

# बीसवर्षे अवधारणा

## दिगो जीविका सुधारका लागि कृषि अनुसन्धान

(मिति २०५८।१०।२३ मा बसेको परिषदको अठारौं बैठकबाट पारित)



नेपाल कृषि अनुसन्धान परिषद  
२०५८

# kf\$syg

gkfn\$ \*! kl'tzt hgtfsf]hlj\$sfkfhg s[lifdf lge{ 5 . of]lfq /fi6sf]cy{Gqsfd]b08sf]?kdf /x\$]5 . blw\$fnlg s[lif of]hgn]bzf]cg?k laBdfg l:yltdf o; lfqn]cfly\$ j[4sf]0lGhgsf] ?kdf sfd ug{k\$5 eG]tYonf0{>l % sf]; /sf/n]:jlsf/ ul/; s\$]5 .

lautsf bzsb]v ePsf]qnds kq]tsf]km:j?k s[lif]qdf kq]tsf ; a\$]x? b]vPsf 5g\ pTkfbg j[4 ePsf]5 . lfqkmsf]la:tf/sf ; fy}pTkfbs]jdf ; d] clej[4 ePsf]5 . v]l ul/g]h]lufsf]7hf]efu Psn jfnl kQffnlaf6 ax]fnl kQffnldf kl/oft ePsf]5 / jfnlsf] ; 3gtf #)) kl'tzt ; Dd j[4 ePsf]5 . o; }u/L kmknh, t/sf/l tyf sltko gub]fnlsf] la:tf/af6 pTkfbg j[4df of]ubfg klG uPsf]5 . kl't Psf0 hldg Pj +hnl]qdf kz; k\$5 Pj + d]okfngsf]3gj]sf]j[4af6 hgtfnf0{cfj Zos df; ; bW, kmh tyf df5sf]pTkfbgdf j[4 ePsf]5 . o; af6 ; fdfG?kdf kf]f :t/df j[4 xg uPsf]5 . ; fy}gkfn\$ sltko s[lif]hG pB]f]x?nf0{o; }lfqaf6 sRrf kb]y{k]g pknAw ePsf]5 .

s[lif]qdf ul/g]laleG k\$]f/sf cg; Gwfgnf0{ ; do ; fk]f jg]f0{ ; #fng ug{gkfn s[lif cg; Gwfg kl/ifbsf] ; Argf / ; #7gdf kl/jtG ul/Psf]5 . kl/ifb\$] o; @) aif]cjwf/Offn] /fli6:t/df s[lif / s[lif; G cfjWb k]s[ts ; f] ; DaGwL cg; Gwfg k]l]btsf]kq]j]sf]l/tf xli; n ug{ ; #u7g]f]ds Pj +Aoj:yfkslo kl'df hf\$ lb0Psf]5 . ; xsd; ; fem]f/ / ; /f\$]f/jfnfx? ; # ldn] /fli6 :t/df sfd ug[k]k]qmf o; kl/jtG]sf]dVo clek]o /xg\$ . cfufdl lbgx?df s[lif cg; Gwfg, 1fg-lj1fg, klj]lw / ; 3g k]l'df cfw]l/t xb}hfg]xBf cGt/fli6 t]; Dj]Gw blftsf]pkoQm ; bkof]usf]kq]f; cfj Zos xg\$ . ; fy}cg; Gwfgstf\$]sfo{fdt]j[4sf nflu cg; Gwfg; DaGwL ; #yfx? / /fli6 z]f]s ; #yfx?alr lgs6:t ; DaGw sfod xg'cfj Zos 5 .

hg; Wofsf]cgj/t j[4, k]s[ts ; f]sf]lj]ubf]l:y]t,kof]f/Oflo kb]f]of, h]as lj]lj]wtfdf xli; af]l]bs ; DklQ ; /lfflwsf/ ; Dj]Gw cw/]1fg, vfB; /lffdf ; lldt kxF h:tf laifo dx]j]kQf{/ljrf/Oflo ; d:ofsf?kdf /x\$]5g\ . ol ; d:of ; dfwfgdf gkfn s[lif cg; Gwfg kl/ifb\]lgOff6s eldsf v]gkg\$ . o; sf]nflu kl/ifb\]klj]lw lj]sf; sf]lgldQ pkoQm cg; Gwfg kQffnl c]usf/ u/L b]z / b]z j]flx/sf lj]leG ; 3- ; yfx?sf]; fem]f/ldf k]j]wG u/L sfo{ ; #fng ug\$ .

k]t't cjwf/Offsf]tof/ldf of]ubfg k/afpg] /fli6 of]hgf cfof]usf dfgglo ; b:o >l xl/zs/ lqkf7L, s[lif tyf ; xsf/L dGqino Pj +gkfn s[lif cg; Gwfg kl/ifbsf kb]flwsf/lx? / cG6 ; #llg AolQmx?sf]d ; /fxgf ub\$' . kl/ifbsf] o; kq]f; n] s[lif cg; Gwfg kQffnlsf]lj]sf; nf0{ ; xllbzftkm]lg]b]6 ug{ ; xof]u ug\$ eG]d]h]cfzf /fv\$]5' . gkfnl hgtfsf]; fdf]hs tyf cfly\$ cj:yfnf0{p7fpg cfj Zos cg; Gwfgsf sfoQmd sfof]j]ogsf lglDt ; f] / ; fwg /fli6 Pj + cGt//fli6 :t/af6 h]fpg gkfn s[lif cg; Gwfg kl/ifb\; lfd xg\$ eG]laZj]f; u/\$]5' . gkfn\$] ; Gbe]f s[lif tyf ; Dj]Gwt k]s[ts ; f] cg; Gwfgnf0{cfj Zos ; xof]u k/afpg / bl3\$fnlg cjwf/Off af/\$]o; kl]t]qdf pNn]vt ; wf/fl]ds sf/j]x]sf nflu >l % sf]; /sf/ sl6a4 /x\$]5 . /Ofgl]t ; lxt tof/ ePsf]kl/ifb\$]o; cjwf/Offsf]; km sfof]j]ogsf]sfdg]ub\$' .

dx]z cfrfo{  
cl]b]f, gkfn s[lif cg; Gwfg kl/ifb\  
Pj +  
s[lif tyf ; xsf/L dGq]

## eldsf

sh hg; Wofsf] sl/j \*! kl'tzt hgtfnf0{ hljg lgjfx / /fhuf/sf] k|olf cj; / lbg] s[liflqñ]sh /fli6ø ufx{y ptkfbgdf cu0fl ofubfg lbb}cfPsf]5 . k|t't al; j if[cj wf/0ffn] j tdfg lgjfxdvl s[lif ptkfbg ; Argfnf0{cfwlgsls/0f tyf Joj; fols/0f tkm(pgdv u/fpg ; xofu ug]5 efg]d]f]lj Zjf; 5 .

bl3\$fnlg s[lif ofhgf]cj wf/0ffc?k s[liflqñf0{cu]flqsf]?kdf cufl8 j 9fpg klj lwsf] ljsf; tyf kfej sf/L k|f/ tyf kofun] dxTj k0f{eldsf vlg] ePsfn] s[lif cg; Gwfnf0{j 9L dxTj lb0Psf]xf]. efulhs ; DefJotfsf]cfwf/df cfj Zos ; f]-; fwg / ; ]fnf0{Psls[?kdf pknJw u/f0 s[liflqsf] ptkfbstj j [4 ug{/ o; lqñf0{Joj; fols/0f u/L bzs]ul/jL lgj f/0f, vfB ; /lff tyf cy{qsf]pRr cfly\$ j [4df cu]f lqsf]?kdf ljsf; ugdf al; j if] s[lif cg; Gwfgsf]cj wf/0ffn] dxTj k0f{eldsf vlg] efg]ck]ff /fli6ø ofhgf cfofun]u/\$f] 5 .

/fli6ø ofhgf cfofun] lnPsf] bl3\$fnlg ljsf; sf] cj wf/0ffc; f/ s[lif tyf k|s[ts ; f]- ; Dj GwL klj lwx? j hf/fgdv Joj : yfnf0{ j 9fj f lbg] vfnsf] xgkg] ; /sf/nf0{ ; xhsf/L / lgodgfids eldsf vlg ; 3fp xg]tyf s[lifnufotsf lqdf lghlqsf]eldsf clej [4 ug]t/ pgdv u/fpg]u/L tof/ kfl/Psf]al; j if[cj wf/0ff xfnsf]cj : yfdf ; do; fk]f /x\$]5 .

s[lif cg; Gwfg tyf k|s[ts ; f]- klj lw ljsf; sfonf0{glthfdhs Pj +ptkfbgdhs j gfg >l % sf]; /sf/n]kbfq\u/\$f]cfly\$ ; f]-sf]cltl/Qm c6o ; f]-x?sf]; d]- Joj : yf ug]hdsf] k|t't cj wf/0ffn]u/\$f]xof s[lif cg; Gwfgsf]kfej sfl/tf cema9g]d]lj Zjf; lnPsf]5' .

k|t't cj wf/0ffsf]; kmn sfonf]ogsf]nflu /fli6ø ofhgf cfofu cf^gf]eldsf lgjfxdf ; hu /xg]kl'tj 4tf JoQm ub]kl'tj dg tof/ kfg{; 3fp k%ofpg]; j }kl't cfef/ JoQm ub]cj wf/0ffsf] ; kmn sf]f]ogsf nflu gkfn s[lif cg; Gwfg kl/ifbkl't zesfdgf JoQm ub]5' .

xl/z\$/ lqkf7L  
; b:o, /fli6ø ofhgf cfofu

## b0{zJb

b7zsf] cfly\$ lj sf; Pj +hgtfsf] hllj s[kfhg]sf] dhe't cfwf/ s[lif g}/x\$]tYonf0{Wofgdf /fvl o; lqnf0{cfhsf]j blnb]kl/l:ylt cg?k kl/j t6 ub}nfgkg]cfj Zostf /x\$]5 . s[lif lj sf; sf] cleofgdf Pp6f dxlj kOf{c^nsf]?kdf /x\$]s[lif cg'; Gwfgsf]klfnf0{kl/j It\$ Pj + kl/dflht ub}n}hfg' ; f6ble\$ x65 . lj utdf s[lif lj sf; sf yk}k6Tgx? ePtfklg ck]ff cg?k ; kmntf xfl; n xg ; s6g\ . o; kl/k]fdf s[lif lj sf; sf nflu 7f] glttut cjwf/Off Pj + sfo6llt tof/ kfg{cTo6t}h?/L xg cfPsf]5 .

cfj lws /fli60 offhgfx? Pj +bl3\$fnlg s[lif glt (**Agricultural Perspective Plan**) n]lgl6 u/\$f kl/sNkgfx?nf0{cfwf/ dfgl tof/ kfl/Psf]k|tt cjwf/Offn]s[lif cg'; Gwfgsf] ; :yfut ; j?k Pj +bfo/fnf0{cem km/flsnf]j gf0{Pp6f k4ltsf]?kdf lj sf; ug]c7f6 lnPsf] 5 . o; jf6 gkfn s[lif cg'; Gwfg kl/ifbsf]; :yfut ; Argdf klg sxl kl/j t6 cf0{s[lif tyf kfs[ts ; ft; Dj Gwl cg'; Gwfg sfo6md sfo6j ogdf lj le6g klfx?nf0{ ; xeful jgfp] / cg'; Gwfgstf{Pj +; Dj Gwt lgsfox? ; fy}nllft ju]lr ; d6j osf] eldsf lgjfx ug]Pp6f zlif{y lgsfosf]?kdf kl/ifb\lj sl; t xb}hfg] ck]ff ug{ ; ls65 . o; jf6 kfyldstfdhs cg'; Gwfg sfo6mdx?sf ; fy}vfB ; /lff, ul/jl p6dhg, jftfj/Oflo ; Gthg, n6us ; dtfsf b[6n]pkoQm sfo6mdx?sf]; :fng / cg'; Gwfg tyf k|f/sf]c6t/; Dj Gwdf lj :tf/ xg hfg] cfzf klg ug{ ; ls65 .

o; cjwf/Offn]vfB ; /lff l:yltnf0{ ; b6 ug] ufldof :t/sf s[fsx?sf] cfocfhgdf j[4 Nofpg] tyf s[liflq]sf] lbuf] lj sf; ug] h:tf p27o k[llktsf] lbzdf dfubz6 k6fg u/L ljifout /Ofgllt Pj +sfo6lltsf] dfu{lgbl6 u/fpg ; 3fp k6ofpg] 5 . o; jf6 kl/ifbsf] j t6fg sfo6mdx?sf kl/j t6 cf0{ cg'; Gwfgsf] kfyldstf lgwf{Of, sfo6j og, hgziQm Pj + cfly\$ ; ft; kl/rfng h:tf sfo6? cem p[6 9^un]; Dk6g xg]lj Zj f; u/\$f]5' .

gkfn s[lif cg'; Gwfg kl/ifb gkfnl hgtfsf] cfly\$, ; fdfllhs l:yltdf ; wf/ Nofpg j 9L e6f j 9L ofubfg k6ofpg]; :yfsf]?kdf lj sl; t xb}hfg]s/fdf d lj Zj :t 5' .

k|tt cjwf/Offdf pNNy ePcg'; f/ sfg6l Joj :yf Pj +; wf/sf sfdsf/jfxldf ; xofu k6ofpg] s[lif tyf ; xsf/L d6qfno sl6j 4 /x\$]5 .

of]kl]tj 6g tof/ kfg{; m6g /x\$] ; j }nf0{w6oj fb lb65' .

