinin(H) / Neuraminidase(N) gfdS b0j 6f
 k]6gsf]; ofhg xG . H 1 b]v 19 / N 1 b]v 7
 ; Dd pk; dx 5 . of]/fu dfGdf nfu]df H /f
 cfp] / t]of 3fvf\$Lnfb5 . dfGdf /E6f nfg]
 tyf sdh]Lcgej xG . of]/fu; n8g]kt / mds
 lfdt sd ePsf dflg; x? a9a9L, s6s6L tyf
 8fo] l6h, HIV, TB ePsf dfGdf ; g]; Defj gf a9L
 5 .

sv/f tyf xffdf Pssf; L7hf]; vofdf sg}nIfof
 gbyfo\$g dg{; Sb5 . nIfof xffdf kx] kx] ug]
 l; pm, nft]Lgnf]xg] v\$df / Qmfj ePsf]wsf]
 b]vg] / Pssf; LpQgf]k/Ldb5 .

of]/fuaf6 !((\$ b]v !((* df :kg / o/fkdf \$
 b]v 5 s/f\$ dflg; d/\$] cgdff 5 . o; nfo{
 :kgL; km' klg elgG . ; g\ ! ((& df x^s^df
 a8kmh]!@ hgf dflg; d/] / !@nfv sv/f gi6
 kf/of]. of]/fu]df ; dG], r/f /fu]of jfxs xg] /
 Low Pathogenic Avian Influenza ; fo] /loaf6 du]hof,
 rlg xb}gk]nsf] tfn, tnof ; hLdfkrt, lg] > t
 ub5 .

tfind xff; f]sf]n; k; df of]/fu 3/df ku] sv/fdf
 ; g]ub5 . sv/fn]g]dfGdf /fu ; fb5 . LPAI sf]
 efo{; genetic reassortment af6 Highly Pathogenic
 Avian Influenza(HPAI) df kl/jtg xGg\.

clxn]ljZj df (HPAI) sf]hlt H5N1 af6 dfG]
 ; sdof eod/\$]t/ dfGdf /fu :yflkt eodcsf]
 dfGdf ; /\$]kli6 eog; s\$]cj:yfdf 5 . of]/fu
 dfGdf af6 dfGdf ; g{; Sg]; Defj gmf]o{Gog]s/Of
 ug{ h]s ; /If ckgfpg'ck/xfo]5 . h]s ; /If
 (Bio-security) sfod ugdf kHdf :jf:Yo x]/rfx,
 EofS; g] g Joj:yf tyf v] Joj:yfkg u/LkHnf]o{
 :j:Yo /fvL a8km' km]ngdf lgoGof ug{clt
 cfjZos 5 .

d/\$] / gi6 u/\$]; l6kns\$ ls; fgnf]b0{clanDa

lftkt]sf]/sd ; DalGwt kz' ; jf sfoffon]
 lbg5 . () lbg; Dd kgMToxL vf]/df sv/f
 gk]ng]. ; /; kff]u/]; sdof]dQmkf/L; n nuf/
 vf /fv]. /fu nfu\$]If]df sv/f, sv/fhG kb]f{
 cflbsf]cf] f/ k; f/df lgoGof ug] Sj f/Ofog
 Joj:yf dhat
 kfg].

xndf gk]ndf a8km'sf]EofS; g kofu uL/Psf]
 5g . kH]Lahf/ ; b9 ug]rnf, bfg / tof/Lsv/f
 af]g]uf8L 5\$]ug] s]fs, pBdL, xdf/L tyf
 pke]m; a; ; rt eP/ a8km'lgoGofdf cf-c]k]g]
 If]af6 of]bfg lb0{/fu]nf]o{sfaleq /fv] ; lsG .

H5N1 af6 O8f]; of, leotgfd, O]hK, rlg cflb
 dh]sd dflg; sf]; dt dTo ePsf]b]6fGdf s]L
 dxgf cl3 ; g@) !# df g]H7 af6 rlgdf dflg; sf]
 dTo ePaf6 /fu cema9L3fts ePsf]kdf]of
 xG .

; g@) (af6 jtdfg cj:yfdf gk]ndf *@ k6s
 a8km'sf]Outbreak ePaf6 of]/fu endemic Cj:yfdf
 kjz u/\$]5nE 5 . xndf sf7dof8f] of]/fu
 kmPsf]5 . kfy/f pk-dxfgu/kn]sdf \$ k6s
 / n]ygyf g-kf= df ! k6s a8km"/fu ; g@) !#
 df km; s\$]5 .

gk]nsf]; G6df h]s ; /If dhat kg]. kfd{
 /lh]6zg kz' ; jf sfoffodf u/Ltfn]sf cg' f/sf]
 cG ; sdof xg]/fu ; D]GwL v]k lgoldt ug].

d/\$] sv/fnf]o{tTsf] If]lo kz' /fu cG]f
 kof]zfn]df hff]LFlu A eP gePsf]kQf nufpg]
 / Flu A ePdf s]b]o kz' /fu cG]f kof]zfn]df
 a8km'k/If]of ug].

k/If]of]glthf s]fsdf pkn]w u/fpg]. a8km'
 ePdf lh]nf:t/lo a8km' ; dG o ; ldtaf6 /fu
 u]t If] lgw]Of u/L; DkOf]k]df sv/f, cO8f,
 ; hL, bfg gi6 u/Luf8g]j hnfpg]. of]/fu nfu\$]
 kH] k]df sf]d ug]AolQm]; o]dt xg lgtft
 h?/L5 .

* n]ys, If]lo kz' ; jf lgbzg]no kfy/fdf If]lo lgbz
 kbdf sfo]t xgxG .



/f|n]klg o; nfo{a9L; tfg]ub\$. To; sf/Of sldnf nfu}df dnfyfog % kl|tztsf]whf]% b|v & ufd kl|t affsf b/n]o; sf]knh j l/kl/ df6f}df ldnfO]bg]. To:t}nfxL sL/f nfu}df d{fi; i6s) @kl|tztsf]erfh kl|t ldlhn6/ kfgldf ldnfO{xfr}df 5l/lb}f o; sf]lgoGqOf xg ; S5 .

ufhe}nfo{eGf 6ofdd6/nfo{w]bg hfu}P/ /fv; lsg]/ xfd]kxf8Le} o; sf]vt]sf] nflu pkoQmhnj foh]; fy lbg]ePsf]x}f o; nfo{s/] faf/leq dfq l; ldt /flvg' x}g . a? o; nfo{Joj; flos ; kdf la:tf/ ub}nfg ; s}df sd nufgldf w]}cy}kfhg

ug}; lsG . t; y{x}dLklg o; sf]Joj; flos vt]lt/ nfg]xfl]s U

*n}ys, s}if ; r}gf tyf ; #f/ s}b}df ; xfos /}Bof] k}f/s kbdf s/f/ ; j}df sfo{t xg}xG .

; G}e{; fdfuL

► kflv}af; wgs6faf6 k\$flzt s}if klj lw; # ; DalGt kl:tsfx?

► afuj fgLj sf; s}ltk/af6 k}k} kmknh vt]L; # ; DalGt kl:tsfx?

► lq= lj= lj= s}ltk/ jg:klt ljefua6 k}k} ah}g}x? .

-t:jL-n}ys ; jodh]lvr\$fl_

gk}ndf kl|talGwt lj iffb]x;M

q}m #	lj iffb]sf]gfd	kl talGwt j if{
!=	Snf/}B}g	; g\@)!
@=	8}8}6}6}	; g\@)!
#=	8fOPIN8g	; g\@)!
\$=	O}Gg	; g\@)!
%=	c}N8g	; g\@)!
^=	x}6fSnf]	; g\@)!
&=	dfO{\$;	; g\@)!
*=	6f\$; fkn}g	; g\@)!
(=	j }Pr; }6}	; g\@)!
!)=	lnG}g	; g\@)!
!!=	kmkrfld8g	; g\@)!
!@=	cuf}f]ds{Ls}kfp08	; g\@)!
!#=	ldyfOn kf/flyog	; g\@) &
!\$=	dgf}n}f}km	; g\@) &

s]if h]j s lj]j wtf, o; sf]dxTj tyf ; Af0f

cgdf e\$/f0*

s]if h]j s lj]j wtf eg\$]s]x]f
 h]f / la?j fsf lsl; d / ltgdf kf0g
 lj]j wtfnf0{h]j s lj]j wtf elg5 . csf
 zAbdf e0f ; #f/df /x\$]f ; Dk0f{hlj t kf0L
 tyf jg:klt alrsf]le0gtf, k\$]f / hDdf
 ; Vof / ltgx? alrsf]; 0fhg g}h]j s
 lj]j wtf x]. s]if h]j s lj]j wtf eg\$]f
 s]ifh0 kf/l:ylt k0fnL, khftL/ jz0fut
 lj]j wtf x]. s]if p]kfbg k0fnL; F ; DalGwt
 lj]j le0g lsl; dsf h]j x?, la?j fx? tyf c0
 h]j s tyf ch]j s klfx?sf]lj]j wtf g}s]if
 h]j s lj]j wtf x]. s]ifh0 kf/l:ylt s
 k0fnL; F ; DalGwt h]j, h0t, jg:klt tyf
 ; Id h]j c]bsf]lj]j wtf tyf o; sf]c0t/
 ; DaGw g} s]if h]j s lj]j wtf x].

s]if h]j s lj]j wtf c0tu0 vfB p]kfbg tyf
 s]if k0fnL; F ; DalGwt ; Dk0f{c]gj lzs
 >ftx? kb\$g\ H:tM

- v]Lul/g]lj]j le0g c0gafnL, afuafgL, 3fF, v]Lk0fnLdf cle0g c0sf]z kdf /x\$]f z vx? sf]khftL, kz, dT:o, s]6, ; Id h]j x?, v]Lul/g]/ 3/kfn]fdf /x\$]f khftx?sf]; DalGwt hunLkhftLx?
- vfB p]kfbg k0fnLnf0; xof]h ug]lj]j le0g kf/l:ylt s k0fnLx?
- sf]ssf]k/Dk/fut 1fg ; lk vf]h c]fb.

v]Le0/x\$]f elddf lj]j le0g h]j s lj]j wtf
 sfod e0/x\$]f]x5 . Ps ; j]f0f cg; f/
 8g]dfs\$]Ps r/g If]qsf]! ju{ld6/ df6df
 \$),))) ; fgf ; fgf u80fhfx?, ! s/f\$
 uf]hfsf/ s]L (Round Worm), \$),))) e0f
 a9LsL/f k]00af'ufx? kf05g\ To:t}! ufd

pj { s]if elddf @% c/j Af]S6]of, \$),)))
 9; Ltyf #),))) k]0fh]f; Dd /x\$]f]cgdfg
 5 (MCNeely, 1995) .

k/Dk/fut s]if k0fnLdf sf]sx?n]k/Dk/fut
 tl/sfaf6 jif]L pdf/\$]f alpx?sf] k0fh
 ul/5 . xfn]s]s]if k0fnLsf csf]dh]saf6
 cfoft u/Lk0fh u/\$]f]alp tyf /f; folgs
 dn / s]6gfzs lj]j]bsf]c]tolws k0fh
 e0/x\$]f]xgfn]df6\$]f]pj {fz]st 36g\$]f; fy}
 jz0f tyf khft lj]j wtfdf ; d] x]f; e0/x\$]f
 5 . g]kfn]df sf]sx?n]k0fh ul//x\$]f k/Dk/fut
 alp tyf v]Lk0fnLsf]lj]j sf; h]j s lj]j wtf]sf]
 ; Af0f]sf] nflu plQs} cfjZos 5 .

s]if h]j s lj]j wtfdf x]; c]fpg\$]f sf/0fx?
 df} d kl/j t0, jg hun k]0fgL, la?j tyf
 kz\$]f]goff tyf af]0 khft]sf]k0fh, zx]s/0f,
 c]B]h]s/0f, s]if h]dgsf]c0 sfo\$]f]nflu
 pk0fh, ahf/sf]dfu / k/Dk/fut khft]sf]
 yf]}p]k]bsTj n]ubf{s]if h]j s lj]j wtfdf
 Xf; cf0{x\$]f]5 . o; /L dfgj ; dh]sf]
 vfB]gdf k]0f c; / ug]s]if h]j s lj]j wtf]sf]
 dxTj a' g' ; fy}; Af0f ug{w}cfjZos
 5 .

s]if h]j s lj]j wtf n]k ePdf kg{; Sg]
 c; /x?

- afnL tyf kz, dT:osf c]gj lzs >ft]sf] x]f; ePdf lj]j wtf]sf]c]efj df vfB ; /If]sf] l:ylt laug ; S5 .
- s]6kt0, ; Id h]j f0f c]fb n]k ePdf afnLsf]k/fu; f]g Pj +h]j s lgo0f klqm]f k0fh]t e0{p]kfbg sd e0{

s|if j |4b/ 365 .

- c|fj |4z >|t ; DaGwL:yfgl 1fg ; |k Pj +klj lwsf|xf; ePdf s|fs ; dbfo k/cfl>t xg uPdf labzL 1fg ; |k Pj + klj lw le-ofpg /fi6n|7hf|nfufgL ug{ kg|xG .
- j fo, hn / df6f|k|hf|of Joj:yfkgdf k\$|t kbQ lj lj wtfsf lj leGg k|fx?sf|:ki6 eldsf ePsfh|lj lj wtfsf|xf; ePdf j ftj /Oflo ; Gt ng lalug ; Sg| .

s|if h|j s lj lj wtfsf|dxTj
 s|if h|j s lj lj wtf, h|j s lj lj wtfsf|cleGg cEsf|;kdf /x\$|f5 . of|dfgj h|ttsf|v|B ; /Iff tyf lhj s|kfhg|sf|nflu ckl/xfo{ 5 . k/fk|{sfnb|v g}x|df| k|j h{x?n}s|if h|j s lj lj wtfsf| ; /Iff of ub| cfO{x\$|f 5g\ s|if h|j s lj lj wtfsf|dxTj nfO{c|ly\$ b|6s|f|af6 ; lhn|dNof|g ug{; lsb|f . t/ klg o; sf|s|Lpkof|ut| af/|x|f|dnfO{y|xf 5 . s|if h|j s lj lj wtfn|k|To|f jf ck|To|f ;kdf dfgj h|j gnfO{cltcfjZos v|B kb|fy{ kb|fg ug{d2t ub5 . s|if h|j s lj lj wtfsf| dxTj nfO{df6|df|L|t|g lsl; dn|j ul\$ /Of ug{ ; lsG .

s_ pkof|ht|f|dfgj ; dfhn|bz|f|xhf/ j if{ k|xn|b|vg}jg:klt tyf h|j hG|sf kof|h ub|cfPsf|5 . ux|Fds|/ wfg cfh ljZjel/ g}; |kO{dfgj h|ttsf|k|dv v|B|fG|sf|;kdf kof|h ePsf 5g\ oLk|mnx? hE|ndf pld/x\$|f cfsif|f xg hE|nL3f|f|af6 p|klQ ePsf xg\ / ; docg; f/ a9Lp|k|fbg ug{kmnsf|;kdf lj sl; t u/fOPsf 5g\ v; Lafv| ; |f/, e\$|, sv/f, 3f\$|f c|lb klg q|nds ;kn|hE|nL h|j hG|af6 lj sl; t u/fOPsf|xf|. kmn lbg| jg:klt tyf 3/kfn|f hg|fj/x?sf hE|nL cfk|n|x?nfO{ s|if h|j s lj lj wtfsf|

k|dvazf|f|sf ; |t|sf|;kdf lnOG . g|k|ndf k|fOg|nOr|(Red Jungle Fowl) ; #f/el/sf sv/fx?sf nflu j z|fO|ut >|t ePsf|5 . log|x?af6 lj leGg k\$|f/sf dxTj kO{fj z|fO|x? k|f|t ug{; lsG hg gZn ; w|f/sf|;kdf kof|h ug{; lsG jf eljiodf pkof|h ug| x|t|h|j z|fO| a\$|df ; |rt ug{; lsG . h|j s klj lwsf lj z|f1x? To:tf j z|fO|df s|f ub5g\ To; sf|kof|h u/Lk|mn tyf hg|fj/x?nfO{ /|h lg/f|vs jf ag:k|tnfO{v8|L; xg; Sg| kfgL ; xg; Sg| k|f|t|sf|?kdf lj sl; t ub5g\ ef/t|o pk-dx|f|akaf6 ; |ng ul/Psf| hE|nL wfg|sf|Ps k|f|t (*Oriza nivara*) df k|fOg| k|t/f|vs j z|fO|sf|kof|h ul/ b|l|f|of tyf b|l|f|of k|j {Plzofsf a9L p|k|fbg lbg| w|gnfO{S|f k|f|af6|uf k|t/f|vs tNofOPsf| 5 . cG w|}k\$|f/sf pB|f|df kof|h ul/g| h|j s ; |t, k\$|f6 tyf cG 3/kfn|f hg|fj/x?sf|p|klQ c|lb k\$|t|df ljBdfg h|j s lj lj wtfaf6 g}p|klQ ePsf|5 . v_ sfo|l|leGg lsl; dsf k|f|t|x? g} k|f|l:y|ts k|f|n|sf cleGg cE xg\h; n| ck|To|f ;kdf ; d|t dfgj h|ttnfO{; jf k|v|Psf|5 . dfgj h|ttnfO{k|f|t o:tf ; j|f? d|w|hnf|w/ |f|f|sf| ; /Iff h; n|kfg|sf| ax|j nfO{g|oldt / lgo|qt ub5, jfodO8ndf k|fOg|sfag, c|S; hg tyf gfO6|hg h:tf t|j|x?sf|k|g|k|z|f|vg, jfodO8n|o df| dsf| k|j4g, df6|f|f pj {f z|st sfod /fVg|c|lb kb5g\ ctM|s|if h|j s lj lj wtfsf| ; /Iff dfgj h|ttsf|h|j g lg|f|sf|nflu c|To|fZos k|f|f|of|t ePsf|5 .

u_ ; |f|o|f|sg|klg j:t|df /x\$|f|u|f|n|x|f|dnfO{ To; sf|; |f|o|f|cf|g|b lbn|f|f5 . sg|h|j ; |f ; DalGwt 1fgn|pSt h|j sf| ; G|t|fnfO{ ; /fxgf ug{af|w tNof|f|f5 . jf; :yfg|sf| ; G|t|f To:tf 7p|f|f|cf|sf/, Tox|f|f|e-b|Zosf|

lj leGtf cflbn]; ffof kbzg u/\$f] xG . To:t}sg}hjhGt\$faflLjf /E, rfn jf jg:kltsf]; uGw ; G/tfsf klts xg\ cfhefn s lif ko\$g a9b}u0/x\$f]5 . olx s lif hjs lj lw tfn]s lif ko\$gnfO; xofh u/\$f]5 .

s lif hjs lj lw tfn ; Afofs pkfox? gkndf s lif hjs lj lw tfsf cleG cE? kofk dfqdf pknAw ePtklg ; dosf cG/fndf :yfglo s lif hjs cfj flzs >fx? nfk xg nfu\$]tYo cWog cg' Gwgn]ki6 kf/\$f]5 . s lif kwfg bzdf s lif lf]s]lbuf lj sf; , vfB ; %If / ul/j Llgj/fOfs]cfwf/ :tDesf] ; kdf /x\$f] dxTj kOf{s lif hjs lj lw tfn ; Afof / ; Da4g tyf lbuf]pkofh ug{cfhsf]cfj Zostf xfl. To:t}u/ gkfn ; /sf/n]klg s lif hjs lj lw tfsf]dxTj nfO b]6but u/L/li6 s lif gllt @)^! df lnPsf] hjs lj lw tfsf]; Afof ; Dj 4g Pj +; bkofh ug{p24o cg?k s lif hjs lj lw tfn gllt, @)^# nfu"u/\$f]5 .

s_ :j:yfglo ; AfofM\$g}klg hjs tyf lj?jf jf ltgsf khfltnfO{pglx?sf]cf g]af; :yfgdf

; Afof u/ /fvglj lw g}:j -:yfglo ; Afof xfl. h:t}3/kfn]fdf /x\$f khfltx?sf] ; Dj lGwt hunLkhfltx?nfO{ hund}; Afof u/ /fvglj lw .

v_ k:yfglo ; AfofM\$g}klg hjs hG'tyf la?j fsf khfltnfO{ltgsf]kfs]ts af; :yfg eGf aflx/ ; Afof ug{ljlw g}k:yfglo ; Afof lj lw xfl. dVotMj:yfglo ; AfofnfO{ lj zif dxTj lbgkg]s/f ; j]ofkLEp klg o; sfo\$]k/ssf]?kdf k\$]ts l:ylteGf aflx/ k:yfglo :yfgdf h:t}vt, af/L, au}f / kofh]zfnfdf xsfO; Afof ug{ljlw cyjf lrl8of3/ tyf slq d hnfzodf ; Afof ug{ljlw cfhsn nfk kof x]cfPsf]5 . cf]flus /fi6x?n]k/:yfglo ; Afofs]klj lw? ckgfO{ alh e08f/, tG't khgg\; Id hjs fofs]slq d e08f/ ug{u/\$f 5g\

gkndf klg s lif hjs lj lw tfn ; Afofs] lglD, gkfn s lif cg' Gwg kl/ib,\v d n6f/df Ps lhg a\$sf] :yfgdf ul/Psf] 5 .