/TgZj /nfn sfo:y  
; lrj  
s[lif tyf ; xsf/L d6qfno

## sl6j 4tf

gkfn s[if cg' Gwfg kl/ibf s[if cg' Gwfgsf nflu gkfnst]Ps zlif{y ; :yf xf]. ljZj sf] kl/j t6zln cfly\$, /fhg]ts Pj +k]lj lws klfcg?k gkfnst]s[if kl/dfhg]tkm(p6dv 5 . j tdfg ljZj Jofkls/Ofsf] kl/k]f vf; u/L ; f]t Pj +; fwgsf] ; femp/Ldf ljZj sf dh'sx? Pscfk; df cfj 4 Pj +ge{ 5g\ . s[if ; # ; Dj l6wt b0{k\$sf/sf k6v rgf]L 5g\ gkfnst] Pstkm[ s[iflfq]sf] lbuf] ljsf; af6 ul/jL lgjf/Of ug{ 5 eg] csf]tkm[ s[if lfq]sf] Aofj ; flos/Ofsf]kZg 5 . gkfnst] ; Gbedf vf; u/L ; ; fgf s[fs ; # ; Dj l6wt v]l k0ffnlsf] ; kmntdf :ki6 bl[6af]w xg' cToft cfjZos 5 .

gkfnst] ufdlOf hghljgsf] ; fdf]hs-cfly\$ ; d6g]tsf] nflu s[iflfq]df j]flgs k4]tsf] ; dlrt pko]u ug{Ps dVo pko xf]. k]tt' cjwf/Off axcfoldf / jxk4]tdf cfwf]/t /x\$] 5 . o; df k0ff]Lof t]/sf (Holistic approach) / ; fwgsf] k6fj sf/L pko]unf0{ cfwf/ jgfOPsf] 5 . o; n] bl3\$fnlg s[if of]hg]sf] p2]o xfl; n ug{ ; Dj l6wt ; a]f0{ kyk]z6 ug\$ . o; cjwf/Of cgsh sfo{?sf] ; kmntfk] \$ sfof]og ul/Pdf ul/jL lgjf/Ofdf / hgtfsf] k]6s cxf]/f :t/df j[4 ug{ d2t ldNg\$ . ; fy} Joj; fols/Of (commercialization) / lalzi6ls/Of (specialization) sf]ultnf0{ ; d] o; af6 lta]f ldNg\$ . k]s[ts ; f]sf]ljgfzsf]qmd /f\$g kl/ o; j f6 of]ubfg klNg\$ .

k]tt' bl3\$fnlg al; aif]cjwf/Ofn] gkfn s[if cg' Gwfg kl/ibf0{ gkfnst] s[if k4]tsf pko]m kl]lw ljsf; sf nflu cfjZos gl]tsf] th]f / cg' Gwfg sfo]md lgwf]Of a9L lqmfzln xg cfx]fg u/\$]5 . ; /sf/L u}; /sf/L tyf k]1s ; :yfsf laleg blf Pj +cge]l JolQm?; E]sf]k6s k6ssf]5nkm / c6t/lqmf]sf]km:j?k k]tt' kl]tj]og tof/ ePsf]5 . of]kl]tj]og tof/Ldf kl/ibsf] cl]bf tyf dfgglo s[if tyf ; xsf/L d6ql >L dxz cfrfo]o"/ k] {s[if d6qlHox?j f6 7hf]k]7off k]kt ePsf] 5 . s[if tyf ; xsf/L d6qno / c6tu]sf laefu Pj +hgsfox?af6 axdNo ; emp]x? pknAw ePsf 5g\ . To; }u/L kl/ibsf] j]flgsx?, s[if cg' Gwfg tyf k]f/ cf]of]hg]f, u}; /sf/L ; :yfx? / ljleg JolQm?af6 ; d] ; emp] pknAw ePsf 5g\ . kl]tj]og tof/Lsf] l; nl; nfd ; #fng ul/Psf sfo]zfnf uf]7L Pj + c6t/lso]sf a]sx?af6 axdNo /rg]tds ; emp]x? k]kt ePsf 5g\

k]tt' cjwf/Off gkfnst]s[if tyf k]s[ts ; f]t; Da6wL cg' Gwfg k4]tsf]lj sf; df ; xfosl; 4 xg]s]/df d cfzj fbl 5' . o; j f6 hgtfsf]hl]j sdf dx]j k0f{kl/j t6 Nofpg ; xof]u kl]g]/ s[ifsf]p6glt / ljsf; snflu c6t]/s Pj +jfx6 ; /sf/L tyf u}; /sf/L ; :yfx?sf] ; m]gtfdf clej[4 ug]jftfj/Ofsf]l; h6f xg]s]/df kl/ d ljZj:t 5' . ; Dal6wt ; /f\$]/jfnf x?nf0{ cf-cf^gf] tkm]6 s[if tyf ; Dal6wt k]s[ts ; f]t' cg' Gwfgdf ; l/s u/fpg] lbzdfdf o; cjwf/Off pko]ul e0{ o; j f6 s[if k0ffnldf lgk0ftf / k]s[ts ; f]sf] lbuf] Aoj :yfkgsf] l; h6f xg]ck]ff ul/Psf]5 .  
cjwf/Ofsf]tof/Ldf ; m]ug ; j}kl]t d xflb\$ cfef/ k\$6 ub5' .

/3bfy k] fb ; fksf6f  
sf-d= sfo\$]/L lgb]z s  
gkfn s[if cg' Gwfg kl/ibf

# laifo ; ʻl

kf\$syg  
e!dsf  
b0{zJb  
sl6j 4tf

; f/fz

\*

!=	kl/ro	!)
@=	; wf/sf]cfj Zostf	!)
#=	; fgwle\$ k\$/Ofx?	!@
#=!	lj Zj Jofkls/Of MPs rgf}l	!@
#=@=	s[if Mlj sf; sf]dh	!#
\$=	lj Bdfg /Ofgllts lj ifox?	!\$
\$=!	/fli60 glltx?	!\$
\$=@	cg; Gwfg sfof]nl	!\$
\$=#	klj lw x:tfGt/Of	!\$
\$=\$	; :yf-laifout tyf rgf}lx?	!%
\$=%	ul/jL, ; dfgtf Pj n}Es ; /f\$ / laifos ; ofhg	!%
\$=^	lbuf]j ftfj /Oflo l:ylt	!^
\$=&	s[if Joj ; fols/Of	!^
\$=*	lj lj w cfly\$ ; xofu ; ft	!^
%=	elj iosf]b[6sf] / sfof]wsf/	!&
%=!	g]kfn s[if cg; Gwfg kl/ifbsf]eldsf	!&
%=@	kl/jlt\$ ; :yfut ; Argf	!*
%=#	lhDd]f/L	!*
%=\$	lj Bdfg kl/ifbsf]cfGtl/s ; wf/	!(
%=\$=!	cGtl/d Joj :yf	!(
%=\$=@	bl3sfnlG Joj :yf	@)
^=	kl/ifbsf]/Ofgllts cg; Gwfg glltsf]?k/}f	@)
^=!	dfukz\$ l; 4fgtx?	@)
^=!!	; :yfx?	@)
^=!=@	lf0lo cg; Gwfg	@!
^=!=#	cfwf/e't, Joj xfl/s Pj u}fx0 cg; Gwfg	@@
^!=-\$	cg; Gwfg tyf k] f/sf]cGt/; DaGw lj :tf/	@@
^!=-%	; xsfl/tf tyf ; dembf/L	@@
^!=^	hgzlQm lj sf;	@@
^!=&	lj z}f Wofg	@#
^=@	vf; /Ofgllt	@#
^=@!	la1fg Pj -klj lw k4ltsf]kj wG .	@#
^=@=@	bft[ :yfsf]; xofu tyf ; xofu kl/ofhgfx?	@#
^=@=#	cg; Gwfg sfomdf kfyldstf lgwf}Of	@#

^@=\$	:j bžl 1fg / :yfglo ; fwgsf]; bkofŭ	@\$
^@=%	j žfgut ; f[tx?sf]Joj :yfkq / lj sf;	@\$
^@=^	hŭj s klj lwsf]lj sf;	@\$
^@=&	kžfŭg / dxTj clej [4	@\$
^@=*	; ŕgf Pj k\$řzg	@%
^@=(	/fli60 s[if cg; ņwfg / lj sf; glltdf ofŭbfg	@%
^@=!)	klj lw ; bkofŭ / cfo; f[řsf]l; hŭf	@%
&=	; f[řsf]cfj Zostf	@%
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al; aif{cj wf/Off  
lbuf] hllj sf ; wf/sf nflu  
s[if cg'; Gwfg

; f/fz

/fli60 cfj Zostf Pj +kfyldstfsf cfwf/df s[if Pj +; Dj Gwt kfs[ts ; ft (agricultural and related natural resources ) cg'; Gwfgnf0{; dli6ut?k (holistic) df ; #fng ug[ o; al; j if{ cj wf/Offsf] dh p27o /x\$] 5 . ; fy} cg'; Gwfgstf]v ; /f\$]j fnf?; Ddsf] km/flsnf] bfo/df /x\$] blf hgziQm Pj +cfly\$ ; ft] sf] kl/rfngdf ; d] o; af6 d2t kllg hfg\$ . o; n]gkfnf]; Gbedf s[if tyf ; DalGwt kfs[ts ; ft] cg'; Gwfgnf0{glthfhdhs Pj + ptkfbgdhs tNofpg cfj Zos ; #yfut kl/j tgnf0{ klxNofPsf] 5 . o; cg?k, s[if tyf kfs[ts ; ft ; DalGwt cg'; Gwfgsf cfufdl sfoqndx?sf] kfyldstf lgwf{Of, cfly\$ ; fwgsf] ljlgof]hg Pj +hgziQm kl/rfng / cgludg Pj +kefj dNof]g o; }/Ofgllt Pj +gbs l; 4f6t cg?k xg\$ .

k|tt blw\$fnlg cj wf/Off Pj +/Ofglltn] s[if Pj +; DalGwt kfs[ts ; ft ; DalGw j] flgs 1fgsf] kefj sf/L tyf ; lfd pkof]af6 ul/jl lgj f/Ofsf] dxfcleofgdf ; xof]u k'ofpg nlo lnPsf] 5 . s[if tyf ; DalGwt kfs[ts ; ft] cg'; Gwfgsf kdvtfdf kfyldstfk]t Affnl, Affuj fgl, kz'; dNo Pj +ahf/ lj Zn]fOf, v]ldf hn pkof]u Joj :yfk, s[if-jg, n]es laifo / gllt; DaGwl cg'; Gwfg /x\$] 5g \

b]zleqsf] cfj Zostf kl/kl't{ ug{ l5d\$] dh\$ Pj +c6t/fli60 s[if cg'; Gwfg ; #yfx?af6 clwstd?kdf cg'; Gwfgsf glthf pknAw ul/g\$ . o:tf cg'; Gwfgsf glthfnf0{ b]zsf] cfj Zostf cg?k kl/dfhg u/L pRrQd pkof]usf nflu /fli60 lfdtdf clej [4 ul/g\$ .

lj Zj Jofkl cfly\$ pbf/ls/Of / lj Zj Jofkf/ ; 3 (World Trade Organization) df gkfn]kj] z ug]gof+r]gf]l / cj ; /x? h6dfPsf] 5 . o; k] udf lj leGg b]z; # ePsf] xfd] ; Dj Gwnf0{ ; d] b]6ut u/L j hf/ Joj :yfkgnufot c6o lfd]df klg cg'; Gwfg sfo{ ; #fng ul/g] 5 .

; /sf/sf]eldsf sfoqnd sfof] ogstf\$] ; \$f lgodgstf{ / ; xhstf\$] ?kdf p6dv e}x\$] kl/k]fdf u} ; /sf/L lfd]nf0{s[if cg'; G3fgdf ; xeful u/fpg cem j 9l k] ; flxt ul/g\$ .

/fli60 :t/df kydtM cg'; Gwfg ; Dj Gwl gllt lgwf{Of Pj +; dgj og ug] tyf ; f] sf] sfof] og ug] lgsfos?sf] sfo]t / ; #7gf]ds klfd cnu cnu ; #7gf]ds Joj :yf ul/g\$ . gkfn s[if cg'; Gwfg kl/ifb\ (Nepal Agricultural Research Council) (NARC) nf0{/fli60 :t/df gllt lgdf] tyf ; dgj o ug] lgsfosf] ?kdf :yflkt ul/g] 5 eg] csf]t/ cg'; Gwfg sfof] og ug] sfd gkfn s[if cg'; Gwfg sfo\$] / ; ldt (Nepal Agriculture Research Executive Board) (NAREB) sf] xg\$ .

s[if cg'; Gwfgdf u} ; /sf/L lfd]sf] ; xeflutf clej [4 ug{ :yfkf ul/Psf] /fli60 s[if cg'; Gwfg tyf lj sf; sf]f (National Agricultural Research and Development Fund) (NARDF) sf] cj wf/Off cg'; f/ gkfn s[if cg'; Gwfg kl/ifb\$] kl't:kwf]ds cg'; Gwfg cgbfg sfoqnd ; #fng xg\$ . kl't:kwf]ds cg'; Gwfg sfoqnddf NARC Policy

Body nf0{ j 9l kēfj sf/l u/fpg NARDF / NARC n]; θ0m ?kdf sfd ug5 . klxrfg ul/Psf cfwf/e't tyf dVo dVo cg'; Gwfg (basic and core research) sfo{sf]nflu /sd pknAw u/f0g]5 .

kl/ifbn]k]to\$ % aif0f o; cj wf/0ffsf]; dLlf u/fpg5 / o:tf]; dLffsf]l; knfl/; sf]cfwf/df cfj Zostfcg?k /0fgllt tyf sfo{ #fng lj lwdf ; d] pko0m kl/j tē / kl/dfhg ul/g 5 .

ljleGg lj sf; If0x?sf] s[if kfl/l:ysl (agro-ecology), ;fdlhs cfly\$ cj:yf tyf cg'; Gwfgdf ; #lg ; #yfx?sf]lj lj wtf tyf cg'; Gwfgsf]cfj Zostfnf0{Wofgdf /fvl kl/ifbn] :yfglj zif s[if tyf ; DalGwt k]s[ts ; f] cg'; Gwfg sfo{mdsf]lj sf; df hf\$ lbg5 . If0lo k]lj lws sfo{dx (Regional Technical Working Group)(RTWG) / /fli60 k]lj lws sfo{dx, (National Technical Working Group)(NTWG) h:tf sfo{mdnf0{cfj Zostfcg'f/ kl/dfhg u/l k]l; flxt ul/g] 5 . axlj ifos, ax]fnl Pj + a:tx?df ; xeflutfdhs cg'; Gwfg k4ltdf klg hf\$ lb0g]5 .

ul/al lgj f/0fdf ; sf/fTds of]ubfg k?ofpg] jftfj /0fdf lbuf]kgf cfpg] n]us ; dtf, pTkfbg j [4 / cfoj [4 h:tf cg'; Gwfg sfo{laz]fttsf] ?kdf /xg5 . :yfglo 1fg, k/Dk/fut tl/sf / :yfglo ; f]x?nf0{kl/ifbn] cg'; Gwfg / klj lw lj sf; sfo{sf]nflu pko]udf Nofpg] 5 . To; u/l pknAw :yfglo ; f]x? h:t}df6f] laplahg / :yfglo 1fg, klj lw tyf ; lxx? ; d]df cfwf/t Psls[ jfnl Joj:yfkg -Integrated Crop Management), Plss[ k]f]st]j Joj:yfkg (Integrated Nutrient Management) / Psls[ zqhlj Joj:yfkg (Integrated Pest Management) h:tf sfo{mdx?nf0{plrt?kdf pTkfbs]j / lfdtf j [4sf]nflu kof] ul/g]5 .

kl/ifbn]vfBf0o tyf gub]fnl, t/sf/l tyf kmknh, kz' tyf df5f ; DaGwl pTkfbgfk/f6t (post-harvest) klj lw Pj +kz]wgsf cj ; /x?sf] lj sf; u/l dNo clej [4 xg] vfnf cg'; Gwfgnf0{a9j f lb0{ s[if tyf ; DalGwt k]s[ts ; f]sf lj lj w If0df Joj ; fols/0fsf] kjwug ug5 . o; sf ; fy} s[if ; fdulx? pTkfbg ug]pBf], s[if cf]f/, l; #f0{; fwg / zqhlj gfzs lj iff]b tyf kz' k5]sf /f] lgj f/s cf]fwl laqm]f h:tf ; j] k]fkg ug] Joj ; folx?sf nflu cfj Zos klj lw Pj #lgsf ; d:of ; dfwfgk]t klg kl/ifbn]Wofg lbg5 .

s[if tyf k]s[ts ; f] cg'; Gwfg ug]lgsfox?sf nflu dfgjlo ; f]x?sf] lj sf; ul/g] 5 . o; df of]o tyf cgejl sdf/l]sf] lgo]m tyf kb:yfkg, k]lj lws clws[ x?nf0{ ; j]fsfnlg tflnd, lj Zj laBfno; f]sf] ; DaGwdf cg'; Gwfg cfwf/t z]f]s tflnd, j] flgs tyf k]lj lws ; #sf/sf] lj sf; h:tf sfo{x? /xg5g\ s[if cg'; Gwfgdf ; #lg j] flgsx?nf0{ j [0 lj sf; sf] nflu pko0m jftfj /0fsf]l; h6f ul/g]5 .

al; aif{cj wf/Off  
lbuf]hllj sf ; wf/sf nflu  
s[if cg'; Gwfg

!= kl/ro (Introduction)

lj utdf gkfnf s[if tyf ; DalGwt kfs[ts ; f] cg'; Gwfg dVotof laifout jf pk-laifout (sectoral or sub-sectoral) b[6sf]af6 xg]u/}f]lyof]. t/ o:tf cg'; Gwfgx?df ; Da4tf (coherence) tyf ; du}f (holistic) sf] cej sf ; fy} /fli60 cfj Zostf (national approach) cg?k lyPg .

s[if cg'; Gwfgdf u} ; /sf/L If]sf] eldsf ; lldt dfqdf /x}f] lyof]. ; /sf/L If]af6 ul/g] cg'; Gwfgsfo{ k]o ; /sf/L ; f]x?df dfq lge{ xg] uYof]. o; kl/k]fdf cg'; Gwfg lfdtdf ; wf/ / klj lwsf] lj sf; tyf pkof] ug{s[if Pj +; DalGwt kfs[ts ; f] (Agriculture and Related Natural Resources) (ANR) cg'; Gwfg /ofgltsf]cfj Zostf Jofks?kdf cgej ul/of]. k]tt al; aif{cj wf/Offnf0{ ; ; #fng u/L nllft p2]o xf; ln ug{o; n] /fli60 tj/jf6 nllft cfj Zostfx? / Itgsf] kfyldstfnf0{ /fd/L ; d}f] xg' k5{ . ; fy} o; cj wf/Offn] Jofks ?kn] ; /f}f/jfnf / cg'; Gwfg ; xof]ul ; #yfx?, hgziQm / cfly\$ ; f]nf0{ tt&g' f/ dhwf/df Nofpg]nlo lnPsf]5 .

s[if tyf ; DalGwt kfs[ts ; f] cg'; Gwfgsf nflu lgld{ of] cj wf/Offn] lautdf xfl; n ul/Psf] cgej vf; u/L ; jfoQ ; #yfsf] ?kdf @) \$\* ; fndf gkfn s[if cg'; Gwfg kl/ib}sf] :ykgf ePk]5sf]bzssf]/ s[if tyf ; DalGwt kfs[ts ; f] cg'; Gwfgnf0{k}f] t kfg] /fli60 tyf c]t//fli60 kl/j t}sf] k] unf0{ ; d}f] 5 . o; df ; dliout /fli60 cg'; Gwfg k4]tsf] b[6sf] tyf kfyldstfk]t sfo{ If]x?nf0{ ; dfj } u/}f] 5 . /fli60 s[if tyf ; DalGwt kfs[ts ; f] cg'; Gwfg k4]tnf0{vf; u/L ; d:ofdf cfwfl/t / j9l pkn]awdhs agfpgsf] nflu cfj Zos Gogtd ; #yfut kl/j t}sf] s/f pNny ul/Psf]5 . o; n] b}df nfu' ul/Psf] bl3\$fnlg s[if of]hg (Agriculture Perspective Plan) (APP) tyf ljifo / pk lj ifout of]hgdf gjf}of]hgdf cfwfl/t s[if tyf kfs[ts ; f] cg'; Gwfgdf ; #Ug ; DkOf{ ; 3, ; #yf / ; /f}f/jfnfx?sf] nflu tyf cg'; Gwfg /ofglit dfu{bz\$ l; 4f]t k}fg ub\$ . bzf} of]hg cfj lwnf0{ ; d] ; d}g] u/L cfudl @) aif\$] nflu Pp6f k}v ; /sf/L lgsfosf] ?kdf /x}f] gkfn s[if cg'; Gwfg kl/ib}sf sfo{x? o; cj wf/Off cg'; f/ cfwfl/t xg]g\ . efjL s[if tyf ; DalGwt kfs[ts ; f] ; DalGw cg'; Gwfgsfo\$] kfyldstf lgwflOf, cfly\$ Pj +dfgj lo ; #fwgsf] ljlgof]hg, cgudg tyf dNof]g h:tf dx]j kOf{ sfo{x? o; /ofglit / lgb}z s l; 4f]t ; # ldNbf]hNbf]xg\$ .

@= ; wf/sf] cfj Zostf (Need for changes)

; g\!(^% ; Dd lj leG hftsf afnl, kz'-k5L, kmknh, cfn; t/sf/Lx?sf]kl/ro]ds kl/lfof u/L b} leq}fpg] sfddf g} s[if cg'; Gwfg ; lldt /x}f] lyof]. b}df s[if cg'; Gwfgsf k] f}f/ tof/ ug] l; nl; nfd o; tfsf lj leG :yfgdf kmf{ tyf :6}g :ykgf / blf hgziQmsf] lj sf; df g}a9l hf} lbOPsf] lyof]. nuQ}; g\!( () ; Dddf laleG afnl, a:t' tyf laifo lj z]f cg'; Gwfg ug] lgsfox? ; #flnt e0{s[ifdf b}yf k/}f ; d:ofx? ; dfwfg tkm{cu} / /x}f]. o; }bf}fgdf s[if ; # ; DalGwt ; #yfx? / hgziQm lj sf; sf sfo{x? klg cl3 j 9b}uP . laifout Pj +pk-laifout sltko blw\$fnlg

of]hgfx? klg thdf ul/P / ; dofg; f/ sfo\$zntf xfl; n ug{k6s k6s ; :yfut Joj :yfdf ; d] kl/j t6 ul/of].

; g\!(\*) tfsf g}:j zfl; t cg; Gwfg ; :yfsf]cfj Zostf cgej ul/P cg?k s[if laefu / kz; Jf laefu c6t6tsf cg; Gwfgsf Psf0{x?nf0{ ; dfaž u/L ; g\!(\*& df /fli60 s[if cg; Gwfg tyf ; Jf s[ib] (National Agricultural Research and Service Centre) :yfkf ul/of] hg snf6t/df gkfn s[if cg; Gwfg kl/ifb\p6 @)\$\* af/f :yflkt atdfg kl/ifb\$] k?k xg uof]. s[if cg; Gwfgsf] l] sf; sf] qmddf pNnYo pknAwx? xfl; n ePsf 5g\ o; sddf sltko vB tyf gubafnlsf p6gt hftsf]k/Lifof Pj +adrf]g ePsf]5 eg] kz-k6lsf p6gt gZnx? l; kmf/; ul/Psf 5g\ . afnl tyf kz-k6lsf] /f], sl/fsf] k\$fk lgo6of ug]h:tf sfo6f dxTj k0f{k6B\$]df]Psf]5 . o; 6l/, afnl Pj +kz\$]k]f]f0f, df6f\$] pa{fzlQm ; aw6, 3fF tyf r/g Pj +v]l k0ffnldf ; d] pNnYo k6lt xfl; n ePsf]5 . lautsf cg; Gwfgdf ul/Psf] nufglsf] km:j?k uxdf &%-\$Ü /, wfg, ux;+ ds} u/L ; dli6?kdf #-\$-^\*Ü pRr kltkmb/ k]kt ePsf]pknAw tyof]n]k6f]0ft u/\$]5 .

tyflk, ol pknAwsf afj hb klg laBdfg s[if]f]sf] lfdtf cg?k ; #f]fk6 :t/df pTkfbg j [4 xg ; s\$]56 . bžsf]l]ljw ; fdf]hs, cfly\$ Pj +hnjfo' cgsh tyf s[if]cfj Zostfdf cfwfl/t gof+klj lwn]pTkfbg lbg ; Sg] lfdtf / jf:tl]s pTkfbg jlr 7hf]vf8n lj Bdfg g} 5 .

gkfn\$] kl/k]fdf s[if cg; Gwfgsf] lautsf] 0ltxf; nf0{x6f{ tT; Dalwt klj lw l]sf; tyf la:tf/ k]s6f ; /sf/L lf6x?j f6 dfq ; #flnt /x6f]. s[if cg; Gwfgdf u} ; /sf/L tyf lghLlf6sf ; efo{of]ubfg af/] uDel/tfsf; fy lj rf/ ul/Pg . a\$Nks ; :yfx?sf] cefj g} o:tf]x6sf]cf]Zs sf/of b]vof]eg]csf]tkm{ ; /sf/ g}klj lw l]sf; sf]lhDd] f/ ; :yf xf]e6g] plxn]b]v r]ncfPsf]df6otfn]ubf{k]g cg; Gwfg lf6df of]ubfg k6ofpg ; Sg] ; Def]o u} ; /sf/L lgsfox?n]to; tkm{hf/ rnfpg k]f] ; flxt x6]j ftj /of g}ePg .

laut sxl aif6tf b]v o ; ; 6edf lgs}kl/j t6 cfPsf]5 . kl/ifb\$ c]tl/Qm ; lfd c6o cg; Gwfg lgsfox?sf] ; W6df j [4 ePsf]5 . o; df u} ; /sf/L tyf lghL ; :yfsf] ; fy} k]s[ts ; f] ; Dalwdf cg; Gwfg ug]lj Zj laBfnosf ; sfox? kb5g\ o; sf c]tl/Qm cfly\$ pbf/ls/0fsf] kl/0ffd ; j?k ; /sf/sf] eldsfnf0{ sfof]ogstf\$] ; \$f kj w\$, ; xhstf{ / lgodgstf\$]kdf kl/eflft ul/b5 . of]k\$/of c6o cfly\$ / ; fdf]hs lf6x?df h:t}s[if cg; Gwfgdf klg plQs}nfu'x65 .

/fli60 :t/sf] gllt lgdf6f tyf s[if Pj +; Dalwt k]s[ts ; f] cg; Gwfgnf0{ pTyfg ug] pQ/bf]o]j lnPsf]dh ; :yfn] ; /sf/L tyf u} ; /sf/L ; Dk0f{cg; Gwfgstf{x?sf] eldsfnf0{ df6otf lbg\$ ; fy}ltglx?sf]kj w6df 6]f k6fpg ; Sgkb5 . s[if tyf ; Dalwt k]s[ts ; f] cg; Gwfgsf]flu u} ; /sf/L Pj +gllhlf6df sfo{la:tf/ e}x\$]cj ; /x?nf0{axQ/ ; fdf]hs lxtdf pkof] u/f0g' cfj Zos 5 . ha; Dd gkfn s[if cg; Gwfg kl/ifb\$ sf6] lw laut em} oyfjt /x65gV gllt lgdf6f tyf s[if cg; Gwfg sfof]og klfd :jod nflu /x65 ta; Dd o; n]cfknhf0{Pp6f ultzln Pj +klt:kwl{ ; :yfsf]?kdf lasl; t ug{ ; Sb6 . / kmmtM o:tf] l:y]tdf kl/ifbdf lautsf sfof]ogstf\$] k6/fa[tx6]l:ylt dfq /x65 .

o; cjwf/0ffsf]dxn % df pNnYul/Psf]glltlgdf6f stf{tyf ; d6j o stf\$]kdf k}tflj t /fli60 zlif{lgsfon]lal]w /fli60 tyf c6t/fli60 :t/af6 cfj Zos cfly\$ Pj +; Djlgwt ; f]x? ; \$ng u/L lghL tyf u} ; /sf/L ; :yf Pj +c6o cg; Gwfgstf{x?nf0{k]lalw l]sf; /

klj lw x:tfGt/0fsf nflu pknAw u/fpg]Joxf7f k|tt ul/Psf]5 . s[if tyf ; DalGwt kfs[ts ; f[ cg' Gwfg tyf ljsf; ; bedf ; mlg ljleGg lzlf0f ; yfx?, u} ; /sf/L Pj +lghl ; yfx?df cfjZos dfgjlo ; zfwg, cfly\$ tyf klj lws lfdtdf j [4 k\$/Of ykl /fi6sf] ; du|s[if cg' Gwfg kj4gdf of]/fli60 zlif{; yf nflu/xg]5 . jxhg lxt; u ; /f\$/ ePsf s[if cg' Gwfgdf cf# gkgU/L cg' Gwfgsf lj zif klfx?nf0{lghls/Of tkm{cu} / kfg{vf; klspsf]lj sf; ul/g]5 .

## #= ; fGble\$ k\$/Ofx? (The context)

xfnsf aifx?df s[if cg' Gwfg; E k|olf jf ck|olf?kdf ; DalGwt /fli60 Pj +cGt/fli60 k[6elddf Aofks kl/j tG cfPsf]5 . o; kl/k]odf xdf] bZ ; u ; f[m] ; /f\$/ /Vg] sXl ; fGble\$ larf/Oflo laifox?nf0{tn k|tt ul/Psf]5 .