*nys, s lif tln d lgbzgnf, xl/x/ejgdf s lif k}f/ tln d clws t kbdf sfo{t xgxG .



wfgafnldf 9}fsf]pkof]ltf

☞ ; fg'sz/Lahrfot

kl/ro

/f; folgs dn ckn}bzdf gaG] o; sf] a9bf]dN / ; dod}sf]snf0{rflxPsf]ahf pknAw gxg]x}l; ldt hUfafa6 a9LpTkfbg lng /f; folgs dnsf]lj sNksf]cfj Zostf xG . ctMaleG lj sNx? dW]xl/of]dn ; #f/ e/Lg}rng rNldf cfPsf]5 . lj zif ul/ xl/of]dn wfgafnlsf]nflu clt pkof]L l; 4 ePsf]5 . sg}klg af\$la?jf tyf afnlgfnlsf]xl/of]slnnf]8fF, kft, h/f cflb v}Lu/Ljf ; sng ul/ /fd/Ldf6f]f kN6f0{ jf df6f]eq k/Ldf6f]f}sx}f0{agfPsf]dnnf0{ xl/of]dn (Green manure) elgG . lj leG af\$la?jf tyf afnlgfnLxl/of]nsf] ; kdf wfgafnldf kof]h ug{dW]9}f Ps kd}v xf].

9}f Pp6f o:tf]la?jf xfh:fsf]8fF / x}f? g/d xGg\ df6f]f kN6f0{sx}Lr:ofg lbPdf ; lhn} F slxG . xl/of]cj:yfdf df6f]f ldnf0{dnsf]sfd ln0g]ePsf]h]o; nf0{ xl/of]dn eG]ul/Psf]xf]. 9}fn}v8}L/ hd\$}f]kfgLbj }v}g ; S5 . o; sf]v}L; a} k\$}f/sf]df6f]f ug{ ; lsG . o; sf] ; fy} 9}fnf0{xl/of]nsf] ; kdf wfgv}df kof]h u/}f %) kl}tzt; Dd ol/of]dna6 lb0g] gf06}hg dnsf] s6f}L ug{ ; lsG .

9}fsf]j }flgs gfd ; } Af]glof (Sesbania) xf] / o; sf]hft, khft (species) eg]w}k\$}f/sf 5g\ gk}ndf o; sf]:yflgo gfd luv{9}f xf]. gk}ndf sfsx?n]a9Lkof]h ug{hftx? ; } Af]glof Sof]lagf (sesbania cannabina) / ; } Af]glof /f]6}f (sasbania rostrata) xg\ oLa}x? sf]z}anLj udf k5g\ xfn e0/x\$}f ; a}sf]z}anlsf]h/fdf dfq jfod08nsf]

gf06}hg ; f]g]luvf? xGg\ t/ ; } afglof /f]6}f hfts]sf] anldf eg]8fF / x}f?df ; dt /f0h}laod Af]S6]lof ePsf]luvf? xg]ePsf]h]j fod08nlo gf06}hg a9Ldfqdf ; f]g ; Sg]ePsf]h]of]sf]z}anLxl/of]dnsf] ?kdf kof]h u/}f wfgafnlsf]p}kfbgdf @% kl}tzt j}4 Nofpg ; lsG . 9}fdf kf0g]vf}Tj x?sf]dfqfM 9}fdf lgDg dfqdf vf}Tj x? xGg\ . hj s kb}f}M)-& Ü gf06}hgM \$-& Ü kfi kfi; M)}%# Ü kf}f; M)#\$* Ü of]vf}Tj x?sf]dfqf 7f} tyf cj:yfdf e/ kg{ ePsf]h] km} s kl}g xg ; Sb5 .

9}fnf0{wfgv}df xl/of]nsf] ; kdf kof]h ug{lj lw hg hldgdf 9}f kN6fpg]xf]ToxL hldgdf alp 5/} ug{ ; lsG . o; nf0{ulg Dofg]/E (Green manuring) elgG . csf] 7f}df pdf/Psf]la?j fsf]kft jf :ofpnf -afof]f; _ sf6} Nof0{v}df kof]h ug{kl}g ; lsG . o; nf0 lug lnk}Dofg]/E elgG . 9}f df6f]f ldnf0{sx}fpgsf]nflu sx}Lkfg]sf]cfj Zostf k5{t/ cl; krt If]df eg]9}fsf]sDk}f6 agfP/ kof]h u/}kl}g xG . 9}fnf0{cflndf nufP/ kl}g xl/of]nsf] ; kdf kof]h ug{ ; lsG .

w}h; f]t/f0{/ leqLdw}df r}, j}z}vlt/ uxFsfl6G / wfg eg] ; fpgdf /fkf0{ ul/G . oxLuxFs}f6g]/ wfg /f]g]alrsf] vfnL ; dodf hUf}sf]tof/L u/L #) -\$) s}h}L kl}t x\$6/sf] b/n] 9}fsf] alp

5gk5{. alp 5/\$f]^ jf * xkf kl5 -km
 knlg cl3_ 9}fnf0{hft} df6f}ldnf0{wfg
 /lgebf sl/a Ps xkf cufl8 l; Ff0 u/L
 wfg /lbf clwstd wfg pTkfbg lbg ; lsgl
 s/f cg; Gwga6 l; 4 e0; s\$5 . w}cDnlo
 df6f}(Acid soil) df 9}fsf}/fdf}j l4 gxg}
 ePsfh}rg (Lime) sf]kofh ugk5{. of]klg
 elg5 ls wfg vtLug{df6f}g}dlnnf}xgk5{
 lsgls wfgdf xfdIn}tqf}vr{u/L 6k8}k
 u/\$f}ol/ofsf}sl/a ^)-&) kltzt gf06fhg
 rlxP/, au/, Pdflgof lbf e0{p8} g\$; fg
 xG / wgn}t vfnL\$) kltzt hlt dfq
 vf; pkofh u5{. To; h}9}fsf}kofh}lj zif
 u/L df6f\$}f}; a}u0fx? /fdf}agf0{wgsf}
 pTkfbg a9fp5 eG}l s/f ; #f/el/ g}l; 4
 e0; s\$}f}5 . 9}fnf0{uP uh\$}f}hldgdf
 klg vtLug{; lsG .

t/f0{leqLdwz ; db; tx blv #)))-\$))
 lkr6sf]prf0{; Dd klg 9}f vtL u/\$f}
 kf0G . t/ 9}fnf0{t/f0{leq dwz, gbL
 lsgf/sf}5p5fp, kxf8sf}a}L Ifq cflbdf
 dfq kofh ug{l; km/; ul/Psf} 5 .

xl/of}nnsf}?kdf 9}fsf}kofh}a6 xg}kuf0bf?
 !_ 9}fdf h/fsf}; fy; fy}8fF / xffix?df
 klg jfod08nlo gf06fhg l:yl/s/Of ugl
 /f0h}lj od hftsf Aofs6}/lofsf luvfx? xg}
 ePsfh}wfg /f}g}ahf o; nf0{xl/of}nnsf}
 ;kdf kofh u/\$f}v08df wfg pTkfbgdf
 pNygl j l4 Nofpgsf}; fy; fy}gf06fhg
 dnsf]klg %) kltzt ; Dd s6f}L ug{
 ; lsG .

@_ 9}fnf0{uP uh\$}f}hldg h:t}gbLlsgf/sf}
 5p5fp, cfln tyf sfGndf klg vtL ug{
 ; lsg}ePsfh}hldgsf]klg ; bkofh ug{d2t
 kU5 .

#_ 9}fnf0{vtaf/ldf g}pdf/L ToxL vtdf
 ldnfpg]klg ePsfh}c; 7fPa6 9jfgLug}g}
 cfjZostf xbg .

\$_ sd vrdf 9}fnf0{cfkg}>d / ; lka6
 cfkg}vtaf/ldf pdf/Lwfgvtdf kofh ul/g}
 ePsfh}o; df lgxlt w}h; f}vftTj sf}efu
 wfgafn}nf0{g}pknJw xG .

%_ xl/of}nnsf}; kdf 9}fsf}kofh}df6f\$}f}
 e}ts u0fx? / /f; folgs u0fx? ; wf5{.
 ^_ xl/of}nnsf}; kdf o; sf]kofh}krf}krf}; ,
 SoflN; od, kf6l; od, Dofg}; od / kmfd
 cflb tTj x? wfgafn}l}ng}l}fdtf a9fp5 .
 & 9}fsf}kofh}a6 df6f}df hj s kb}f}a9g}
 xgn} cltj li6af6 xg} e-Ifonf0{klg
 /f}b5 .

*_ xl/of}nnsf}; kdf 9}fsf}kofh}a6 ckf6
 cj:ydf /x\$}f}vftTj x?nf0{kf6 cj:ydf
 kl/Of ub5 .

(_ o; df ePsf}vftTj x? la:tf})kf6
 cj:ydf kl/Of xg}xgn}wfgafn}sf}h}lj g
 rse/ g}o; n}vftTj x? klt ug{; Sb5 .
 !)_ o; sf]kofh}a6 df6f}df ePsf}sf}d nfg}
 vnsf zld lhj f0sf}; Vof tyf ls0fsnkdf
 j l4 xG .

*nys, gkn slif cg; Gwg kl/ib, vdn6f/df j l/i7
 klj lws clwst, l6-^ kbd sfot xgxG .