## #=! ljZj Jofkls/Of M Ps r'gf]l (Globalisation: a challenge)

ljZj sf kFl tyf cfly\$ ahf/x? a[0/?kdf PsIs[ e}x\$ 5g\ ol ahf/x?; E[sf]g[kfnsf] ; DaGw / oxfEsf] dflb\$ tyf cfly\$ Ifq? lg/Gt/?kdf ; mlg xb}u}x\$ 5g\ . km:j?k g[kfndf labZl nufglsf gofFcj ; /x? ; hgf e}/x\$ 5g\ . xgt o; n] lautdf Pl; ofsf laleGg bZx?df pTkGg u/fPsf]cfly\$ ; d:ofx? h:t}g[kfnsf]cy{Gqnf0{klg keflij t kfg{ ; Sb5 . vf; u/L ef/t; E[sf] ; DaGw xdf] nful cem a9L dxTj kOf{5 / ef/tdf xg] cfly\$ kl/j tGsf]c; / g[kfndf t?Gt cgej ul/G5 . vNnf ; ldf ePsf]sf/Of ; ldfsf]ba}km\$ s[fs Pj +s[if pBdlnf0{lb0g]cgbfgsf]:t/ tyf cGo ; xofun] ; ldfj tl{ahf/df kl:t:kwf\$]l:ylt lgwf{Of ub\$ . 7h7hf cy{Gq ePsf l5d\$ dh\$df sf]alrdf cj:l:yt ; fg]cy{Gq ePsf sf/Of ; ldfkl/sf ; /sf/L cgbfg, ; xofun, klj lws ljsf; / ahf/ kxFdf xg] ljsf; sf] ; fkl]fs leGgtfn]ubf{to:tf cy{Gq; u kl:t:kwf{ug{; lhnf]xb\$ . t/ pknAw ahf/ls/Ofn] s[fs ; dbfosf nflu lxts/ cj ; /x? pknAw xg ; Sg]l:ylt dh\$df gePsf]rflx-xf0G .

xfnsf]Jofkf/ pbf/ls/Ofn]g[kfnsf]cfly\$ tyf lj Qlo cj:yfdf 7hf]kl/j tG NofPsf]5 . s[if ; fdulx?sf]cfkl'tdf lghlIfqnf0{; xeful u/f0Psf]5 . s[if ; fdul tyf pTkfbgdf j [4 Nofpg] cGo ljifo j :tx?df ; /sf/L cgbfg lgs}36f0Psf]5 / sXldf kOf?kn}x6f0; lPsf]klg 5 . o:tf]cj:yfdf ; j bZdf pTkfbg ePsf vfB j:t' tyf ; DalGwt cGo dfn ; fdgx? / ljZj j hf/jf6 cfpg] tI; fdulx? g[kfnsf]j hf/df kl:t:kbf{ug{kg]l:ylt l; hgf xG5 . t/ s[if a:t\$ dNox? :yfglo pTkfbg nfutaf6 dfq geP/ ljZj ahf/sf]dNo ; d]af6 keflij t xg] :ki6 5 . To; sf/Of s[ifIfqnf0{o; n]cem a9L kl:t:kwf{ds xg]bafj l; hgf u/\$f]5 . kmTm s[if pTkfbgdf kofun xg] s[if ; fdulx?sf] szntfk}\$ pkofun (efficient use) xgkg] l:ylt cfPsf]5 . o:tf]l:ytdf gof+klj lwj f6 l5d\$ dh\$df pTkfbg ePsf s[ifhGo j:tx? g[kfnsf]j hf/df cfoft xbf ; j bZl s[ifhGo kbfx?df tIsfn kefj kfg]tYo ; j {lj lbt}5 . tyflk ljZj Jofkls/Ofn] 1fg tyf klj lwsf gofFcj ; /x?nf0{ phfu/ u/\$f]5 . o:tf cj ; /x?df cGt/fli60 s[if s[ibx? nufot lghl Ifqnf] tof/ kf/\$f ; fGble\$ tyf dxTj kOf{ klj lws ; r'gf lglxt xG5g\ ; fy}lj zif dxTj kOf{?kn}cfly\$ ; f[ sf lj lw dhx? klg ; lrt kf/\$f]xG5 . g[kfnn]o:tf gofFcj ; /x?nf0{/fli60lxtdf clwstd pkofun ; fwg tyf ; eGqs] klxrfg ug{ Sg]lfdtfsf]clej [4 ug{cfj Zos 5 .

; Dej tM sXl ; do kl5 g[kfn ljZj Jofkf/ ; \$sf]; b:o jGg\$ . To; kl5 bZn]pQm ; \$ af/f lgwf/t :t/ tyf sfo]lw nfu' ug{ ; lfd xgkg]5 . o; sf nflu cfj Zos tof/Lsf ; fy} ljZj ahf/df cf'gf]Jofkf/nf0{kefj sf/l agfpg bZdf cfj Zos lfdtfx? lj sf; ug{kg\$ .

laut bzs b]vg}lj Zje/L ; Rgf klj lwsf]lj :tf/ tlj |?kdf e}x\$]5 . g]kfnsf j }flgsx?n] klg clwofj lws hfgsf/Lx? ; lhnf] ; u k]kt ug{ ; Sg] ePsf 5g\ . ; xsdl{ Pj +; Dj lGwt\ ; :yfx?sf] alr laB'tlo dflwda6 sd ; dodf cfj Zos ; Rgf cfbfg kbfg ug{ ; Dej ePsf] 5 . o; n] ; xsfo{ (collaboration) sfof] ogsf cj ; /x?df ; xhtf NofPsf] 5 . o; af6 ; dfhnf0{ahf/ , cfkl't{/ l5d\$] dh\$df e0/x\$] sfomd af/df klg ; ; lrt u/fg ; Sg] cj ; / pknAw ePsf]5 .

afnl tyf kz' ; Af0f; DalGw /f; folgs kbfy{/ pGgt lapm lahgx? pTkfbg tyf Jofkf/ ug] sDkglx? klg lj Zj Jofkl?kdf ; u7t e}x\$] 5g\ g]kfndf lghl sDkglx? s]if tyf ; DalGwt k]s]ts ; f] lq]x?df kj z ug{yfn/x\$] 5g\ . lautdf o; lq]df ; /sf/L ; :yfx?sf] dfq cflwkTo /xcPsf] lyof] . cg' Gwfgaf6 l; kmf/ ; ul/g] pGgt lj pm kmh, j lo{ Pj +e0f (embryo) tyf pGgt klj lw laz]f u/L labz]l sDkglx? dfkm] lghl lq]af6 klg pknAw e}x\$] 5 . clxn\$] o:tf] kl/j l't] l:yltdf ; /sf/L ; :yfx? cf'gf] gofFeldsfsf] v]hl ug{ aflw ePsf 5g\ o:tf] kl/l:yltdf af]4s ; DklQsf] clwsf/ (intellectual property right) dxTj k0f{ laifo xg\$, vf; u/L lj pm kmh, e0f, h:tf a:tx? pTkfbg ; DalGw cg' Gwfg tyf ltgsf] lj sf; df lghl lq]sf] nufgl j f:tj df j [4 e}x\$] 5 . km:j?k ahf/df pNn]vt ; fdulx?sf] kj fx lgo]qt e0{ltgsf dNodf j [4 klg xg ; Sb5 .

hlj s klj lw (biotechnology) n] s]ifdf ; #lg lgsfox?sf nflu Jofks cj ; /x? kbfg u/\$] 5 . j zfgut tl/sfaf6 kl/dfhg ul/Psf (genetically modified) afnlj :tx?sf] pTkfbg u/L cGt/fli60 s]if tyf kz' cg' Gwfg s]b]x?n] lj z]f km0bf p7f0 /x\$] 5 . of]clt ; j]hgzn lj ifo ePsf] g]kfndf azfgut tl/sfaf6 lj sf; ul/Psf afnlx?sf] pkof] > l % sf] ; /sf/sf] glt af/f lgb]z' xg' kb5 . sfomd ; #fngsf] nflu lj z]f kxn ug{kg\$ . o:tf cg' Gwfg klj lw vlr]f] ePtf klg af]4s ; DklQ cflwsf/sf] cflwkTotfn] ubf{ax/fli60 sDkglx? (multinational companies) n] vr{u/] dtflj s j 9l nfe k]kt ug{ ; S5g\ ltglx?sf] kdV ; /f\$]f/sf] laifo g]kf x] / pglx? dhe't?kdf 7hf ahf/df s]b]t /xG5g\ t; y{hlj s klj lw lj sf; sf ; Gbedf Ohfhtkq lng] / pTkfbt a:tdf /fh:j (royalty) nufpg ; lsg] ; efj gfsf] klg v]hug{cfj Zos 5 .

**#=@= s]if M lj sf; sf] dh (Agriculture: root of development)**

s]if g]kfnsf] cfly\$ lj sf; sf] cfwf/ dfq g e}of]Ps hlj g z]l, k/Dk/f / ; f:s]ts kl/j z klg xf] . s]if lq] ; dli7ut lj sf; sf] s]b]lj Gb]sf] ?kdf /x\$] 5 / eljiodf klg of]l:ylt sfod g}/xg] b]vG5 . s]ifn] b]zsf] sh ufx{y pTkfbgdf \$)% of]ubfg k}of0{cy\$Gq alnof] agfpg cu0fl eldsf v]h/x\$] :ki6 5 . ctM s]if tnf0{b]z lj sf; sf] dh eGgdf cTolQm gxf]h . o; ; Gbedf b]zdf lj Blts/0fsf] ; du] lj sf; , cf]fl]usls/0fsf] b]t/ nx/ / tt\ cg?k ; 8s ; #fnsf]/rgfdf lj z]f j ] lbg klg s]ifsf] cfwlgs/0fdf lj z]f hf\$ lbg' kg] b]vG5 .

g]kfndf lautsf neuu b0{bzssf] cj lwdf s]if lq]sf] aflif\$ j [4b/ sl/j # k]tzt /x\$] 5 . csf] km]tYofsn] b]zdf hg; Wofsf] j [4b/ !(\*) sf] bzsdaf aflif\$ @% U / !(() sf] bzsdaf @# U b]yp\$ . b]zsf] cy\$Gqdf lj z]f ; DalGw sfod u/\$] s]if lq] h; df sh hg; Wofsf] neuu \*! k]tzt efu lsfzln /x\$] 5 o; n] :ki6M ckoff]t?kn] b]zsf] v]BfG kl/kl't{ ul//x\$] 5 / b]zsf] cfly\$ lj sf; df ck]lft cu0fl eldsf v]g ; ls/x\$] 5g .

lj sf; ; be\$] atdfg l:yltdf s[iflfdg pRr j[4b/ sfod u/L To; af/f g[kfnsf] ; du  
 cfly\$ ?kft/0f ug{ jfx\$ c? ljsNk 5g . ckllft kltkm kllktsfjflu lj Bdfg lgj fxdvl  
 s[if kffnlndf{Jo; fodvl v}l kffnlndf kl/j t6 ug{lgtf6t h?/L 5 . o; x}t' klj lw lj sf;  
 / k}f/ df dglo ; dlrt k6f; sf] ; fy}cftl/s / c6t/ sfokffnlndf klj oftf ; dfj } ug{  
 ; :yfut ; Argdf ; do / sfo{cg?k yk k6f; ug{ cfj Zos blv65 tfls o; abln6f]  
 kl/k]fdf ; zflwt sfokffnl] s[fs ; dbfosf] ; dof]rt cfj Zostf cg?k k6fj sf/L  
 ?kaf6 ; #fng xg ; sf] \

**\$= lj Bdfg /ofgllts lj ifox? (Present strategic issues)**

**\$=! /fli60 glltx? (National policies)**

gj f}of]hgdf pNny eP cg' f/ ; k6f{lfdgsf lj sf; cleofgx? ul/al 36fpg]/fli60 p2]odf  
 of]ubfg ug{lbzdfdf lgb{6 5g\ s[if tyf kz'lj sf; nf0{o; cydf cuj f lfdgsf]?kdf lngkg]  
 x65 . ; lglZrt vfB ; /lfof, pE]nflbf]cfly\$ j[4 tyf s[if Pj +; Dalwt kfs[ts ; f]x?sf]  
 lbuf]pkof]ufy{ j}flgs ; }rgsf] k6fj sf/L / szn k6f]uaf6 j}t-cfly\$ l:y/tf kllt  
 u/L ul/jL lgj f/0fsf]of]p2]o xfl; n ug{kg5 .

lj utsf bzsd f dVotM v}l of]o hdlgsf]la:tf/, p6gt afnl tyf kzsf hftx?sf]; wof]ds  
 j[4af6 s[if tyf kz' ptkfbgdf lj sf; xfl; n ul/Psf]lyof]. abln6f]kl/k]fdf s[if tyf kzsf]  
 ptkfbg Pj +ptkfs]jdf efjl ; wf/ gjlg-klj lw -innovative technology\_ tyf p6gt  
 ptkfs]j sf/s (improved factor productivity) df cfwfl/t xgkg5 . o; af6 gj]j zif  
 dx]j sf j:t' (high value commodities) sf]k6fj /df j[4sf] ; fy}rNt]sf] s[ifnf0{156}  
 Jo; ; fodvl v}l kffnlndf kl/j t6 ug{ ; lsg]5 .

**\$=@ cg'; Gwfg sfofj nl ( The research agenda)**

s[if tyf ; Dalwt kfs[ts ; f] cg'; Gwfgnf0{ ; xof]u ug{kdv lgsfosf]?kdf lj Bdfg g[kfn  
 s[if cg'; Gwfg kl/ifb\kfs[ts ; f] , v}l kffnl, s[if pBdl tyf ufdLoflfdg hllj sf]kfhg ug]  
 cj; / tyf ahf/ Jo;:yf cflbsf] ; bedf cg'; Gwfg sfofmd Pj +kfyldstf lgwf{0f ug{  
 ultzln Pj +; lso xg' cfj Zos 5 . o; sf nflu j tdfg cg'; Gwfg sfofmdx?sf] ; dlff u/L  
 cfj Zos kl/dfhg ug{kg5 . xfn s}l lfdgdf bixfl/P/ cg'; Gwfg sfofmdx? ; #flnt e0{/x}sf  
 blv65g\ csf]t/, kfs[ts ; f]x?sf laljw laifo, v}l kffnl]sf]; fdlhs cfly\$ klfx?, tyf  
 ahf/ laZn]fof, v}ldf hn pkof]u, kz' tyf s[if-jgsf] c6t/; DaGw, n}lus laifox? /  
 ; dli6ut gllt lgdfdf sd}larf/ ku\$] 5 . ctM hg sfof] lw ckgf0 xfn g[kfn s[if  
 cg'; Gwfg kl/ifb\ s[if ; d:of klxrfg u/] cg'; Gwfg sfofmdx? lj sf; u5{/ To; sf]nflu  
 cfly\$ ; f]sf]ljlgof]hg u5{tl tl/sdf dhet ; wf/ xg'kg]h?/L 5 .

**\$=# klj lw x:tf6t/0f (Technology transfer)**

g[kfnn]l5d\$] dh's tyf c6t/6i60 s[if ; :yfx?af6 g[kfnsf] kl/l:ylt ; xfp6f] klj lwnf0{  
 clwstd dfqdf ux0f ug{ ; Sg' kb5 . /fli60 kllj lws lfdtdf clej [4 ug{c6oq lj sl; t  
 To:tf klalwx?nf0{cl}sf/ u/L To; /L kllt klj lwx?nf0{dh'ssf]cfj Zostf cg?k kl/dfhg  
 u/L szntfk] \$ k6f]u ug{ ; Sg'k5{.

/fli60 s[if tyf ; Dalwt k[ts[ts ; f] cg; Gwfg k4ltaf6 lj sl; t klj lwnf0{kf0n6 k/lif0f u/L ; /sf/L, u} ; /sf/L tyf lghllfqs ; Dalwt k|f/ lgsfox?; E ; xsfo{ u/L To:tf lj sl; t klj lwnf0{dhsdf lj :tf/ u/fpg]gllt xg\$ .

cfufdl lbgx?df lj sl; t klj lwnf0{ pkefQmfx?df k|f/ jf ; }f k[fg ug lgsfodfknf klj lwx?sf] pkfb]otf a9fpg] jftfj /0f l; h[uf ug{ kl/ifb[ cxd\eldsf vlg' kg\$ . o; ; bedf sltko lj sl; t klj lwx? lsg cg; /0f ul/Psf 5gg\eg] hfg' klg cfj Zos 5 . /fli60 lj lw ; fdfhs-cfly\$, s[if-hnjfo' tyf ax; Vos s[is Pj +s[if pBdlx?df ; f] ; fwgsf] pkn[Awsf] cj :yfdf lj sl; t klj lwsf] pkoQmf, u[Aotf Pj +kl:t.kwf[ds lfdtf kl/ifb[]ule/tfk] \$ dNoflg ug lfdtf lj sf; ug{yk kfyldstf lbg' kg\$ .

### **\$=\$ ; ayf-lj ifout r'gf]lx? (Institutional issues and challenges)**

pkoQm cg; Gwfg sfo[mdsf] th[uf Pj +sfof]og ; lfd?kn] ug{ blf Pj +cgejl sd{f/lsl cfj Zostf kb\$ . Pp[uf kd'v ; /sf/L s[if cg; Gwfg ; ayfsf] ?kdf gkn s[if cg; Gwfg kl/ifb[] blf j } flgsx?nf0{cfsli[ u/L ls[ozln u/f0/fvg vf; lsl; dsf] r'gf]lsf] ; fdgf ug{ k/\$f\$ . xfn kl/ifbdf o; u[fsf] cefjn] cg; Gwfg sfo[mdsf] kefj sl/tf Pj +lg/t/tfdf ; d] kl'tsh kefj k/\$f]5 . pkoQm ; eflj thgzlQm kl/ifb\afix/sf laleg s[if cg; Gwfg tyf lj sf; sf u} ; /sf/L ; ayf cyjf bft[ ; xofudf ; #flnt lj sf; ofhgfx?df ; mlg 5g\cyjf k/fdz[ft[ ; ayf :jom]g} ; #fng ul//x\$ 5g\ xg t o; k] [Qsf] Pp[uf ; sf/flds kl f s]klg xg uPsf]5 eg] ; /sf/L lgsfo afix/ klg cg; Gwfgsf] l[qs]la:tf/xg uPsf]5 .

Pp[uf /fli60 glltut cg; Gwfg lgsfosf] ?kdf /x] kl/ifb[ ]/fli60 s[if cg; Gwfgdf dfgj lo ; f]sf] kl/rfng, ; dgjo / kyk[eg ug{ efl r'gf]lsf] ?kdf /xg\$ . at[fg P[ c[ut kl/ifb\afix/sf of]o cg; Gwfgstf?nf0{k[fofls/0f (accredit) ug{ ; lsg] Joj :yf 5g . g t kl/ifb[ ]cfk[uf j } flgsx?nf0{lghllfqs lgsfodf sfhdf v[fp]klj wfg g}5 .

### **\$=% ul/jL, ; dfgtf Pj +n]Es ; /f\$ / lj ifos ; ofhg (Incorporation of poverty, equity and gender concern)**

ul/jL lgj f/0f ug l/fli60 ; /f\$ / Pj +pk]ft tyf l; d[gt]u\$]lj z]f cfj Zostf?nf0{nllft ug l/fhosf] lhDd]f/l /x\$] ; bedf cg; Gwfgstf?n] ol laifox?nf0{ cf^gf] cg; Gwfg sfo[mdx?df ; dfj z ug{cem a9l s[ib]t xgkb\$ . lj utdf ol lf[ax? pk]ft g}/x]. To:t] sf/0fn] g} kl/ifb[ sltko klj lwx? ck]ff u/] h:t} kefj sl/l xg ; s\$ 5gg\ . gkfnsl ax; aVos u[dl0f ; dbfodf ; fgf, ; ldf[tf Pj +sd ; f] ePsf ul/j s[is Pj +s[if pBdl /x\$ 5g\ . loglx?nf0{vfB[fo cfj Zostf kl't{ug{/ Joj ; fof]dv ls[fsnfkx? ug{lj z]f ; d:of tyf cj /f]x?sf] ; fdgf ug{ k/\$f]5 . o:tf]cj :yf cem laz]f?kn] blnt Pj +clnk; Vos ; dxdf /x\$]5 .

klj lw lj sf; Pj +k|f/ h:tf sfo[uf u[dl0f dlxfx?sf]cj :yfk]t ; j[bgzln /xgkb\$ . s[if tyf kz' h[go a:tx?sf] ptkfbg, e08f/0f, k[fwg tyf laq[sf] ; fy} ; Dalwt k[ts[ts ; f]x?sf] ; sng, ; bkof] Pj +Joj :yfk sfo[?df k?ifx?sf] e[bf a9l of]ubfg dlxfx?sf] /lxcPsf] 5 . o; gofF/0fgllt cg?k s[if tyf ; Dalwt k[ts[ts ; f] cg; Gwfg sfo[ ; #fngdf n[us laifox? pkoQm 9^un] ; dfj i6 xg\$g\

**\$=^ lbuf]jftfj /0flo l:ylt (Environmental sustainability)**

s[lfsf]lbuf]lj sf; / jftfj /0flo ; Gthg ; bēdf df6f\$]pj {fzIQmsf]xlf; , ckf/ hn ; ftsf] e08f/ ePtfklg hnsf] ; dlrt Joj :yfdf sdl Pj +s[lif tyf c6o kfs[ts ; ftx?sf]ljgf; dxTj k0f{ r0f}l ag\$] 5 . ljutsf] Psfsl sfoz}nl cg?k cnu lf0, pk-lf0, a:t' Pj + ljifodf PslnP/ Wbfg s[fbt /xg' / kfs[ts ; fts ; Dal6w axt\cj ; /x?nf0{pk]ff ul/g'g} o; sf dVo sf/0fx? xg\ gkfn s[lif cg; Gwfg kl/ifbn]cfkngf]sfoz}nldf ; dofgsh kl/jt0 Nof0{ ol laifox?nf0{ k]olf ?kdf ; dflxt u/L sfoqnd ; #fng ug\$ . cg; Gwfg k4ltn] k0fj sf/L kfs[ts ; fts Joj :yfkq tl/sfx?sf]k/Llf0f / lj sf; sf ; fy}kof] /0f ; wf/sf]cfwf/ la:tf/df ofubfg k0fpg\$ .

**\$=& s[lif Joj ; fols/0f (Commercialisation of agriculture)**

bzdf 7hf] ; Wofdf lj Bdfg s[lifh6o kbfsf kzf]wgstf{ s[lif Jofkf/L, lat/s / s[lif pBdlx?sf] nflu rflxg] vf; klj lw tk0 gkfn s[lif cg; Gwfg kl/ifbn] sfof]og u/\$f cg; Gwfgx?n]Wbfg k0f0Psf] 50 . o; n]ubf{hlj sfkfh0dvl s[lifnf0{Joj ; fof]dvl agfpg ; lsPsf] 50 . eljiodf ptkfbsx?nf0{ cfj Zos ; xofu k0fpgsf ; fy}To:tf pBdlx?sf] ; d:0fx? klt klq oy]6 Wbfg lb0g\$ . ctM/fli6 s[lif tyf ; Dalwt kfs[ts ; fts cg; Gwfg k4ltsf k0v laifox?df ; wfl/t ahf/sf]kxF, afnl ptkfbgfk/f0tsf pkoQm klj lw, ; jbz] tyf lj bz] ahf/df ; Dal6wt dNof] ; Fgf, ; Fgfsf] kjfx / tI; Dal6wt cWb]j lws 1fg ; dfj z xg\$g\ . dudf s[lif-ag, hn Joj :yfkq tyf kfs[ts ; fts Joj :yfkq laifox? ; d] ; dfj] u/L s[lif tyf ; Dal6wt kfs[ts ; fts cg; Gwfgsf] lf0nf0{la:tf/ ul/g] 5 . s[lif Joj ; fols/0fsf] la:tf/nf0{ hlj s lj lwtsf] ; Af0f / lbuf] jftfj /0flo klfsf] cfj Zostf cgsh ; #fng ul/g\$ .

**\$=\* lj ljw cfly\$ ; xofu ; fts (Diversified sources of financial support)**

gkfn s[lif cg; Gwfg kl/ifbn] nflu cfly\$ ; fwg h0fpg]s/f Ps uel/ laifo /x\$]5 . bft[ ; :yfx?nf0{kl/rfng u/] cfof]hgfx?sf] ; Wofdf j [4 ePsf] 5 . ; dudf pglx?sf] ; /sf/L s[lif cg; Gwfg kltsf] ; dy0 36bf] 5 eg]afx0 ; ftsaf6 klt xg]cfly\$ ; xofu u} ; /sf/L cg; Gwfgstf{x?sf]nflu a9bf]5 . sfo{ #fng Pj +; DklQ Joj :yfkq (asset maintenance) sf nflu >l % sf] ; /sf/ / ; lldt bft{x?af6 klt /sddf g}kl/ifbn]ge{ 5 . kl/ifbn]s[lifdf ; #lg ul/a ls; fgx?df a9L Wbfg lbgkg]xbf k]olf vr{p7fpg ; Sg] ; efj gf /x00 . csf] tk0 cg; Gwfg Pj +lj sf; sfoqndsf]a9L kltzt /sd lghl]f0n]axf0{kg]e0g]bft[ ; dbfosf] rfxgf a9bf]5 . klt:kwf]ds k4ltaf6 cgbfg ; xofu ug]kl/kf6sf]lj sf; df klq bft[ dXsf] rfxgf /x\$] 5 . t; y{ kl/ifbn] cg; Gwfg sfoqndx?n]To:tf] ; xofu klt ug{ klt:kwf] ug{Sg] lfdtf a9fpg' kg]xbf a9L blf j ] flgsx?sf] lgoIQm Pj +pglx?nf0{ cfslif ul/ lsfzln /Vg]Joj :yf ul/g]5 .

kl/ifbn]lg/0t/?kdf ; /sf/L tyf bft[xofunf0{cfslif ug\$ nflu s[lif cg; Gwfg ; Dal6w cfkngf] klti7fnf0{ sfod /Vg ; Sgkb\$ . ; fy}lghl nufgl / axt?kn]s[lif cg; Gwfg; E ; Dal6wt ; dXx?; E]sf] ; femf/Lnf0{kl/ifbn]kj 40 ug{ ; Sgkg]x05 . at0fg cj :yfdf sltko bft[ :yfx?n]s[lif tyf c6o kfs[ts ; fts Pj +pklf0x?df cg; Gwfg tyf lj sf; sf k4ltdf ol lf0sf alr cfk; l c6Q/; Da6w / lge{tfaf/] j]f:tf u/L nufgl ; xofu ul//x\$] 5g\ .

elj iodf ; Dk0f{ ; /sf/L tyf bft[ ; :yfsf ; xoflunf0{pkoQm 9un} ; øfhg u/L ; flt{x?sf]cem  
a9L / ; lfd pkofl\sf nflu ; Dej eP ; Dd Psls[ ul/g]5 .

**%= elj iosf]b[i6sf]f / sfof{wsf/ (Future vision and mandate)**

s[if tyf ; Dalwt kfs[ts ; flt / ; f] ; Dalwt 1fg-lj 1fg, klj lw tyf ; lksf] lj sf; Pj  
køfl\af6 ul/al lgj f/0f ug]b[zs]dxfcleofgdf 6]f lb0{s[ifdf cfwfl/t cfBfl]us lj sf; tyf  
lbuf]hlj sf ; wf/sf]nflu s[if tyf kfs[ts ; flt cg' ; Gwfg k0ffnlsf]lj sf; ug]o; al; aif[  
cj wf/0ffsf]b[i6sf]f xg5 .

**%=! gkfn s[if cg' ; Gwfg kl/ib\sf]eldsf (Role of NARC)**

s[if tyf ; Dalwt kfs[ts ; flt cg' ; Gwfg k4lt / glt Pj +0fgllt th0f ; be0f gkfn s[if  
cg' ; Gwfg kl/ib\ (Nepal Agricultural Research Council) (NARC) n]/fli60:t/df  
zlif{lgsfosf]eldsf v]lg]5 . o; n]gkfn]s[if cg' ; Gwfgdf lfdtfzln ; Dk0f{ lgsfox? ->l  
% sf] ; /sf/ , /fli60 s[if tyf kz' lj 1fg cg' ; Gwfg kl|ti7fg, u[ ; /sf/L Pj +ghl lgsfox? /  
lj Zj lj Bfno?\_ / nfeufxlx?df ; flt ; dgj o / axklfo?kn]la:t[ ; xeflutsf]nflu knflknf]  
/ bl/nf]jftfj/0f l; hgf ug5 . b[zs leq Pj +afx/ pknAw j ]flgs Pj +kfs[ts ; flt{x?sf]  
szn Pj +Jofks kl/rfngaf6 gkfnl hgtfsf]vfB ; /lffdf ; wf/ Pj +cfo:t/ j]4sfnflu  
pkoQm klj lwsf] lj sf; Pj +k] f/ sfo0f cg' ; Gwfgsf] axklfo Joj :yf ug{ kl/ib\ a9L  
ls0flzn /xg]5 .

gkfnl hgtfsf] ; fdlhs, cfly\$, kfl]6s:t/ Pj +vfB ; /lff h:tf k0v klfx?sf] ; wf/df s[if  
tyf ; Dalwt kfs[ts ; flt cg' ; Gwfgdf g[ ] k0fg u/L ofl\ubfg lbg' kl/ib\sf]vf; p2]o xf].  
kl/ib\sf]0{ kf/bzl{ k0fj sf/L / /fli60 :t/sf] zlif{ ; :yfsf] ?kdf :yflkt ug] b[i6sf]f  
/flvPsf]5 . o; n]b[zs leqsf ; Dalwt ; :yfx?af6 ; flnt cg' ; Gwfgdf ; xofl / ; dgj o ug]  
/ cgldg ug]h:tf sfo{ ug5 . c0 ; /sf/L lgsfox? -s[if laefu / kz' ; ]f laefu, sxl  
afnl tyf a:t' lj sf; af0{ tyf ; ldt / c0 ; /sf/L pBflx?\_ , lj Zj lj Bfno, u[ ; /sf/L  
; :yf, lghl l0x? / JolQm?n] ; rfng u/0f cg' ; Gwfg sfo0m{x?nf0{ axcfolds  
(pluralistic) cj wf/0ff cg?k kl/ib\]kfl; fvg / ; xofl ug5 .

kl/ib\sf]cg' ; Gwfg sfo0] og sfo0] lwdf ; l0gxt sfo{x? h:t}glltut lj Zn]f0f / dfu0z0,  
cg' ; Gwfg kfyldstf lgwf{0f, ; flt ; xofl, ; dgj o, u0f:t/ lgo0q0f, cgldg / dNoflg,  
k0fj sfl/tf klxrfg / lgwf{0f tyf ; Rgf k]fx cflbnf0{cnu cnu ul/ 560f0g5 . kl/ib\]  
cg' ; Gwfgdf ; 0lg ; /sf/L, u[ ; /sf/L tyf lghl l0sf ; k0f{ lfdtfzln lgsfox?sf]  
; xeflutfnf0{kfl; flxt ug5f ; fy}cg' ; Gwfgstf{x?sf] lfdtf clej [4df ; xofl lgodgug]tyf  
; xhstf{sf] sfd klg ug5 . ; Dk0f{cg' ; Gwfgstf{x?nf0{ knflknf] jftfj/0f l; hgf ug] /fli60  
c^0sf] ?kdf sfd ug{kl/ib\sf]uxg lhDd]f/L xg5 . kl/ib\]of]eldsf lgj fx ug5f nflu  
cfj Zos lgodx?sf] th0f Pj +sfo0] og tyf cgldg ug5 / lj sl; t pkoQm klj lw?af/]  
; Rgf k]fx ug5 . /fli60 / c0t/fli60 l0sf j ]flgsx?; 0sf] ; xsfo0f0{kfl; fvg lbg' klg  
kl/ib\sf] bl30fnlg eldsf xg5 . kl/ib\] ; /sf/L, u[ ; /sf/L / JolQmut l0sf of]o  
cg' ; Gwfgstf{0f{df0tf k0fgug]cf]krl/s lgsfosf] ?kdf sfd ug5 . s[if tyf ; Dalwt  
kfs[ts ; flt]sf]pRr cllbogx?nf0{ ; Dalwt lj Zj lj Bfno k4lt; 0 cfj 4 ul/g]5 .

pNn]vt p27o kft ug\$] nflu s[if ptkfbgdf j[4 / ; DalGwt kfs[ts ; f]sf] lbuf] Joj:yfkg kl/k]fdf ljZjJofkl kl/jtGsf rgf]Lx? ;fy} ;/sf/af/f lgb]zt glt tyf kfyldstf?j f6 kl/ib\nglb[6 /xg\$ .