; Ge{; fdhul

- e}h}dfgl; * a:g} awfgafn}ldf xl/of}nnsf}
 kofh Ps ; kmtsf}syf}Egkn slif cg; Gwg
 kl/ib\gfs{ @^^ c; f/ .
- Annual reports, Fiscal year 2049/2050, Soil science
 division.
- Training manual on quality composting, soil
 science Division, Nepal Agricultural Research
 Council (NARC).
- Bouldin, D.R. (1988). Effect of green manure on soil
 organic matter content and nitrogen availability green
 manure in rice farming. International Rice Research
 Institute.

s/Inf]v†Lklj lw

lbn axfb/ lai6 *

kl/ro

s/Inf]Hfb}kfi6s, dxËf]j xaiñl6 t/sf/L afnLxf]. o; sf]sdnf]8fF -6; f_ ; nfb, ; k tyf t/sf/Isf]kdf vfg ; lsG . o; sf] pTklQ :yfg dW Pl; of, ; tyf pQ/L o/fknf0{dfG ; lsG . gkfnfsf]kx8Leqdf hËnLcj:yfdf kç:t s/Inf]kf0G . h; nfo{ gkfnfsf]klZrdL Ifqdf letemsf8L-PnËf] eG]ul/G . gkfnf o; sf]v†LJo; ; flos ; kdf geP klg lj zifu/Lzx/L Ifqdf dfu a9b}uPsf]b]vG . kfi6s tyf kRg ; lhnf] t/sf/L ePsfh]la/fdL ePsf]tyf sdhf] JoIQm?nf0{vfg lbg]kçng k'fg]ePtfglg xfn ljleG kl/sf/ ld; f0{ksfpg]rng a9b} uPsf]5 . kjkëdW ; fu/lo Ifq / Pl; ofsf ; db|t6lo Ifqdf @)) jif{cl3b]v s/Inf]f0{ t/sf/Isf]kdf lnPsf]dfgG . cd]/sf ljZj sf]; a9b} a9Ls/Inf]pTkbfg ug]bç dfgG eg]hfkfg a9Ls/Inf]cfoft ug]bç dfgG . hdgk ; , kf]nf08, 06nLh:tf o/fklog bçx? klg s/Inf]v†Isf nflu lrlgPsf 5g\ . gkfnf s/Inf]v†Isf] Jo; ; foIs/Of gePsf]sf/Ofn]w}} hftx? kof]hdf cfPsf 5gg\ s/Inf]sf]efn]/ kfyL a9b} cnu cnu xg]xgn]hftlo ljsf; Tolt ; lhnf]5g . o; afnldf xfn ; Dd gkfnf cg; Gwg sfo{gePsfh]oxsf]lj lw ePsf]Is cj:yf ; xfp]hftx?sf]5g ePsf]b]vbg . hËnLhftx?sf]; sng tyf cWog sfo{ug} g; lsPsfh]lj bçL hftx? kçngdf cfPsf 5g\ xfn 88]w/f lhNfdf klg o; sf]; Af0f ; Dj 4g sfo{e0/xsf]5 .

s/Inf]sf]kfi6s dxTj

!)) ufd s/Inf]sf]; jga6 tkl; n ad]hndsf

kfi6s tTj x? kfpG ; lsG .

zIQM@ ls=uf, kfi6gM#! uf, sfaff06\$M #-& uf, /] f÷v/fgIM)* uf, SofN, lodM@ ld=uf, kmkrf]; M%@ ld=uf, kmfdM)^ ld=uf, kf\$fl; odM#)@ ld=uf, Dof]g]; odM !* ld=uf .

o; /Ls/Inf]f0{lrNnf]kbfy]lj xlg, sfh]6]fh / ; f8od tTj /xlt, zIQmkbfos, le6fdg P tyf l; kç:t dfqdf ePsf]pkof]LvfB kbfy\$]kdf lng ; lsG .

s/Inf]sf]pkof]h

- ; k tyf t/sf/Isf]kdf kof]h ul/G .
- l; wf 3fd gkg]vNnf 7fpff ; sfP/ kl5 pkof]h ug}; lsG .
- xl/of]j f akf0Psf]s/Inf]; AnIsf]kdf kof]h ug}; lsG .
- l8Aaf aG u/Lkl5 kof]h ug}; lsG .

j fg:kltS lj j/Of

s/Inf]sf]j fg:kltS gfd P; k/fu; clah gfm; -Asparagus Officinalis_ xf]. of] lnln0; L -Liliacea_ kl/j f/df kb5 . s/Inf]!) e9b} a9Lyl/sf]-Species_ xGg\ s/Inf]Ps aifl6 afnLxf]. efn]/ kfyLa9b} 5sf-5\$}-Diocious_ xg]of]j g:kltSf]kfyLa9b} efn]e9b} e9b} sd pTkbfgzIn / 5ff]cfosf]xG . efn]a9b}df w}6; fx? knfp5g\ t/ ltgix?sf]df0 eg] sd xG . d/Lj fl; E6g hftsf]s/Inf]lgs} kçnt 5 . gofExf0la\$ hftx? klg pknAv 5g\ ltgix?df /fu sd nfg]/ a9LpTkbfg lbg]vfn]sf xGg\

s/Inf]sf]j H / lj sf;

!= dgfsf]lj sf; -Crown Development_M

s/Inf\$]hldg dlgs]efu Ps hl6n h/fx?
kfgf -Rhizome_ ufgf] lrNnf]h/f -Fleshy
roots_ / /] fbf/ h/f -Fibrous roots_ x?
xGg\ /] fbf/ h/fx?n]df6f]af6 nj Of / kfgL
; f]b5g\eg]lrNnf]h/fx?n]vB kbfi{; lrt
ug]ub5 . o; /L ufgf]/ lrNnf]h/fdf vB
kbfi{; l-rt xg u0 s/Inf\$]axaif6 cu
aG hfG . o; }efua6 dgf pTkfbg xG .

@= 6'; f -Spear_ sf]lj sf; Ms/Inf\$]6'; f
-Spear_ vfg of]b efu xf]. o; df c]Nnf
-Node_ / cG/ c]Nnf -Inter Node_ xGg\
hg cl3Nnf]j if\$]ufgf\$]dgfa6 lj sl; t
e0 c]Psf]xG . d]lyNnf]c]Nnfdf kftnf]
s]nf e}kftn 5f]kP/ 6k]h:tf]b]vG .
udk; dodf 6'; fsf]j 4 r]xG . t/ :j f]df
sdL cfp5 . hf8f]; dodf /] fbf/ kbfi/df
j 4 xgsf]; fy}Anthocyanin / Pigment -/a\
sf]pTkfbg e0 6'; df cgfj Zos j hgL/a\
b]vk5{hg ahf/ of]b xb5 . sl; nf] df\$]
/ sd /] fbf/ ePsf] 6'; f /df] xG .

#= af\$]sf]lj sf; -Fern Development_M
s/Inf\$]6'; f olb e]rPg eg] \$-% lk6
c]hf] Dd a95 / x]fx? lj sl; t xGg\ tL
x]fx?df klg zfvf x]fx? lj sl; t
xGg\ h; df ; fgf kft h:tf Snf8f]km
-Cladophyll_j 4 xG logh]0{Fern elgG .

\$= km / kmMbf]f]txsf]x]fx?af6 kft
lg:sg]x/\$ c]Nnf -Axil_ af6 ! j6f km
lg:sG kmx? ; fgf 306Lcfsf/sf ; f /a\sf
xGg\ . kfyL kmx? c? k]meGf 7hf
xGg\ k/; f]g sL/faf/f xG . km kfyL
af\$]df n]5g\ tLkm kfs]k5 /ftf]; fgf]
P]h'enk]5g\ kfyLa\$] efn]af\$]eGf sd
pTkfbgzln / 5f]f]cfo'sf]xG . o; f]xgsf]
kd]v sf/Of kfyLa\$]sf]k]ndf km n]5g\

tLkmn]kftaf6 z]Qm/ vBkbfi{ux}Of ug{
xf]. efn]af\$]df w]6'; fx? knfp5g\ltg]x?sf]
df\$]0 eg]sd xG .

xj kfgL
s/Inf]Gofg]/ ; dlift]Of ePsf]xj kfgldf
/df]xG . g]k]nsf]dW kx]8L efudf v]L
/fd/L ug{; lsG . s/f]h]f\$]nflu xp]df
lr; f]tyf j ; G / u]ddf Gofg]df} d /df]
xG . df6f\$]t]kqmd !) l8=; }eGf sd
xgkb5 / la?j f ; ; k]fj :ydf hf}k5{.
!%-@ l8=; }t]kqmdf s/Inf\$]6'; f /fd/L
knfp5g\
df6f]
s/Inf]axj if]afnLePsf]xg]n]df6f]f o; sf]
h/f \$-^ lk6 ulx/f] Dd hf]x]f ulx/f]v]shf]
lgsf; sf]/df]Jo] :yf ePsf]an\$]b]f]6 df6f]
/df]xG . k]f]f/ls kbfi{kz:t ePsf]df6f\$]
lk=Pr^ b]v &-% /df]xG . ; fw/Of tyf
k]tj if{%) -^) lsnf]gf06f]hg, @% lsnf]
kmk]f]; / %) lsnf]k]f]f]; odsf ; fy s]L
dfqdf gg]sf] k]f]f] n]efos b]vG .

v]Lklj lw
s/Inf] tlg k\$]f/n] nufpg ; lsG .
s_ Psj if]ufgf -Rhizome_ /f]k] .
v_ l; w]alp /f]k] .
u_ @# dlxg]agf]; f/] .

s_ Psj if]ufgf]; fg]tL/s]M/s/Inf\$]k] f/Ofsf]
nflu k/f]g]s/Inf]af6 ufgf lgsfnL ; fg{
; lsG . cyj f alpa6 g; {ldf pdf/PSf]!
j if]ufgf]klg ; fg{; lsG .
■ alpa6 ufgf]tof/ ugh]0{k]h]g r]t/
alp g; {Lag]0 nufpg ; lsG . alp
pdg #- \$ x]kf n]5 . alp]n]0{r]f]f]
pdg{\$ lb; Dd @^-\$ l8=; }t]f]k]gldf