**%=@ kl/jltt ; yfut ; Argf (Major institutional changes)**

kl/ib\$]atGfg ; a7gffds ; Argfnf0{gofF/0fgllt cg?k ; zfv]g ul/g\$ . o; n]s[if tyf ; DalGwt kfs[ts ; f] cg' Gwfgdf axkllfo lgsfox?nf0{; xeful aGg k]l; flxt ug\$ . o; sf nflu ; /sf/L c^ux? ; DalGwt ljZj ljBfnof? , afnl-a:t' af\$ / ; ^ux? , u}; /sf/L tyf Joj ; fol ; yfx? nufot ; ah; f]nllft au{?sf]kl]tlglwTj kl/ibdf pkoQm?kdf xg\$ . kl/ib\$]lgofGx? sfof]og ug\$ nflu o; sf]Ps ; ^ul7t ; ljwfoQm / cfjZos ahG ePsf] ; lrjfnof xg\$ . s[if dGqnoaf/f ul7t 5gfG ; ldtsf]l; knl/; df lgoQm of]lo sfo\$]L lgb]zsn]o; ; lrjfnof]kDvsf]?kdf sfd ug\$ . kl/ib\]; f] kl/rfng, pkof] / kefj sfl/tf cgludg ug] :jR5 / p27odhs ; Gqsf]lj sf; ug\$ . kl/ib\ ; xeful ; yfx?n] kl/of]hgfsf] k]tfj k]tt ug{ ahG thG / kefj sfl/tf dNof]g ug\$] nflu pkoQm kmdGx? / lgb]zsf? agfpg]5 . kl/ib\] sfoGmd / nufgl]sf] kfyldstf lgw]of ug\$ . ; xeful ; yfx?sf] sfoGmd sfof]og / c]ttf]ljf sfoGmdaf6 kg] kefj sfl/tfsf] dNof]g ug] sfoGdf kl/ib\; mlg xg\$ .

kl/ib\; lrjfnoleq glttut ljZn]fOf, cg' Gwfg Joj:yfkg, kefj sfl/tf dNof]g / ; r'gf kl]j lwdf oy]6 lfdtf ePsf rflxbf]; ^vofdf dfq sd{/L /xg\$g\

/fli6 s[if cg' Gwfg tyf lj sf; sf]f (National Agricultural Research & Development Fund) (NARDF) sf] cjwf/OfcG; f/ g]kfn s[if cg' Gwfg kl/ib\$] kl]t:kw]ds cgbfg cg' Gwfg sfoGmd ; #fng xg\$ . kl]t:kw]ds cg' Gwfg sfoGmdf NARC Policy Body nf0{j 9l kefj sfl/L u/fpg NARDF / NARC n]; GQm?kdf sfd ug\$ . klxrfg ul/Psf cfwf/e't tyf c]t/ u cg' Gwfg (basic & core researches) sfo\$] nflu cfjZos /sd pkn]w u/f0g\$ . kl/ib\hf0{ cfjZos kg] /sdsf] kDv ; f] o; k\$ / xg\$gM ; /sf/L cgbfg, aflx/L bft [yfx?sf] cfly\$ of]ubfg, laleG a:t' lj sf; af\$ (?af6 k]t]xg] cfly\$ of]ubfg, laleG s[if pB]ux?sf] rfxgfcg?k cg' Gwfg sfoGdf k]t xg] cfly\$ of]ubfg, s[if pkhsf]cfoft / lgoft ubfGf cfpG]lj z]f s/ /sd cflb .

g]kfnl e"efudf laBdfg lj]w s[if hn]fohf0{Wbfgdf /fv] h]j s kl]j lw afx\$ cG ; DkOf cg' Gwfg sfoGmdnf0{lf]lo cfjZostfsf]cfwf/df hf\$ lb0g]5 .

kfyldstf k]t lf]df cg' Gwfgsf nflu k]l; flxt ug{ / cg' Gwfg Pj+l] sf; kl/kf6ldf sfo\$zntf / /fd] yllt a; fNg kl/ib\] vf; dfkb08 / t]; DalGwt lgb]zsf thGf u/L k\$zdf Nofpg\$ .

**%=# lhDd] f/L (Areas of responsibility)**

zlif{lgsfosf]?kdf kl/ib\$]kDv bflot] lf] ; #k]df lGdg adf]nd xg\$g\

- s[if; u ; DalGwt afnl, kz'-kl5 tyf d] :okfng, kfs[ts ; f]x? / u]dlOf lj sf; ; DalGw cg' Gwfg sfoG?, ; /sf/L Pj +u}; /sf/L lgsfox?n]; #fng u/\$f sfoG? ; d]nf0{k] 4G ; xof], ; dg] o / dNof]g ug] /fli6 zlif{; yfsf]?kdf sfd ug] .

- /fli60 cg' Gwfg sfo{/ ; f] lalgofhgdf bu0lfgsf hg-; dbfox? / s]if pBdlx? x?sf] rfxgf / klyldstfnf0{; lglZrt ug\$; fy} s]if, kz'-k15 / ; DalGwt k]s[ts ; f] cg' Gwfgx? ; Dk0f{nliftau{h:t} s]fs / ; fgf pBdlx? ; d]sf] k0f{; xeflutf / ; d]jodf sfo{ ug]. o:tf sfo0f ; fgf pBdlx?, vfBfg cefj ePsf / bu0lfgfnf0{l j z]f hf0 lb005 .
- ; DalGwt ; /sf/L l j efux?, l j Zj l j Bfnox?, u}; /sf/L ; :yfx?, lghlfgsf lgsfox? / of]o JolQmx? ; d]sf] ; Dk0f{ lfdtfzln cg' Gwfg ; xstf{x?sf] ; lso ; xeflutfnf0{kj 40 ug].
- s]if / ; DalGwt k]s[ts ; f] cg' Gwfgsf]kj 40df /fli60 / c0t/fli60 ; f]x?nf0{ kl/rfng ug].
- s]if cg' Gwfgnf0{ /fli60 cfj Zostf cgsh agf0 l j sf; sf] dhkj fxdf Nofpg] klyldstf lgwf{0f ug]/ cfly\$ ; f]sf] lalgofhg / sfo0md lgwf{0fdf ; d]j o ug]/ laleG cg' Gwfg sfo0mdf ; xhstf\$] x]; otn] of]ubfg k0fpg] c0t/ s]if (core fund) / k]t:kwf{ds cg' Gwfg s]ifsf]pkof]udf klyldstf lgwf{0f ug].
- pkoQm klyldstfx?nf0{k0f?kdf ; d]lxt ug]u/l cfj Zos ; wf/sf sbdx? rfnG].
- s]if, kz'-k15 tyf d]okfng / tt\cg?ksf k]s[ts ; f]x? ; DalGw cg' Gwfg / l j sf; sf lglDQ lfglo :t/df lfdtf j [4nf0{k]f]; f]xg ug].
- s]if tyf tt\cg?ksf k]s[ts ; f] ; DalGw l j sl; t klj lwx?nf0{ s]fs Pj + lfdtfzln pkof]ustf{; d]f k0fpg pkoQm ; 06qs] l j sf; ug]/ / ; /sf/L, u}; /sf/L tyf lghlfgdf /x\$ laleG cg' Gwfgstf{ / klj lw x:tf0t/0f ug] lgsfox? alr ; d]j o sfod ug].

**%= \$ l j Bdfg kl/ib\$sf] c0t]l/s ; wf/ (Reform within present NARC)**

**%= \$! c0t]l/d Joj :yf (The interim period)**

k]tt\al; aif]cjwf/0fdf c0t/lglxt ; wf/sf nflu P0nf0{; #baf6 kfl/t ug{; Deflj t b0{ aif\$]cj lwdf k]tflj t ; wf/x? ; :yfut?kdf :yflkt ul/g5g\

pkoQm P0 sfgg gag'-h] / ; #baf6 To; sf] cgdffg ge0-h]; Ddsf nflu s]if cg' Gwfgsf ofj t sfo0mdx? sfo0j og ug{pRrtd lgsfosf]pQ/bf0]j at0fg g]kn s]if cg' Gwfg kl/ib\$sf]xg5 .

kl/ib\$sf] at0fg sfo\$]l ; ldltnf0{ g]kn s]if cg' Gwfg sfo\$]l af0 (Nepal Agricultural Research Executive Board) (NAREB) sf]?kdf gdfs/0f ul/g5 / cg' Gwfg sfo0md sfo0j og lhDd]f/L o; \$] xg5 . /fli60 s]if cg' Gwfg kl]ti7fg (National Agricultural Reasearch Institute) (NARI), /fli60 kz' l j fg cg' Gwfg kl]ti7fg (National Animal Science Research Institute) (NASRI), lfglo s]if cg' Gwfg s]b]l]f]s[c=s] afnl-a:t' cg' Gwfg sfo0mx? sfo0j og ug{ u/fpg af0 (NAREB) sf] Pp0f ; lrjfn0 :yfkf ul/g5 . o; kl/j t0sf] cj lw leq ba}; :yfx? (NARC, NAREB) n]cf'gf]gofFeldsf cg' f/ kefj sf]l sfo{ug\$ nflu la:t] ; wf/ / sfo0hgfx? tof/ ug5g\ . p]n]vt c0t]l/d cj lw / k]tt\al; aif]cjwf/0f :j]st e}sk]5 klg ol ba}; :yfn]bz]of]hgf cj lw sf nflu s]if tyf ; xsf/L defno / /fli60 of]hgf cfo]u; ; d]j o sfod u/l l j :t] sfo0md tof/ ug5g\ cfj Zos ; z]lwt P0 lgod

nfu' gx6f; Ddsf nflu ol ; :yfx?n] c6tl/d?kdf sfd ug5g\ . o; cj lwdf al; aif  
cjwf/0ffdf pNny ul/P cg?k cfjZos tof/L ; d] ug5g\ . gllt / sfofj og  
lgsfox?alrsf]sfggl lj jfbnf0{sd ug{ c6tl/d\sfnnf0{oyf; e] sd ul/g]5 .

### **%=\$@bl3\$fnlg Joj :yf (In the long run)**

klxf]kfF aif6f Psk6s / To; kl5 k]o\$ % . % aif6f kl/ibh]k|t't\cjwf/0ffdf ; l6glxt  
kl/ibh]sf]eldsf, lhDdf/L / sfofj og eP cg; f/ k]kt pknAwx?sf] :j t6q?kn]kg/fj nf\$g  
u/fpg\$ . kg/fj nf\$g 6f]hlsf]l; kmf/; adf]hd df]hf sfo{k0ffnl / /0fglltdf ; d] pkoQm  
kl/j t6 / ; zfv]g ul/g]5 . dNof]g 6f]hldf :j t6q dhof]gstf{/xg5g\

### **^= kl/ibh]sf]/0fgllts cg; Gwfg glltsf]?k/}yf (Strategic research policy framework)**

kl/ibh]sf]/0fgllts cg; Gwfg glltsf]?k/}yf tn n]VP cg; f/ b0{efudf lj eQm 5g\

- s\_ dfu{bz\$ l; 4f6tx? /
- v\_ vf; /0fgllt

dfu{bz\$ l; 4f6tn] kl/ibh]f0{/fli60 glltsf] dhwf/df /xl ; xl af6] lx8n}pknAw e]ts,  
cfly\$, dfjlo / ; :yfut ; f]x?sf] ; bkof] ug{ lgb]zt ub5 eg] /0fglltn] lj le6g  
cg; Gwfg sfo{md sfofj ogdf ckgfpg'kg]tl/sfsf]JofVof ub5 .

### **^=! dfu{bz\$ l; 4f6tx? (Guiding principles)**

s]if / ; DalGwt k]s[ts ; f] cg; Gwfgsf nflu gofFdfu{bz\$ l; 4f6t b]zleq / lj Zj df  
pknAw k]r]nt / ; d; fdlos 1fgdf cfwf/t xg5 . o; k\$ / kl/ibh]lgDg pNn]vt k]v  
dfu{bz\$ l; 4f6t nf0{cluf/ u/] To; ; u cfj 4 /xl sfofj t xg5 .

- s\_ gllt th6f Pj +; d]j osfo{/ sfofj og cleef/f ol b0{sfo{f]x? k0f{k]f cnu  
/x\$]em]sg]u/L kl/ibh]; :yfsf]9fFdf kl/j t6 Nofpg]5 .
- v\_ l5d\$] /fi6x?, lf]lo tyf c6t/f]60 ; :yfx? / lghl lf]n]xfl; n u/\$f k]j lws  
pknAwx?af6 kl/ibh]nfe p7fpg]5 .
- u\_ ; DalGwt ; Ygf tyf 1fg ; sng u/L ; Dk0f{/f\$]f/jfnfx? (stakeholders) alr  
k] f/Of ug[k]v eldsf kl/ibh]v]g]5 .
- 3\_ s]fs, s]if; Dalwt kzlr]s]; s tyf c6o s]if; Dalwt cfly\$ sfo\$nfkx?af6 lg; [  
lg/Gt/ k]k km]/xg]:yflgo 1fg tyf klj lwnf0{kl/ibh]; bkof] ug]5 .

### **^=! ; :yfx? (Institutions)**

kl/ibh]leq ; :yfut ; wf/ sfofj og u/L dfly pNn]vt l; 4f6tx?sf] cfwf/df o; ; :yfsf]  
sfofj lw sfofj t xg5g\ . lj Bdfg kl/ibh]f0{b0{cnu cnu ; :yfsf]?kdf kgu7g ul/g\$ .  
gllt th6f]sf/ / ; d]j ossf]?kdf of]kl/ibh]z]if{lgsfosf]eldsfdf /xg5 / o; n]s]if tyf  
; DalGwt k]s[ts ; f] cg; Gwfg ah]sf]af8kmf6 ug5 . ax; Vos cg; Gwfgstf{x?af/f ul/g]  
cg; Gwfg sfo{x?df ; xof] ug5 . kl/ibh]k6f]sf/L 9^un]g]t]j k6fg ug5, / ; /sf/L Pj +

lghllfđdf sllif tyf ; DalGwt kfs[ts ; flt cg; Gwfg sfoQmd sfoffj og ugI lfdtfsf] clej l4df ; xfos xg5 .

sllif cg; Gwfg sfoQmd sfoffj ogsf] lhDdj]f/ gkfn sllif cg; Gwfg sfo\$fl ; ldlit xg5 . sfo\$fl ; ldlitn] sllif tyf ; DalGwt kfs[ts ; flt cg; Gwfg sfoQmdx?sf] nflu sfoffj os tyf ; dgjos lgsfosf] ?kdf sfo{ ug5 . o; sf] dftxtdf xfnst /fli60 sllif cg; Gwfg kl|ti7fg /fli60 kzlj1fg cg; Gwfg kl|ti7fg / cGtGtsf ; Dj lGwt laifoljz]f dxfzfvfx?, lfdlo sllif cg; Gwfg sllbx?, /fli60 afnl tyf a:t' cg; Gwfg sfoQmdx? /xg5g\ . kl|ti7fgx? lfs[c-s] /fli60 afnl tyf a:t' cg; Gwfg sfoQmdx?sf] ax\ sfo{ hfn / loglx?df sfoZln ax; Vos sd{f/lst] kj Gw ldnfpg] / ; kl/j ]f of ugI sfd kl/ifb\$sf] afB{ dfknt ul/g]kdv sfo{x? xg5g\ To:t}cg; Gwfg glltsf]sfoffj og ug{/ ; d:of lg/fs/Ofsf sfo{x? kl/ifb\$sf]afB{h}ugI5 . >l % sf]; /sf/kl|t kl/ifb\hj fknbx]l xg5 eg]kl/ifbkl|t afB{ hj fknbx]l xg5 .

/fli60 sllif cg; Gwfg kl|ti7fg nf0{bZsf]afnl tyf afujfgl; Dj lGw cg; Gwfg ugI / /fli60 kzlj1fg cg; Gwfg kl|ti7fg nf0{ bZsf] kz-k5L, dt:o Pj+r/g tyf 3f;afnl ; Dj lGw cg; Gwfg ugI pTs[6 cg; Gwfg sllbx?sf] ?kdf lj sl; t ul/g5 .

o:tf pTs[6 cg; Gwfg kl|ti7fgx?df sllif / ; DalGwt kfs[ts ; flt cg; Gwfg ugI lgsfox?sf nflu lj Zj lj Bfno; usf] cg] Gwgdf cg; Gwfg cfwf/t z]lfs tlnđ sfoQmd; dt] ; #fng u/L dfgj lo ; flt]sf]lj sf; ul/g5 .

pkoQm dfGottsf cfwf/df, lj Bdfg kl/ifb\$sf] sfoffj og ugI c^a\anf0{/fli60 gllt lgdfQf ugI c^a\af6 cnu u/L ; #fng ul/g5 . /fli60 sllif cg; Gwfg k4ltnf0{kfej sf/L, lj sllbbs] / ; xefuldhs agfpg kl|ti7fgx?, lfs[c-s] /fli60 afnl tyf a:t' cg; Gwfg sfoQmdx? afB{ ; lrjfn dkknt Jojl:yt ul/g5 .

kl/ifb\$kl|to\$ kf# j ifdf ul/g]; dliffj f6 cfj Zos byl lgbZg ePdf cGo yk kl|ti7fg tyf cGo cg; Gwfgsf lgsfox?nf0{gkfn sllif cg; Gwfg sfo\$fl ; ldlitdf ; dfj Z ug5 .

**^=!@ lfhlo cg; Gwfg tyf lj sf; (Eco-regional research and development)**

kl/ifb\$] t/f0{ kxf8 / pRr kxf8llfQsf] cg; Gwfgdf ; Gthg sfod ug5 . t/f0\$ sllsx? ahf/sf] kx# / v]lslf]; flt ; besf] bl[6n] thgf]sd?kdf ; lawfoQm 5g\ o; lfd] pGgt klj lwx?af6 l56f]kfej sf/L pknAw xfl; n ug{; lsg]lj Zj f; lnOPsf]5 . ; fy}t/f0df ePsf] p]kfbstj k]ltn]ubf{oxfsf]p]kfbgnf0{vl/b lasldf Nofpgsf cltl/Qm bZsf]zx/L lfd] ahf/df pknAw u/fpg ; lsg5 . csf]tkk xg]xf]eg]ul/a hgtfsf]a; f#f; t/f0df eGbf kxf8d}a9L 5 . ctM o; e]usf pNn]vt ul/a hg; dbfosf] hlj sf]fhgdf ; wf/ Nofpg kl/ifb\$]lj z]f Wofg lbg]5 . vfB cfkltGf ; wf/, cfDbfgl ; flt df j l4 / /fhuf/lst]cj ; / a9fP/ kxf8l / pRr kxf8llfQsf hg; dbfosf]hlj g:t/df ; wf/ Nofpg ; lsg5 . kmntM o; e]uaf6 t/f0{/ zx/llfQdf a; f0{/f0\$]nx/nf0{sduq{of]ubfg kl]g5 . kxf8l / pRr kxf8l lfd] lj Bdfg sdhf] jftfj/Of / vfB c; %lfnf0{Wofgdf /fvb}/fli60 sllif cg; Gwfg k4ltn] ol lfd] cg; Gwfgsf nflu kfyldstfsf ; fy nufgl ug5 .

**^!=# cfwf/e't, Joj xfl/s Pj +ufxð cg'; Gwfg (Basic, applied and adaptive research)**

kl/ifbñ]pkof]ustf[s]cfj Zostf tyf dfucg?k Joj xfl/s (**applied**) tyf ufð (adaptive) cg'; Gwfg sfoqmdx?nf0{kjwg ug\$ . Ifqlo kflj lws sfo{; dxx? (Regional Technical Working Groups) (RTWGs) sf] ; mltgtdf cg'; Gwfgstf{k} f/stf{ lj sf; ; DalGw ; :yfx? Pj +s[fs tyf ; DalGwt ; :yfx?sf] ; xeflutdf xg] ufdlof:t/lo sfozfnf ufl]7af6 l; kmf/; ul/Psf cg'; Gwfg sfoqmdx?nf0{kfyldstf lb0g\$ . v]l kofnl / afnl-j:t' cfwf/t cg'; Gwfg sfoqmdx?df hf\$ xg\$ . cg\$g sfoñ ; ldlnt ; xefuldhs ol sfoqmdx? axlaifolj z]f, axafnl-a:t' ; DalGw xg\$g\ sfof]t cg'; Gwfg sfoqmdx? ul/jl pGdhgdf :ki6 Pj+; sf/flds ofubfg ; xfos tyf jftfj/Oflo lbufk\$g, n]us ; dfgtf, ptkfbg Pj +cfoj [4df ofubfg ; xfos h:tf clenlf0foQm xg\$g\

cfudl lbgx?df kl/ifbñ]Jofks?kdf cg'; Gwfgstf{x}af6 ; DalGwt ; 'rgf Pj +hfgsf/l pknAw ug\$ . Ifqlo kflj lws sfo{ ; dxx?sf] pkof] ug\$sf ; fy} kl/ifbñ] cGo ; :yfx? h:t} ljZj lj Bfno ; mltg lgsfox? tyf lj sf; ofhgfx? -h:t}Psls[ zqhlj Joj:yfkg l; #f0 cfof]hgfx? cflb\_ nf0{cg'; Gwfg kfyldstf lgwf(0fdf a9L ; mltg u/fpg]lj z]f eldsf v]lg]5 . cfwf/e't (Basic) cg'; Gwfgsf nflu laleG ; xeful cGt/fli60 cg'; Gwfg ; :yfx? Pj + cGo ; f]x?af6 hfgsf/l kft ug{pkoQm ; oqsf]lj sf; Pj +0; sf]lfdtf clej [4 ul/g\$ .

**^!=\$ cg'; Gwfg tyf k} f/sf]cGt/; DalGw la:tf/ (Broadening of research-extension linkages)**

s[if tyf ; DalGwt k]s[ts ; f] cg'; Gwfgsf ; a} kof; x? lj sf; f]dvl xg\$g\ / ol kof; x?nf0{ ; du|s[if]f] tyf k]s[ts ; f]sf] lj sf; df cfj 4 ul/g\$g\ s[if tyf ; DalGwt k]s[ts ; f] cg'; Gwfgdf :jefljs?kn]axkllfo w}]Ifq Pj +pk]f]x? ; dflj i6 ePsf xG5g\ o ; }oyfyf0{b]6out u/L kl/ifbñ]cg'; Gwfg kfyldstf lgwf(0f ug\$ . xfn s[if ; DalGwt pk]lft lgsfox? h:t} afujgl, kz'-k5L tyf d]okfng, s[if-ag, h8labl, u]-sf7 ag ptkfbg, h]s lj ljwtf, hn Joj:yfkg, s[if kzf]vg tyf afnl ptkfbgfk/fGtsf sfo{x? , ahf/, n]us ; dtf h:tf laifox?df / jftfj/Oflo lbufk\$gfsf]kj 4Gdf kof]t hf\$ lb0g\$ . :yfglo, Ifqlo, /fli60 tyf cGt/fli60:t/df ; /sf/L tyf u}; /sf/L Ifqsf laleG lgsfox?; E pkoQm ; DalGw tyf sfof]og k4ltsf]lj sf; ul/g\$ h; af6 pknAw ; f]sf]clwstd pkof] xg ; Sg\$ .

**^!=% ; xsfl/tf tyf ; dembf/l (Participation and alliance)**

kl/ifbñ]cf^gf]nlo k]ktsf nflu pknAw ; f]sf]clwstd pkof] u/L Ifqlo, /fli60 tyf cGt/fli60 ; :yf Pj +lgsfox?alrsf] ; xsfl/tfnf0{ ; ls0?kn]k] ; flxt ug\$ . gofF/Ofgl]tsf] sfof]og k]s]f cg\$sh kl/ifbñ]cg'; Gwfgstf{x}nf0{ :j b]l tyf lj b]l z]fs Pj +cg'; Gwfg ; :yfx?; E ; DalGw sfod ug{/ ; xof] kft ug{ ; xsfl/tfsf k]s]fnf0{k] ; flxt ug\$ .

**^!=^ hgziQm lj sf; (Human resource development)**

/fli60 s[if tyf k]s[ts ; f] cg'; Gwfg k4ltdf ; mltg lgsfox?sf]lgldt hgziQm g}dVo ; fwg xf] . kl/ifbñ] ; xof] / cfly\$ 6]f lbPsf cg'; Gwfg sfo{x}sf]u0f:t/ ; lglZrt ug{

o; n] pkoQm lgbLzsf, sfoLj lw Pj + cfwf/x?sf] ljsf; ug5 . jt0fg kl/l:yltdf  
cg; Gwfgstf{x?nf0{ lbuf}kdf cfsliff u/l ls0fzln /Vg / pglx?nf0{ cfjZos tflndsf]  
Joj:yf ug{ kl/ibh0{ kdV rgf}l ePsf] 5 . tflnd kkt kl/is t of cg; Gwfgstf\$sf]  
; /sf/Lif0af6 cGoq knfognf0{/f\$ l cg; Gwfg / ljsf; sfo{; DalGwt ; /sf/Lif0df ls0fzln  
/Vg vf; Joj:yf ugkg5 .

kl/ibh]c6o ; :yfx?df ultzln /x\$ sf s[if tyf kfs[ts ; ff] cg; Gwfg k4ltsf]; dlfftds  
cWbog u/l yxf kf0Psf ljsl; t lj ifox? cfkngf]; :fff leqsf lj leG lgsfox?df cfjZos  
dxzz ePsf 7fpdf; wf/ x]'k0fu ug5 .

### **^!=& lj z]f Wofg (Special focus)**

kl/ibh]vfB; /lff Pj +kf]f0f ; DalGw lafox?sf cg; Gwfgdf lj z]f Wofg lbg5 . gkfnsf w}]  
h:tf kxf8l eLx? vfBfg ptkfbgdf lgs}lk5NpSf 5g\ o; tkf\$sf]kf]i6s:t/ klG lgs}  
boglo 5 . ol lf0x?df lj z]f Wofg lbgkgI; /sf/L glt cg?k ol lf0x?sf nflu kl/ibh]  
cg; Gwfgsf lgsfox?nf0{klj lw ljsf; ug{nufpg lj z]f k0f; ug5 .

### **^=@ vf; /0fgllt (Strategy)**

### **^=@! lj 1fg Pj + klj lw k4ltsf] kj 4G (Promotion of science and technology systems)**

s[if tyf kfs[ts ; ff] ; DalGw lj 1fg / klj lw k4ltx?sf]kj 4Gdf / ; fy]; :yf leq}/ cfkngf  
; xofuL Pj +; xeful ; :yfx?alr j }flgs ; :sf/sf] ljsf; df gkfn s[if cg; Gwfg kl/ibh]  
cu0lf eldsf vlg5 . kl/ibh0{ glt lgdf0f ugI ; :yfsf] ?kdf :yflkt ul/g5 h; n]  
cg; Gwfgsf a9L ; fble\$ sfoQmdnf0{ kj 4G ug5, /fli60 kfyldstf lf0 lgwf{0f ug5,  
cg; Gwfg / ljsf; sfo{ hfnx?nf0{; aul7t ugI5 / ; fy}c6o cg; Gwfg Pj +ljsf; ; :yfx?  
alr c6t/; DaGw sfod ug5 .

### **^=@=@ bft[ :yfsf] ; xofu tyf ; xofuL kl/ofhgfx? (Donor support and collaborative projects)**

cg; Gwfg ; :yfx?af6 a9L k0fj sf/L cg; Gwfg sfofj og sfoLj lw pknAw u/fp/ / cfjZos  
/sd pknAwtdf kx# k%ofP/ kl/ibh] ; xofuLfdS / bft[ ; dlyt klj lw ljsf; ; DalGwt  
kl/ofhgfx?nf0{ psf:g5 . cg; Gwfg / ljsf; bj0f bvn ePsf ljljw /fli60, lf0lo tyf  
c6t/fli60 ; :yfx?; + sfo{ hfn t0f/ u/l ; DaGw sfod ug{5b o; n]cg; Gwfg ; :yfx?nf0{  
lbg5 .

### **^=@=# cg; Gwfg sfoQmdf kfyldstf lgwf{0f (Priority setting for research programming)**

; s]Dd 5f0f] cj lwdf s[iflf0 vf; u/] s[ifsf]Joj; flos/0f tyf ; fgf ls; fg Pj +pBdlnf0]  
k]olf ; xofu ; DaGwdf clwstd ; sf/flds k0fj sf] nflu kl/ibh] cg; Gwfg kfyldstf  
lgwf{0f u/l cg; Gwfg Pj +klj lws sfo\$dx? t0f/ kfgI5 .