- lehfpq'k5{.
- alp %& ; dLsf]kmsdf @% ; dLulx/f / ^) ; dLsf]kmsdf /f]g' kb5 .
- Ps jifk15 xfl; of/Lkj \$ kfgf vG' k5{/ ; f]@-#) ; dLnfd]h/f; ltxgkb5 .
- s/Inf\$]kfgf !%-@) ; dLulx/fdf /fkG . kyd r/Ofdf % ; dLhlt df6fh] dgf÷6' ; f]g5f]g]u/Lkfgf 5f]g}6' ; f a9b}uPkl5 df6fh]lj :tf/}5fb}hfg].
- ; fw/OfMnf0gsf]b/L !@) ; dL/ Pskfgf blv csf]kfgf @%-^) ; dL/flvG t/ s/}faf/Idf sd klg ug{ ; lsG .
- g ; {LJof8df pTkfbg ul/Psf]@-# dlxg] lj?jf ; f/}klg s/Inf]nuf0g]ul/G .
- tiff/f]kg{ 5f8kl5 la?jf v}df /l/G .

v_ v}df l; w}alp /fk]Ms/Inf\$]alp pdg s/lj ! dlxgf nfg]ePsfh]v}df l; w}alp /fb]x/rfx gkg]x}bf pdf/ kl}tzt w}g} sd xg]ePsfh]of]t/sf rngdf 5g . tklg !@-!% ; d=ulx/f0df alp l; w}/fkG . & ; dLsf]kmsdf Ps}nf0gdf @% ; dLulx/f u/Lalp /fkG . gofF6' ; f pdg yfnkl5 df6f]yfb}hfgkb5 .

u_ @-# dlxg]agf{ ; fg]t/IsfMnfi6s Afu jf g ; {LJof8df alp /f]g]. krfug-r} jf efb}cf]Zjgdf agf{@%-#) ; dLclhf]xG / cfiff9 jf dfu}df agf{sh}f]f ; fg]/ Psr}ldf hDdf @%) la?jf cf]Zostf k5{/ alp %))-*) u}d÷/fkGL rflxG .

afnlsf]x/rfx

axj fiff6 afnLePsf]3fFx? klg axj ifi6 ksf/s}a9L kf0G . To; h]; do ; dodf uf\$dh ug{k5{. afnLnufPsf]bf] f]j if{ Dd

ufgfsf]j/lk/ df6f]; Sg' xfbg . afnInf0{ ln0{ skl5 lj?jfn]; Vvfk g dxz'; ug] ePsfh]; Ff0{lbk5{ hf8f]; lsPkl5 ; s\$]f afx? h/fnf0{gfs; fg gkg]u/LxNsf uf\$0 u/Lufh/dnsf ; fy}ol/of / rg @ s}hL- kl}t /fk]sf b/n]df6f]f ldnfP/ xNsf 8dfE agfpg'k5{.

/f] tyf sL/f

of]afnldf nfg]/f]x?df l; Gw/] cf]Onfpg] h/f slxg]/ ls/fx?df vk6] nfxL tyf cG df6f]dgL xg]vd}k? kd'v xg}\tg]x?sf] lgoGof cG afnL ; /x g}ug]t/ 6' ; f cf0 ; skl5 lj iffbLg5g}.

s/Inf\$]afnLlng]cj:yf

s/Inf]/fk\$]t}f]j ifb]v dfq afnLlng z? ugk5{/ Pp6}af\$]n]!%-@) jif{ Dd pTkfbg lbg ; S5 . t/ hft cg' ; f *-) jif{ Dd /fd]pTkfbg xG .

- klxnf]@ jif{ Dd afnLlng plrt xfbg, lnPklg w}6' ; f l6kg xfbg . 6' ; fnf0{xsg lbPdf vfb kb}ydf j}4 cf0{kfgdf ; lrt eP/ csf]j ifb]v a9L6' ; f cfpg]xG . ; fw/OfofMafnL @ dlxgf; Dd lng ; lsG .

- 6' ; f !% blv @% ; dL-nfd]ePkl5 sf6] jf eF] lgsfng ; lsG .

- 6' ; f sf6bf hldgb]v @% ; dL-dg]L/ ufgf]blv % ; dLsf]b/Idf sf6g'k5{.

- sdnf]; t]f/ df6f]6' ; f ahf/ of]b xG .

- cfwf 0Gr k}hdf sf6L dgtftf]kfgldf 8af0{/fv}df !-@ lbg; Dd t}hf /xG .

- dW kxf8df krfugsf] t}f]xkfb]v cf]Zjg; Dd / t/f0df krfug klxnf] xkfb]v sft\$; Dd s/Inf\$]pTkfbg lng ; lsG .

■ 6; f sf6kl5 rB}g}o; sf|uOf:t/df xf; cfp|ePsfh]; kn0 u/lk5 e08f/Of ug{k/df (-!) l8=; }eOf sd tkqmdf /fv'k5{.

pTkfbg s'/Inf]sf]; /b/ pTkfbg @)) b|v %)) ls=uf|kt /fkLxG . t/ /df] f Joj :yfk u}f|eglj 0z s/ efn]hftsf s'/Inf]f6 &) b|v *)) ; Dd klg pTkfbg lng ; lsG .

- ; Ge{; fdful.
- ▶ s]if a]fl; s jif{#* @)%* cS ! t/sf/L lj z]ffs,+j}zfv h]7 @)%*
- ▶ k]lj lws kl:tsf, t/sf/Llj sf; lgb}zgfno)^&:-)^*
- ▶ s'/Inf]v}Lkl:tsf t/sf/Llj sf; dxzfvf, vdn6f/)%^÷)%&
- ▶ lbgz ; fks}f, s'/Inf]v}Lklj lw kl:tsf s]if ; }rg tyf ; f/ s})%^÷^^
- ▶ s/} faf/L/ t]hf t/sf/Lv}Lkl:tsf t/sf/Llj sf; lgb}zgfno @)^!÷^@

gkfnsf]eQrk/ lhNfdf j Gsf]06}§]ktnL Kn6hf hfOnf]6hf -Pn= -nk]8f6]f Kn6h]8L lj?4df afof] gn kbfx?sf]k}j sf/Itf

- dGlf s6j fn

zfv-; f/

eQrk/ lhNfsf]tfynL, j fns} / blws} uf-lj=; x?df s]fsx?sf]; fdflhs cly\$ cj:yf, x]lgsf/s sLfx? dVotM06}§]ktnL, Kn6hf hfOnf]6hf -Pn_ sf]k\$} / Ift tyf s]fs :t/df o; sf]Joj:yfk af/]kQf nufpg 0; g @!) df k}fn; hgf s]fsx?sf]; j]f]f ul/of]. k}fM}fsx? -*@#_ ; If/ lyP . ; a}h; f]s]fsx?n]-nueu !)) Ü_n]06a§]ktnLsf]/f}yfdsf]nflu /; folgs lj iffbLk}f] u/}f] kfOof]/ cf] tdf #^ k6s lj iffbLsf]k}f] u/}f]kfOof]. o; sL/sf]Aoj:yfkgsf]nflu eQrk/ lhNfdf s]K]6 /}8f]f0h8 Ans l8hf0g lkn8df k}f] u/L & j 6f pkrf/x?Üs_ uf0sf]uxE ! efu÷\$ efu kfgL; f v_ e} Isf]dq ! efu ÷\$ efu kfgL; f u_ afv}sf]dq ! efu÷\$ efu kfgL; f 3_ e}sf]dq ! efu÷\$ efu kfgL; f ^_ erf]dn ! efu÷\$ efu kfgL; f r_ af]/uf8{@Pd=Pn=ln6/ / 5_ lgoG}f -kfgLdqf k}f] u/}f] tlg k6s b}f}fOPsf]lyof]. o; sL/sf]; a}Of a9Ljo:s -c7xQ/ j 6f_ ; q dfr}f N} ; lxtsf]j }f-6L6}kdf j }f; f/}f]^@ lbgdf k/}f]lyof]. jo:s sL/f 8]6f 6}kdf eOf j }f-6 6}kdf j 9Lk/}f]pQm6}kfsf]k}j sf/Itf /fd]b]vof]. lkn8 k/If]f] erf]dnsf]k}f]af6 ; aeOf a9L nfe{d]ob/ kfOof]eg]To; kl5 qmzMa]/uf8{ uf0sf]uxE, afv}sf]dq, e} Isf]dq / e}sf]dqaf6 kfOof]. kzdq cGtu{sf pkrf/x? erf]dn, uf0sf]uxE, afv}sf]dq, e} Isf]dq / e}sf]dqsf]k}j sf/Itf 5/}f]; ft lbgkl5 36b}uPsf]t/ 9; L/ Pg-k}e} ldl>t h]s lj iffbLsf]pkrf/sf] ptf/ r9fj ; lxtsf]glthf kfOof]. ; a}Of sd k}f]ts zqx?sf]; }f erf]dn pkrf/t Kn6x?df kfOPsf]lyof]. ; a}Of a9Lj Of 8Nfsf]pTkfbg / vf; pTkfbg erf]dn pkrf/t Kn6x?df kfOof] eg]8Nfsf]afx/Lkftsf]; a}Of sd Ift eg]af]/uf8{pkrf/t Kn6x?df kfOof]. ; a}Of a9Lv; c]fbfgLerf]dn pkrf/t Kn6df ePsf]kfOof] h; n]s]b}yfof]eg]lgoG}f u/}f]Kn6sf]thgdf ; a}Of a9LpTkfbg erf]dn pkrf/t Kn6df / To; kl5 qmzMa]/uf8{ uf0sf]uxE pkrf/t Kn6x?df ePsf] kfOof]. ; a}Of sd pTkfbg eg]lgoG}f u/}f]Kn6df kfOPsf]lyof]. c]fbfgLnfutsf]cgkft erf]dn pkrf/t Kn6x?df ; j }eOf a9L-\$=) !_ kfOPsf]lyof]eg]; a}Of sd -@(#_ lgoG}f Kn6df kfOPsf] lyof]. af]/uf8h]pkrf/ u/}f]Kn6sf]pTkfbg -* (-&% d}6÷x} uf0sf]uxE pkrf/t Kn6sf]pTkfbg -* (-@^ 6g÷x}6/_ sf]eOf a9LkfOPtf klg c]fbfgLnfut cgkft eg]cl3Nf}f]thgdf kl5Nf}f] yf]}a9LkfOPsf]lyof].

abfdfs]dxTj tyf pTkfbg lj lw

>Leuj fg 7fs/*

!_ kl/ro
abfd gkfnsf]
t/f0b]v dW
kxf8; Dd x'g]
t]hxg tyf gub]
afnLxf]. of]kms
ls!; dsf]afnLxf]
o; sf]km hldg
dfly km] / ! blv
% j 6f -km_ sfz
df6f]lg km]g]
ub5 . of] dW
kxf8LlhNxf?df