**^=@\$ :j bžl 1fg / :yfglo ; fwgsf]; bkofu (Use of indigenous knowledge and locally available resource)**

cg' Gwfg sfoqmdx? / klj lw ljsf; df :jbžl 1fg, k/Dk/fut klj lw / :yfglo pknAe ; fwg; ftx? 7ls; u ; fdh ug{kl/ifbħ} lj zif kxn ug[ 5 . :jbžl 1fg nfk xgxbg . oyf; ej o; sf] lfdtf ; bP kfg{k5{/ sg}klg gofFklj lw jf jšlnks klj lwsf]/vfg cyj f kl/dfhgdf o; nf0{; Demg' h?/L 5 . o; /L g} s[lfsf] ptkfbg lfdtf Pj +ptkfstj a9fpg :yfglo pknAw ; fwg; ftx? -df6l, jf6 lj?jf tyf kz'-k5L Pj +df5f, :yfglo hftx? \_ / k/Dk/fut ufpħ] ; lkx? sf] dglo pkofu ug{h?/L 5 . gofFklj lw jf jšlnks klj lwsf] ljsf; ug{cg' Gwfg sfoqdx? ; fng ul/bf lj 1fgsf ; fwf/Of lgodx? ; dfj žu/L :jbžl 1fg / k/Dk/fut ufpħ] ; lkx?nf0{kl/ifbħ} ; dfj ž u/fpg] 5 . kl/ifbħ] :yfglo ; ftx?sf] jšlnks kpfuaf/] cg' Gwfg / klj lw ljsf; u/L pkofu ug[ . gkfnn] c6t/f66 ; l6w ; Demfjfcg?k s[lf tyf kfs[ts ; f; Dal6w kfngf ug[kg] laifodf ; d] kl/ifbħ] cfj Zos Joj :yf ug[ .

**^=@% j žfgut ; ftx?sf] Joj :yfkq / ljsf; (Management and development of genetic resources)**

cg' Gwfg pkofuL ; kt tyf /fli66 k]fsf] ?kdf kl/ifbħ] kfl / ag:kltx?sf] j žfgut ; ftx?nf0{; Af0f, Joj :yfkq / ljsf; df oy]6 Wofg k0fpg[ . lj le6g afnlgnl, kmkthsf ?v, t/sf/L, kzk5L, hnr/ kflx? / :jbžl la?j fx?sf hfltsf cfwf/df gkfnsf] s[lf hlj s lj lwtfn] ; ; Dk6g 5 . s[lf klj lw ljsf; sf] nflu cg' Gwfgsf cfwf/e't tJx? ol g} xg\ lj utdf cfly[ ; f]sf] cefj, sdhf] ; dgj o Pj +buf] xg g; Sg] Joj :yfkq cflbn] ubf{ol ; DklQx? pk]lft lyP .

ljsf; ofhgf thdf ubf{kYjL lzv/; Dd]hg !((@ (Earth Summit 1992) sf] 3f]f0ffnf0{ dgq ul/g[ . o; ħf0{Wbfgdf /vL afnl, kz'-k5L, t/sf/L tyf kmkth, hnr/ / 3f; ħfnl tyf s[lf-jg, r/g ; Dj 6wL hlj s lj lwtfnsf] ; Daw6 / af]As ; DklQ ; Af0f; Dal6w sfoqmd ; fng ul/g[ . glltut lj Zn]f0f / /Ofllts cg' Gwfgdf lghLlq / ; fj hlgs lqsf] eldsfnf0{k] 4g ug{kl/ifbħ] cfrfl/s glltsf] thdf ug[ . hlj s klj lwsf] ljsf; nf0{plrt a9fj f lb0g[ .

**^=@^ h]j s klj lwsf] ljsf; (Development of biotechnology)**

vfbfg, afujfgl Pj + kz' k65lsf] ptkfbg tyf ptkfstj j[4 tyf hlj s >ftx?sf] j žf0fut -l8-Pg=P\_ :t/sf] rfl/lqs klxrfgsf] nflu /fli66:t/sf] hlj s klj lw kpfuzfnfsf] :yfkq / hgziQmsf] ljsf; u/L clbog tyf cg' Gwfg ul/g[ .

**^=@& kžf]vg / dxTj clej [4 (Processing and value addition)**

kl/ifbħ] cg' Gwfgnf0{; xh u/fP/ s[lf tyf ; Dal6wt kfs[ts ; f]sf] lfdf Joj ; fols/Ofnf0{ a9fj f lb0g[ . o; l; nl; nfdf c6g tyf gubħfnl, t/sf/L / kmkth Pj +kzkfng / df5fkfng / ptkfbgf] /f6t klj lwx? (post harvest technologies) sf] ljsf; u/fP/ o:tf a:tsf] dxTj clej [4 ul/g[ .

s[if pkhsf]Jofks kj 46 / pkofudf afwf ug[tTj x? l56f]lalug] sd dNo / ef/L j hg xg] dMosf] thgdf sd kf]6s, pTkflbt a:t' df} ddf dfq kf0g] / afnl tof/ xBf vkt eGb af9L pTkfbg (surplus) xg] cflb xg . kl/ifbñ] klj lw lj sf; sf] ofhgf th0f / tl/sdf glltut ; wf/ ug5 h; af6 pkhsf] dNodf j [4, vfB; /lffdf a9f0/L / /fhuf/Lsf cj; /sf] l; h0f xg5f; fy}cfoft kl|t:yfkg / lgof t j [4df; d] ofubfg klg5 .

o; /L g}pks/of / ; j}f k0fg ug]pBfu h:t}s[if cf]f/, l; #f0, bfgf pBfu, b0w pBfu, df; ' pBfu, zqhlj gfzs lj ifflbx? / kz/fu lgj f/s cf]fwlx? laqmf h:t'f ; dx{x?sf]; d:of Pj + ; Dal6wt klj lwsf]cfj Zostfnf0{; d] lazif Wbfg lb0g5 .

### **^=@\* ; 'rgf Pj #k\$zfg (Information and publication)**

kl/ifbñ]o; sf ; Dk0f{cg'; Gwfg s[tx?, gofKklj lwx? / ; f6ble\$ hfgsf/Lx? ; Dal6wt pkofu stf0f0{pknAw u/fpg ; 'rgf klj lwsf]k0fj sf/L k4ltnf0{; lglZrt u/fpg5 .

; 'rgf ; \$ng, clenvg / lj t/of ; j}sf] s[blj Gb'sf]?kdf eldsf vlg' kl/ifb'sf]Ps k0v sfd xg5 . /fli60 ; xeful, ; /f\$ f/j fnfx? / c6t/fli60 ; xsdx?; E ; 'rgf cfbfg k0fgug{ k0fj sf/L ; 06qsf] :yfkgf / ; #fng ug{kl/ifbñ] pknAw cfwlgs ; #f/sf ; fwgx? k0fudf Nofpg5 . ; f6ble\$tf cg?k CD ROM jf c6o cfwlgs d'wod jf/] cg'; Gwfg s[tx? / tYoflx? cfbfg k0fg ul/g5 . kl/ifbñ] j} flgs tYofl, ; 'rgf, lj Zn]f0sf nflu sDk0b/ kofshx? ; xeful ; dxnf0{ pknAw u/fpg] sfo0f ; xhstf\$] eldsf vlg5 . s[if tyf k]s[ts ; f] ; Dal6w sfo{t j} flgs ; dxnf0{; f] laifosf klj lw ; Dal6w c'wbj lws hfgsf/L pknAw u/fpg k0fg ul/g5 .

lj le6g cg'; Gwfg / k| f/stf{x?n] u/\$f] sfo\$] hfgsf/L Pscfk; df u/fpg tkm{l j zif Wbfg lb0g5 .

### **^=@( /fli60 s[if cg'; Gwfg / lj sf; glltdf ofubfg (Contribution to National Agricultural Research and Development Policy)**

/fli60 ofhgf cfofu / s[if tyf ; xsf/L d6qfno; E'sf] ; #lgtfdf kl/ifbñ] /fli60 s[if cg'; Gwfg lj sf; gllt th0f ug{>l % sf]; /sf/nf0{; ls0?kdf ; xofu k0fpg5 . ; fy} /fli60 s[if cg'; Gwfg k4lt c6tu{sf s[if cg'; Gwfg sfo0m?sf]; d6j ogdf ; d] ofubfg k0fpg5 . kl/ifbñ] s[if tyf ; Dal6wt k]s[ts ; f] cg'; Gwfgdf /fli60, lf0lo / c6t/fli60 ; Da6wsf]nflu s[blj Gb'sf]?kdf sfd ug5 .

### **^=@!) klj lw ; bkofu / cfo; f]sf]l; h0f (Technology utilization and revenue generation)**

kl/ifbñ] s[if Joj; fols/0fsf nflu klj lw / ; 'rgfsf] pkofu u/fpg] sfo\$] kj 46 ug5 . o:t0/L cfo; f]sf] l; h0fxg] sfo{x?sf] klj 46 ug5 . o; af6 cg'; Gwfg ; #fng ug{ ; #yfx?Nff0{cfj Zos kg[k]hsf]cflzs czdf eP klj cfly\$ cfdlge{tf cfpj ; Sg5 .

## &= ; [t]sf]cfj Zostf (Resource needs)

### &=! hgziQm (Human resources)

s[if tyf k[ts[ts ; [t] ; DalGwt ; a} lfdtfzln cg' Gwfg; :yfx?df cfj Zos tflnd k[kt / ofl]o hgziQm /fli60 cg' Gwfg k4ltaf6 pknAw u/fpg] glt th[cf cfpbf]!) aif[sf]cfj lw leq ul/g5 . cg' Gwfgsf nflu Gogtd :gftsfQ/ :t/ ; Ddsf] nflu klxnf] % jif[cf / lj Bfjfl/lw pkflw k[kt hgziQm ptkfbgsf]lgldQ !) jif{leq Joj:yf ul/g5 . o; sf nflu /fli60:t/sf]kf70qmd / kf70 ; fdul[sf ; fy}pkoQm lj Zj lj Bfno; E ; DaGwg k[kt ug[kg]x65 . ; fy}cfj Zos ; [t]sf]Joj:yf / s[if lj 1fg Pj +klj lw; DalGw /fli60 ; :s[tsf]lj sf; ; d[ ug[kg]x65 . t;y{/fli60 tyf c[et/fli60 lj Zj lj Bfno Pj +cg' Gwfg kl[ti7fgx?; E ldn] cg' Gwfg / pRr cllbog tyf tflndsf ; femf/L sfo[mdx?sf]la:tf/ ul/g5 .

kl/ibh] ; DkOf{s[if tyf ; DalGwt k[ts[ts ; [t] cg' Gwfg k4ltsf nflu hgziQm lgdfOf{tkm} lgDg laifonf0{; dfa} ug5 .

- kzkfng, s[if-j g lj 1fg, afujfgl, dT:okfng, ; fdfhs cyzf:q, gltut lj Zn]fOf, ; Ygf klj lw / cg' Gwfg Joj:yfkg -vf; u/L ; /sf/L lfd[cf] ; u ; DalGwt sd{f/lx? xfn Gog /x[sf]cfj Zostfcg?k kl/kl't{ug[sf]nflu cljnda sfo{; ? ug[
- klj lws / cfwlgs Joj:yfkg lfdtf / Joj ; flos lj sf; df ; wf/ ug[
- /fli60 cg' Gwfg k4ltsf?k kl/ibh]eq / aflx/ /fli60 cg' Gwfg lfdtfd ; wf/sf nflu sfd ug[
- ; fdfhs Pj +k[ts[ts lj 1fgdf ; mlg g[kfn] j }flgsx?sf]Joj ; flos ; e[qs]nflu ; xof] ug[
- lfdtfzln cg' Gwfgdhs; :yfx?sf]sfo{fdtf lj sf; df dbt\k'-ofpg]/
- pBf]f]ds cgzf; g lgxt s[if cg' Gwfgsf] j ftj /of l; h[cf ug[.

### &=@ cfly\$ ; [t] (Financial resources)

lj :t[ p2]o xfl; n ug{kl/ibhV o; sf]; l[rj fnonf0{cfj Zos cfly\$ ; [t] lbuf?kdf pknAw xg' cTofj Zos 5 . >l % sf] ; /sf/ / lautsf k/Dk/fut?ksf ; [t]sf cltl/Qm kl/ibh] cg' Gwfgsf] nflu /sd k[kt ug[ gofFpkfox?sf] klxrfg ug5 . pBf]hGo afnlx?sf] cg' Gwfgsf nflu ; DalGwt pBf]x?af6 /sd pknJw xg; Sg]; e[fg /x[sf]5 . xfn kf0n6 k/LlOf :j?k ; flnt kl't:kwf[ds cg' Gwfg cgbfg of]hgfsf] bfo/fnf0{a9fP/ o; sf] kOf{ ; e[fgfnf0{pkof] ug{; ls65 .

hlj sf]vl ; fgf ls; fg / cw{Jofj ; fol ls; fgx?sf nflu cfj Zos kg[klj lw / ; f]; DalGw ; [t] pknAw u/fpg] lhDd]f/L kl/ibh]sf]ePsf]x6f o; p2]o k[kt]sf nflu oy]6 cfly\$ ; [t] kl/rfng ug{h?/L x65 . o; sf/of >l % sf] ; /sf/af6 cfwf/e't cg' Gwfgsf nflu dllb]v bl3\$fnlg?kdf cfwf/ sf]f (core fund) pknAw u/fpg' kg]x65 . kl/ibh]o:tf]cfwf/ sf]sf] lg/Gt/tf sfod /Vg kl'ta4tf xfl; n ug[ km{sf]f]x ug5 .

kl't:kwf[ds cg' Gwfg sfo[mdsf l; 4f[et cg?k kl[yldstf k[kt cg' Gwfgsf laifodf klj lw lj sf; ug{ /sd lj lgof]hg ul/g5 . o; u/L ; xsfo[ds -collaborative\_ cg' Gwfg /

kf1s ljj]gfdS cg! Gwfg -dissertation\_ sf nflu klg o; }l; 4fctcg?k /sd pknAw  
u/f0g]. laBdfg lalgof]hgsf tl/sfsf]Jofks l; xj nfg u/L gofF/0fgllts k|tfj ul/g\$ .

**\*= lgisif{(Conclusion)**

cfufdl @) aif{ -lj= ; #@)%\* b]v @)&&\_ sf]cj lwsf nflu gkfnsf]s[if, kz' tyf ; DalGwt  
kfs[ts ; f] cg! Gwfgsf sfoGmd Pj +spsnfkx?sf]sfoffj og x]' ; fdfGo glltut lgbZg  
/ lbzf lglb{6 ug{k|t't\cj wf/0ff Pj +/0fgllt tof/ ul/Psf]xf]. /fli60 gllt / kfyldstfsf]  
cfwf/ Pj +; dofgsh kl/jlt\$ cfj Zostfg?k o; df kl/dflh\$ ; wf/ ub]nllg]; DalGw Joj :yf  
ul/g\$ .