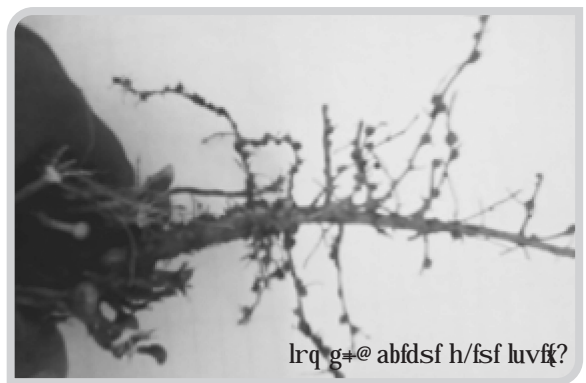


/x\$]5 . lxG"tyf
d; lndx?sf]lj j fx
xlf s\$fnf0?dfndf
af] ?koff]abfd
; kf/L lbg] rng
klg /xsf]5 . of]
ze j:t' ePsfh]
o:sf]koff] khk7,
lj j fx, v' lofnIsf
lbgx?df ul/G .
o; df \$%Ü t]h
tyf @^Ü kf]lg
kf05 . o; df pRr

/ft]df6f]ePsf cl; lr t 6f/x? / t/f0sf
gbL, v]hf lsgf/fsf km]x?df vtLug]u/\$f]
kf05 . o; sf]pTkbsTj *)-!))) ls-uf]kt
x\$6/ 5 hg c? bzx?sf]thgdf sd /x\$]5
5 . pTkbsTj sdLxg'df pGt alp tyf
pGt klj lw gckgfp'xf].

:t/sf]kf]lg afx\$ yfodlg, /f0af]km]lj g,
lgs]lgs Pl; 8 tyf le6fdlg 0{kf05 .
abfddf vlghsf]gddf SofN, lod, km] km];
/ kmfd a9Ldfqdf g}kf05 .
o; af6 t]h lgsfnL; skl5 af]L/x\$]lkgfnf0
kf]ul/s dn / kzj:t'sf]bfgdf koff]
ul/G . lkgdf &-*Ü gf06hg, !-%Ü km] km];

@_ koff]
abfd e6] vfg]lj leG kl/sf/df ld; f0{koff]
ug]ul/G . o; sf]koff] jg:klt fo"pBf]
tyf t]h kz]wg sf/vfgx?n]sRrf kb]y\$]
; kdf ug]ul/G . oftfoft ug]ahf a; ,
6gdf ; do latpg, l; gdf ; /s; , /uzfnf,
cfd; ef, ef]f0sf]ahf e6\$]abfd a9Lvfg]
ul/G . o; n]a9Lefp hfg] sfz]afnL, kf]lg
/ t]h lbg] ePsfh] gub] afnIsf] ; kdf
df]lg .



lrg+@ abfdfs h/fsf luvf?

abfdfs]koff] lxGx?sf]rf8 lj ifzul/ kmu'
kl0f]df x]nsf b]osf]; x/ kl5 v' lofnL
dgfp'g /u clj /; f}abfd ; kf/L lbg]rng

/ !-%Ü kf]f; kf05 . o; sf]h/df gf06hg
l:y/ls/of ug]luv{ kx:t kf0g]xgn]
abfdafn]v]sf]afnLkm]j]f ablng /df]
df]lg h; af6 df6fsf]pj {fzlQma9b5 .

#_ >ft alp Joj :yfkG
 alpsf] nflu t hafnL cg! Gwfg sfoqmd,
 gjnk/ tyf cG ljZj:t >ftaf6 cfjZos
 dfkb08sf]z4 alpsf]Joj:yf ugkb5 .

\$_ Hftx;
 Abfdsf hftx? dVotof # lsl; dsf]xGg\
 tLsg\ enffig] nx/]tyf cw{nx/]lsl; dsf .
 enffig]lsl; dsf hftx?sf kftx?sf]/u xNsf
 xl/of] ; xkftx? Rf8f / l5\$}tof/ xg]vfnsf
 xGg\ of]hft kftsf]yf]h]-l6sf_ /f]af6
 a9Lul; t xg]ub5 . nx/]lsl; dsf hftsf
 kftx? Uff9f xl/of]/usf ; -; fgf xGg\
 oL hftx? Nfd] ; dodf tof/ xg]xGg\
 cw{ nx/]lsl; dsf hftx? enffig]lsl; dsf
 xGg\ tn pN]vt l; knf/ ; ePsf hftsf
 u0x? ; lxt JofVof ul/Psf]5 .

aL\$
 o; sf kmx; dVo sf08df gkmL ; xfos
 xffix; sf j }lNks cfWnfd dfq km5g\
 o; nf0{elhkgof aGr elgG . xffix; ; fep
 dfly a95g\ / sf] fx; aff\$sf] glhs}
 km5g\ sfzdf kfom# bfgf, sXldf @ /
 sXldf ! klG xG . Ps; o bfgfsf]tfn #*-\$@
 uf= xG . of]!@-!\$) lbgdf tof/ xG .
 o; sf]sh pTkfbg &%-!)) lsnf]klt /fkGL
 xG .

hgs
 o; sf]klg dVo sf08df kmx? gkmL ; xfos
 xffix?sf j }lNks cfWnfd dfq km5g\
 ub5g\ ; xfos xffix? sXLkmP/ a9g]
 ePsfh]sf] fx? affeGf 6f9f; Dd klG km\$
 xGg\ 7hf sf] fx? xGg\clwsf+ sf] fdf
 @ bfgf / sXldf ! klG xG . Ps ; o bfgfsf]
 tfn ^)-^% uf xG eg]!\$)-!%) lbgdf

tof/ xG . sf] fsf]pTkfbg !))-!)) ls=
 uf= klT /fkGLxG .

cf0€ l; = h+ P; = -0€ %^
 of]:klg; aGr lsl; dsf]ePsfh]dVo sf08
 / xffidf kmx? cfp5g\ ; a}cfWnfd kmx?
 cfpG ; S5g\ sf] fx; aff\$ glhs}km5g\
 sf] f ; fgf xGg\clwsf+ sf] fdf @ bfgf /
 sXldf ! bfgf dfq xGg\ Ps; o bfgfsf]
 tfn #%-)\$) ufd / kfSg]cj lw !!)-!@) lbg
 xG . o; sf]pTkfbg klT /fkGL^)-&% lsnf]
 xG .

%_ df6f]tyf xfj fkgL
 abfd ljleG lsl; dsf] df6f]df nufpg]
 ul/G . t/ ; fdfGof kful/s kbfy{ePsf]
 vghft ubf{8Nnf k6Ss}gxg] kfglsf]lgsf;
 /fdf]ePsf] anff]bf6 df6f] kLPr ^ blv
 ^-% pkoSt dfgG . o; sf]vT]lsf]nflu @
 l8ul ; + blv #% l8ul ; + Dd tfkqmd /
 abfdsf]pTkfbg cj lwdf %)) df blv !)))
 ld= dL; Dd jiff{cfjZos xG . o; sf]vT]L
 t/f0€ leqL dw] / dV0 kxf8L 6f/x; df
 ; kmtsf ; fy ug{ ; lsG .

^_ nufpg]; do
 abfd jiff]f @ k6s jiff{/ j ; Gt Ctdf vT]L
 ug{ ; lsG . t/f0€ / leqLdwzdf ; fdfGofM
 jiff{z? ePkl5 hj]7sf]bf; f]xktb]v c; f/sf]
 bf] f]xktf; Dd nufpg ; lsG . l; Ff0sf]
 ; lj wf ePsf t/f0€]df l56f]kfSg]abfdsf
 hftx? -cf0€; -h=P; = -0€ %^ jf cf0€
 l; -h=P; #^_ kmNugsf]klxnf]xktfd klG
 /fk] pTkfbg lng ; lsG t/ jiff]fddf alp
 ; sfpg ljzif Wfg lbgkb5 .

& /fkg]hldgsf]tof/L



lrq g+# alp /fkg]b/L/ t/lsf

Df6f\$]ls!; d x/L@# k6s vghft u/L, kf6f nuf0{df6f]a/a/fp]kfg{k5{. jiff\$] kfgLj Nsh}ghDg]u/Lgsf; sf]plrt kGw ldnfpgkb5 . /fd/Lkfs\$]uf7dn jf sDkf6 dn alp nufpgEbf Ps dlxgf cufl8 g} df6f]ld; fpg' kb5 . l; kmf/; ul/Psf /f; folgs dnx; Abfd /fkg'cl3 clGtd hftf0{ f}Psgf; n]5/} df6f]ld ldnfpg' kb5 .

*_ dn vfb

dnvbsf] dfqf df6f\$] pj {f zIQmf e/kb5 . v}af/lsf]hfTg]ahdf \$)-%) 8f\$]kfs\$]uf7dn ÷sDkf6 dn df6f]ld /fd/Lld; fpg'kb5 . abfd v}lsf]nflu ; /b/ dnvbsf]dfqf ! lsnf]gf06fhg, @ lsnf] kmf]kmf/; / ! lsnf]kf6f; klt /fkgL rfxG . o; afx\$ Sofn; lod / ; nkmoSt dn -Sofnl; od ; Nkm_ lhK d !)-@) lsnf] klt /fkg]sf]b/n]abfd 9sdSs kmx? cf0; skl5 af\$]sf]j/kl/ 5gkb5 . o; sf] kof]haf6 sf] f 7hf]/ bfgf klf]fnf]klg xg d2t kYof5 . kmfd tTj sf]sdlsf]nIf0f b]vPdf #% ufd klt /fkgLcf0g tTj ePsf] dN6Ik\$; @)-#* lbgf]kmsdf 5gkb5 .

(_ alp pkrf/

olb hldgdf klxnf]k6s abfd v}Lul/g yfnPsf]5 eg]/f0hflaod Pg; E@gfds

lhj f0f dn #% ufd whf]!) ln6/ kfgldf 3fh agf0{Ps /fkgldf alp /fk; skl5 dlyaf6 3fh vGofpg' kb5 jf /f0hflaod dn *-!) ufd klt lsnf]alpsf b/n]alpsf] kftnf]tx glalug]u/L/fdf] f ld; fpgkb5 clg alp /fkgkb5 .

df6f]ty alp hlgt /fux?

kftsf]yfn] l; G/}tyf slxg]/fh bflbaf6 aRg % ufd yf0/fd cyjf Sofk6fg jf ; } fgaf6 /fd/L alp pkrf/ ugkb5 .

!)_ alp b/

abfdfs]alp sf] f %)-^ lsnf]klt /fkg]sf b/n] /fd] >f}af6 Joj:yf ugkb5 .

!!_ /fkg]b/L/ t/lsf

Abfdfs] km]ng] hft h:t}hgssf] nflu nf0gb]v nf0g \$) ; dE/ alpb]v alp @) ; dE/ clhf]xg]hftsf nflu h:t}MaL \$ / cG hft #) ; dE nf0gb]v nf0g / !% ; ÷ dE alp alpb]v alpsf]b/ldf nufpg' kb5 . alp nufp] hldg tof/ ul/Psf] v}af/ldf nf0g tfg] jf xnfsf]l; of\$]k5fl8 %-& ; dEsf]ulx/f0df alp nufP/ df6fh] /fd/Lkgkb5 .

!@_ uf\$dh

abfd cG afnleGf a[h}k\$]tsf]5 . of] afnlsf]kmx? xfnfd km]5g\t/ uefwg kl5 ; 0/f\$] ; kdf sf] fsf]lj sf; df6]eq xG . To; sf/Of ; 0/f]df6]eq k:g / sf] fsf] lj sf; xg, df6f]vshf]agf0{/fVg / enf/sf] k\$fk 36f0{/fVg /fk\$] !%-@) lbgkl5 klxnfk6s / #%-S) lbgkl5 bf] fk6s uf\$dh ugk5{. To; kl5 uf\$dh ubf{eg]df6f]ld k; \$] ; 0/f]aflx/ lg:sg ; S5 / pTkfbg 36g ; S5 .

!#_ l; Ff0
of]afnLj iff6ddf xg]ePsfh]Tolt l; Ff0sf]
cfjZostf kb5 t/ kmh kmhg]cj:yf; ; 0/f]
k:g]cj:yf / sf] fsf]lj sf; xg]cj:yfdf
; Wf / lr:ofg sd ePdf l; Ff0sf]Joj:yf
ldnfp'kb5 .

!\$_ abfd vG]
abfd /fk\$]@% lbgkl5 kmh kmhg]tyf
df6f]df; 0/f]k:g]qml rln/xG . To; h]
; DkOf{sf] fx? Psk6s kl/kSj xg; Sb5 .
To; sf/Of kfs]gkfs\$]hfRg @-# j 6f af\$
pv]Lsf] fsf]cj:yf xg'kb5 . olb &)-*)
kltzt sf] f s8f / kf]6nf]5g\eg]vf]6sf]
leqL efudf snf]WfF]/^cfPsf]5 tyf
bfgfsf]aflx/Lkftnf]kq cf`gf]hftlo uOf
cg'; f/sf]/-uhfaL v}f]sfuh_ e0; s\$]f]
5 eg] af\$ dg{ yfnk15 abfd vgL
xfg'kb5 . Hfb}9nf]u/Labfd vgd]f abfd
hldgd}pldg; ; Sg]; Defj gf xG, af\$ /
sf] fsf]; Dks{66} vG]HbfdLvr{a9Lnf]g
; Sb5 .

!%_ sf] f; ;sfpg]/ e08f/Of
abfd vglk15 kf]6nf]s8f vfnsf sf] f 5fg'
kb5 / ; -; fgf /fd/Llj sl; t gePsf sf] f
56dfpg' kb5 . 7hf kf]6nf]sf] fnf0{^-*



3fddf sf] f xNfpbf v\$-v\$sf]cfj fh, bfgf
cf]fn]/u8bf bfgf afx/sf]kq; ; lhn} F
hfg] xbf; Dd; ;sfpgkb5 . o; /L; ;sfOPsf]
sf] f * kltzt; Dd lr:ofg sfod u/Le08f/Of

ug{k5 . xj fsf]; #f/ xg]u/L3/df sf7sf]
kmhfs dly af/f jf esf/ldf klg e08f/Of
ug{; lsG . g; s\$]f]abfd e08f/Of ubf{
P; k/lhn; ^nfe; 9'; L nfuL bfgfdf
P^nf\$; lg gdfs ljif p'kGg xg; ; Sb5,
h; n]SofG / lgDofp5 .

!^_ alp p'kfbg
of]afnL:j o;#rt afnLePsfh]Joj; flos
alp p'kfbgsf nfuLkystf b/LPs hftsf]
k6b]v csf]hftsf]k6sf]b/L!) -!% d16/
/ >ft alp p'kfbgsf nflu !)) d16/ xg'



kb5 . of]afnldf sDtldf b0k6s ahft
x6fpg'j f /luE ug'kb5 . kyd kmh kmhg'Gf



cuf]8 csf]hftsf uOf ePsf af\$ / /f] sL/f
nfu\$ af\$; fy}cgfjZos en/x?; fdlxs
;kn]lgsfNg' kb5 . bf}f]k6s kmh kmhg]
ahfd c? hftsf uOf ePsf kmhsf]/-
b]vPsf af\$;nf0{lgsfNgkb5 . abdfs]
hft, df6f\$]pj {fzlQmJo:yfkgsf]cfwf/df

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cbj f vṭL

ufpṣf]j ftj /of
:yfgM sṣif ; jf sṣb |

dbg sdf / ; jṣ*

a9L cfdM P= hṣṣP= afa' nf}d t cf0ku] t kṣf]clkm df ==
hṣṣP=M cf]xṣf] == cdf gd:sf/, cfpḡxf] \ otf ; lhnf]u/La:gf] \
a9L cfdM d t oxL dṣdf a:5' -a; ṣf] cleḡo ubṣ pkmca t udl{klḡ a9ḡ yfnṣ oxṢ; Dd cf0kṢḡ ; fx} sl7ḡ eof] .
hṣṣP=M a9f a9L dfḡ] dnf0{va/ ug{ ePsf]eP t pt}3/lt/}cṣḡ]lyP ḡ aṣf/df lsg bM ug{kṣof] / .
a9L cfdM cfkṣf0{sdf k/kl5 cṣḡ}kṣof] ḡ 5f]f .
hṣṣP=M s]sdf kṣof]To:tf]n eḡḡxf] \
a9L cfdM cbj f vṭLsf]af/ḡf hḡsf/L rṣxof]dnf0{ ToxLeP/ hṣṣP-afahf0{eḡḡ ; jf sṣb |cṣPsd .
hṣṣP=M cbj f vṭLug{cdf <
a9L cfdM cṣ == afa' Ūcbj f vṭLu/fṣ eg] .
hṣṣP=M slt hṣdf nufḡ]lj rf/ ug{eof] t cdfn] <
a9L cfdM kḡn]vṭLug{t/sf l; sṣcbj faḡ slt kṣf ug{; lsḡ, Toṣ; ḡṣcḡ sltdf nufḡ]ḡḡ u/fṣ .
hṣṣP=M cbj f vṭL t dṢ kṣf8L Ifḡdf ; kmṣsf ; fy ug{; lsḡ . ca clx]t t/f0{Ifḡdf klḡ cbj f vṭL /fd]ePsf]5 cdf .
a9L cfdM To}; ḡ] d klḡ cbj f vṭLu/fṣ eg] ; fṣ agṣPsd .
hṣṣP=M cbj f vṭL ; dḡ |; txbṣ !%)) ld6/ prf0{; Ddsf]xḡ fḡḡdf ; kmṣsf ; fy ug{; lsḡ . o; sf nḡ @) -#) l8=; ṣ ; Dd pkoQmtfkḡṣ dḡḡP klḡ clwQṣ #%

l8=; ṣ ; Dd cbj f jfn]n]; xḡ ; Sb5 . clḡ cbj fsf]afnLcj lwdf %)) -^)) ld= d= j iff{ ePdf pṣḡḡ /fd]xḡ .
a9L cfdM clḡ afa' cbj f afnLsf]nḡḡ dfḡ] s:t]xḡk5{t <
hṣṣP=M dfḡḡ]xṣdf rṣṣPsd}lr Dḡḡf] j f v; f]afn] foQḡdf]afṣḡ clwṣṣ dfḡḡ cbj f vṭLug{; lsḡ . t/ kṣf]s kbṣ{ kṣ:t ePsf]bḡḡ lsl; dsf]dfḡ]; aeḡḡ pkoQḡḡḡ .
a9L cfdM cDḡḡḡ Toṣ] /]lk=Pr= slt xḡ' k5{ t of] cbj f afnLsf] nḡḡ .
hṣṣP=M cbj f afnLsf]nḡḡ lk=Pr=dḡ %ḡ bṣ ^ḡ ; Dd ePsf] /fd]dḡḡ cdf . clḡ hṣsf]toḡ/L; dodf j iff{ḡ]kḡḡḡḡ]u/L sh] f]sḡḡḡ; sf]Joḡ :yf ldnḡḡ'k5{ .
a9L cfdM kḡḡḡḡ]cbj f afnLauḡ eg] xṣḡ xḡ afa' <
hṣṣP=M xḡ]cdf, cbj fsf]ufḡ]sḡḡ]u5{ To; ḡ] lr:ofḡ rḡḡ t/ kḡḡḡḡ]u/L ḡḡ; sf]Joḡ :yf k5{ .
a9L cfdM cbj f nufḡ]; do rḡḡḡḡ] /fd]xṣḡ afnL nufḡ]pkoQḡ; do eḡ ḡḡ .
hṣṣP=M cbj f nufḡ]; do rḡḡḡḡ leḡḡ 7ḡḡ]xḡ fḡḡḡ e/ k5{cdf . h:t]ls dṢ kṣf8L Ifḡsf]nḡḡ kḡḡḡḡ]clḡd xḡḡ bṣ rḡ dlḡḡ leḡ cbj f nufḡḡ pṣḡḡ /fd]ḡḡ ; lsḡ cdf . t/ klḡ dḡḡ cg; f/ kḡḡḡḡ]ḡḡ eof]eg] j ṣṣṣṣ]bḡḡ]xḡḡ; Dd nufḡḡ klḡ xḡ .
a9L cfdM cbj f afnL nufḡ ḡḡḡ eof]eg] s]xḡ / hṣṣP= afa' <
hṣṣP=M rṣ-j ṣṣṣṣ klḡ ḡḡḡ eof]eg]

alpsf pdg]zIQmg}36] hfG / kl5 p'kfbg
 klg sd xG cdf. klf hlt l9nf]u/Lnufof]
 afnL kfSg klg l9n}xG h; n]ubf{kl5
 nuf0g] afnlnf0{ ; d} c; / k5{ .
 a9L cdfM klxn]eml6 kfgL kg{lalQs}
 kufugsf]clGd xkf jf r} !% leqdf cbj f
 afnL nufp]f]g 5f/f .

h}6LP=M xG cdf . ; dod}afnL nufpg'
 p'kfbgsf]lx; fan] /fd] dflgG cdf U
 a9L cdfM ca v}L ug{ePkl5 cbj fsf]
 alpsf]klg hfxf]ug{k}of]afa' Ualp cbj f
 stLnfG <

h}6LP=M alpsf]dfqf cbj fsf]hft xj fkgL
 nufpg]; dodf e/ k5{ . ; fdGtofM; fgf]
 ufgf xg]hft 5 eg]klt x\$6/ \$-rf/_ 6g
 cyff klt /fkGLjf 8} s]f hLufsf]nflu
 @) -b0{; o_ s}h} cbj fsf]alpsf]cfj Zostf
 k5{. To:t}7hf]ufgf xg]h:tf]; Nofg, e}hk/
 / O}fd htsf]nflu klt x\$6/ ^-5_ 6g /
 klt /fkGLjf 8} sfsf]nflu #) -ltg ; o_
 s}h} cbj fsf] alpsf] cfj Zostf k5{
 cdf .

a9L cdfM clg cktmf0{cfj Zos cbj fsf]
 alp sx}f6 klt ug{; lsG t < dnf0{t
 cbj fsf]alp rlxof].

h}6LP=M cf]g]5/ l5d\$df s; h}v}Lu/\$f]
 5 eg] Toxfkkg klt ug{; lsG cdf .
 geP hLs}j}sf}of}o dkt cG Ifqaf6
 klg s]fsx}sf]dfusf]cfw/df cbj fsf]j lpsf]
 hfxf]ug{; lsG cdf .

a9L cdfM nf}To:tf]eP dnf0{@ /fkGL
 hLufsf]nflu cbj fsf]alpsf]hfxf]ul/lbg'
 k}of]h}6LP=afa' .

h}6LP=M x; == xG cdf d aen}f /
 cdfnf0{va/ u/f}f

a9L cdfM; h}Lh}6LP=afa' cbj fsf]pGt
 hftx? s]s]5gV] <

h}6LP=M clxn]x}df]b}zdf v}Lul/b}cfPsf]

cbj fsf]hftx?df ; Nofg, e}hk/, O}fd /
 sk'/s}f p'kfbgsf bl}6n]pTs}6 dflgPsf
 5g\ oL ; a}hftx? af] lju}f kb}5g\
 a9L cdfM of]af] / g; leg\$]rf]fS:tf]
 afa' <

h}6LP=M w}]/ f ePsf]cbj fnf0{g; / sd
 g; f ePsf]hf0{af]]eG]k}ng 5 cdf .
 clg cdf alp 5gf} ubf{ufgf]s}lg]/f}
 gnfu\$]v}sf]xgkb}5 . /f} tyf sL}gnfu\$]
 sld}df Pp6f /fd]6'; f lg:sg ; Sg]k}6nf]
 ufgf]cbj fsf]alpsf]nflu 5fG' k5{. alp
 5f}bf ufgf\$]cfsf/ x}L\$) b}v ^) ufd
 ; Ddsf]cbj fsf]alp ufgf]/fd] dflgG .

a9L cdfM alpsf]s/f klg eof]ca hLufsf]
 tof/Isf]s/f eg 5f/f . cbj f afnLsf]nflu
 hLuf s'g tl/sfn] tof/L ug{k5{ <
 h}6LP=M cbj f nufpg]hldgnf0{#} \$ k6s
 vghft u}/ hLufdf ePsf]enf/kft tyf
 cl3Nnf] afnLsf] 76f 76L x6fP/ k}f}f/s
 s}k}6 dn df6}f ldnfpg'k5{. of]s}k}6
 dn klt x\$6/ @) 6g / klt /fkGLjf 8}
 s]fsf]nflu %) ÷ ^) ef/L hldgsf]tof/ldf
 g}df6}f /fd] f ldnfpg' / vghft ulx/f]
 ug{cdf .

a9L cdfM P== cbj f afnLsf]nflu hftf0{
 ulx/f]ug{k5{.

h}6LP=M xf]cdf cbj f afnLsf]nflu ulx/f]
 hftf0{ug{k5{. ca s/f cfp} alp pkrf/sf]
 cbj f afnLdf kl5 ufgf]s}xgf]/f} gnuf]
 eGfsf]nflu alp /fk' klxn]g}!) ln6/
 kfgldf @% ufd O}f}km Pd=\$% -Df}f}j_ /
 !) ufd allei6g -sfa}fhd_ ld; f0{agfPsf]
 3}h}df cbj fsf]alp ufgf?nf0{Ps 306f; Dd
 8}fpg]To; kl5 5f}f} ; sfpg]/ cf}P kl5
 tof/L hLufdf nu} cbj f /fk] cdf .
 a9L cdfM ca cbj f /fk]klg tl/sf x}f
 dnf0{Tof]klg /fd] f atf0}p .

h}6LP=M tof/L hldgd} #) ; dLsf]kmsdf

s6f]j f sffnfsf]; xoffaf/f !) ; dL= ulx/f] sh] flagfpg]To; kl5 alp ufgf? #) ; dL= sf]b/Idf /fk] /fkPsf ufgf? dfly ^-& ; dL= df6f]kg}u/L cbj fsf]alp ufgfhf0{ 5fkLlbg]cdf . olb 7hf]Ifqdf cbj f v}L ug{5 eg]#) ; dL= kmsdf b/Lsfod xg] u/L xnf]sf] k5f18 klg /fk] ; lsG . a9L cdfM clg 8dfE agfpg' kb} < h}P=M le/fnf]hufdf kfgL hDg]; d:of gePsfh]8dfE agfpg' kb} t/ Hbfj jiff{ xg]tyf ; dy/ hldg 5 eg]To:tf]7fpdf !% ; dL= chf]/ Ps ld6/ r}f0sf]8dfE agfpg' /df]xG / rf]/t/ kfgLlgsf; sf] Joj:yf klg ldnfpg' k5{ . a9L cdfM clg h}P=M= afa' cl3 sDkf]6 dnsf]t s/f u}f]-csf]/f; folgs dnsf]t s}/u/gf} . h}P=M sDkf]6 tyf uf7]dn t hufsf] tof/Idf g}df6df ldnfpg]/ /f; folgs dnsf] xsdf l8-P-kL% lsnf]klt /fk]Lj f 8} s}f hldgsf]nflu cbj f /fk] kln]df6df ldnf0{ alp /fk] . To:t}D} ckmkf}; \$ lsnf]f0{ @ k6s u/Lklt /fk]Lj f 8} s}f]nflu @ lsnf]hldgsf]cltd tof/Idf / af}L@ lsbnf]cbj f pd}f]@ dlxgf kl5 6k8}sf] ; kdf lbg]To:t}ol/of rlfxF@ k6s lbg]. alp ufgf]/fk]sf]! dlxgkl5 klt /fk]Lj f 87 s}f]nflu # s}hL= ol/of 6k8} ug] / To; sf]! dlxgkl5 cyff alp /fk]sf]@ dlxgkl5 # s}hL= ol/ofn]6k8} ug]. clg cdf cbj f /fk]l5 5fk]lbof]eg]/df]xG . a9L cdfM P= cbj f /fk]l5 5fk]xfNgk5{< h}P=M s/f]s]5 eg]cdf cbj f /fk]l5 6'; fp/ hldgsf]; txdf cfp g ! b]v # dlxgf; Dd nG . To; h]lr:ofg arf0{/fVg 5fk]lgtfG cfj Zos k5{ . csf]s/f 5fk]h] enf/kfts]/f}syf u5{ e"lfoaf6 arfp} / jiff]sf]kfgL; 8g u0{df6df kfEfl/s kbfy{

ylkG / df6f]sf] pj {f zlQma9fp} . a9L cdfM xG afa' kln]cbj f /fk]clg 5fk]sf]klg Joj:yf u/f} clg cbj f afnInf0{ uf}dh ug{k5}lg xg 5f/f . h}P=Mk5{cdf, cbj f afnLpd}f]! dlxgf kl5 ufgfhf0{c; / gkg}u/L uf}dh ug{/ # lsnf]klt /fk]Lof 8} s}f]b/n]ol/of 6k8} ug]. To; kl5 @ dlxgkl5 xNs; f uf}dh]u/L af}L # lsnf]ol/of / @ lsnf] D} ckmkf}; df6df ld; f0{lbg]cdf . a9L cdfM clg l; Ff0sf]cfj Zostf slQsf] k5}lg afa' cbj f afnInf0{< h}P=M xdf]b}df cbj fsf]afnInf0{j if] j fnlsf]?kdf nuf0g]ePsfh]; Ff0sf]To}t cfj Zostf kb} t/ j fnLnufpg]; dodf klg kfgLgk/df xNs df6df xNs l; Ff0}u/L j fnLnufp} /df]pdf/ xG . clg cdf of] cbj fnf0{leqLj fnlsf]?kdf cE, lnrL, ju}f leq ds}afnLleq ldl>t ; kdf klg nufpg ; lsG cdf . a9L cdfM P, leqLafnlsf]; kdf klg nufpg ldN5 eg]d klg To; }u/f} . clg afa' of] cbj f afnLslxn]tof/ xG t < h}P=M cbj f ahf/sf]dfu cg'; f/ ebf} kl5 g}lgsfNg ; lsG t/ afnL/df]l5lkP kl5 lng]xf]eg] dlz/ k'; df vGf /df] p}kfbg kfp g ; lsG . a9L cdfM nf}5f/f ch cbj f v}lsf]af/df w}} hfgsf/L kf0bf] ca hfG' klg . h}P=M x; \cdf cfp} ug{ xf}f

a9L cdfM xl/z/Ofd U

* nys, slif ; rgf tyf ; rf/ s}df /fk-t} -kf- kbdf sfo{t xgxG .