**g]kfn ;/sf/**

**jg tyf e" ;+/If0f dGqfno**

**jg ljefu**

**lhNnf jg sfof{no, kj{t**

lhNnf jg sfof{no, kj{tsf] k~rjlif{o jg Joj:yfkg sfo{of]hgf -cf=j= @)&@÷&# b]lv @)&^÷&&\_ l:js[t tyf sfof{Gjogsf nflu tof/ ul/Psf] k|f/lDes jftfj/0fLo kl/If0f (IEE) k|ltj]bg

@)&@

-jftfj/0f ;+/If0f lgodfjnL @)%$ sf] lgod & ;+u ;DalGwt\_

k|ltj]bg k]z ul/g] lgsfo

**jg ljefu, aj/dxn**

**sf7df8f}+**

k|ltj]bg tof/ tyf k]z ug]{ lgsfo

**lhNnf jg sfof{no, kj{t**

**ljifo;'lr**

|  |  |  |
| --- | --- | --- |
| qm=;= | ljifoa:t' | k]h g+= |
| cWofo ! M k|:tfljt k|f/lDes jftfj/0fLo kl/If0f k|ltjbg | | ! |
| s= | k|ltj]bg tof/ ug]{ JolQm jf ;+:yfsf] gfd / 7]ufgf | ! |
| v= | k|ltj]bgsf] ;f/fFz | ! |
| cWofo @ M k|f/lDes jftfj/0fLo k/LIf0fsf] clGtd k|ltj]bg | | % |
| efu ! M kl/ro | | % |
| s= | e'ldsf | % |
| v= | k|:tfj, k|ltj]bg tof/ ug]{ ;+:yfsf] gfd / 7]ufgf | % |
| u= | k|:tfjsf] ljj/0f | % |
| 3= | k|f/lDes jftfj/0fLo k/LIf0f k|ltj]bgsf p2}Zox? | ^ |
| ª= | k|ltj]bg tof/ ubf{ ckgfO{Psf] ljlw | & |
| efu @ M k|:tfj;Fu ;DalGwt lglt, sfg'g, dfkb08 tyf ;+:yf | | ( |
| @=! | ljBdfg ;fGble{s lglt tyf sfo{gLltx? | ( |
| @=@ | ;fGble{s P]g lgodx? | !) |
| @=# | dfkb08x?, lgb]{lzsf tyf lbUbz{g | !! |
| @=$ | cGt/fli6«o sfg'g tyf ;Demf}tf | !@ |
| @=% | k|:tfj sfof{Gjog ubf{ ;dGjo ug'{ kg]{ ;+:yfx? | !@ |
| efu # M ljBdfg jftfj/0fLo cj:yf | | !# |
| #=! | ef}lts jftfj/0fLo cj:yf | !# |
| #=@ | ;fdflhs / cfly{s cj:yf | !$ |
| #=# | ;f+:s[lts jftfj/0f | !& |
| #=$ | h}ljs jftfj/0f | !\* |
| efu $ M k|:tfjsf] ljsNk ljZn]if0f | | @& |
| $=! | k|:tfjsf] ljsNk ljZn]if0f | @& |
| $=@ | ljsNkx? | @& |
| $=# | ljsNkx?sf] jftfj/0fLo k|efjsf] t'ngfTds k|efjsf] ljZn]if0f | @\* |
| $=$ | ljsNkx?sf] cg's'n jftfj/0fLo k|efjx?sf] t'ngfTds ljZn]if0f | #@ |
| $=% | ljsNkx?sf] k|lts'n jftfj/0fLo k|efjx?sf] t'ngfTds ljZn]if0f | #$ |
| efu % M jftfj/0fLo k|efjsf] klxrfg tyf ;+/If0fsf pkfox? | | #( |
| %=! | jftfj/0fLo k|efjsf] klxrfg / Go"lgs/0fsf pkfox? | #( |
| %=@ | k|:tfj sfof{Gjogaf6 kg]{ cg's'n k|efjx? | #( |
| %=# | cg's'n k|efjnfO{ clwstd ug]{ pkfox? | $) |
| %=$ | k|:tfj sfof{Gjogaf6 kg]{ k|lts'n k|efjx? | $! |
| %=% | k|:tfj sfof{Gjogaf6 kg]{ k|lts'n k|efjx?sf] Go"gLs/0fsf pkfox? | $@ |
| %=^ | k|lts'n k|efjx? Go'gLs/0f ug{ nfUg] cg'dflgt ah]6 | $# |
| %=& | jftfj/0f ;+/If0fsf pkfox?sf] sfof{Gjog | $$ |
| efu ^ M jftfj/0fLo cg'udg | | $% |
| ^=! | jftj/0fLo cg'udg | $% |
| ^=@ | cg'udgsf ;'rsx?, cg'udg ;do tflnsf, ljlw / cg'udg ug]{ lgsfo | $% |
| ^=# | jftfj/0fLo cg'udgsf] nflu ah]6sf] Joj:yf | $^ |
| efu & M lgZsif{ / l;kmfl/; | | $& |
| &=! | lgZsif{ / l;kmfl/; | $& |
| efu \* M ;Gbe{ ;fdflu|x? | | $\* |

**cg';'lrx?**

cg';'rL ! M kj{t lhNnfdf jg k}bfjf/ dfu / cfk'lt{sf] cj:yf

cg';'rL @ Mu}/sfi7 jg k}bfjf/ lj?jfx?sf] jflif{s ;+sngof]Uo kl/df0f (Annual Allowable Harvest) ;DaGwL ljj/0f

cg';'rL # M k|f/lDes jftfj/0fLo kl/If0f cWoogsf] nflu k|:tfj sfof{Gjg x'+bf k|efljt x'g] :yflgo jfl;Gbf ;Fu u/]sf] 3/w'/L ;e]{If0f

cg';'lr $ M kj{tdf u}xsfi7 jg k}bfjf/ kfOg] If]q

**cWofo !**

**k|:tfljt k|f/lDes jftfj/0fLo kl/If0f k|ltj]bg**

**s= k|ltj]bg tof/ ug]{ JolQm jf ;+:yfsf] gfd / 7]ufgf**

**!= k|:tfjsf] gfd**

kj{t lhNnfsf] ! gu/kflnsf / $& uf=lj=;=x? sf jgIf]qdf d'Vo ?kdf kfOg] ljleGg jg k}bfjf/x?sf] x}l;otdf x|f; gcfpg] ul/ ;+sng tyf ;b'kof]u ug{ kfFr jifL{o ;b'kof]u sfo{of]hgf tof/ ul/ sfof{Gjog ug'{ k"j{ jftfj/0f ;+/If0f lgodfjnL -;+zf]wg ;lxt\_ @)%$ sf] lgod # ;Fu ;DalGwt cg';"lr !-c\_sf] !) df ePsf]] Joj:yf / ;f] sf] l:js[t sfo{;"lr cg';f/ k|f/lDes jftfj/0fLo kl/If0f k|ltj]bg l:js[tsf nflu k|:tfj ul/Psf] 5 .

**@= k|:tfjssf] gfd / 7]ufgf**

o; k|:tfjsf] k|:tfjs g]kfn ;/sf/ jg tyf e";+/If0f dGqfno, jg ljefu, lhNnf jg sfof{no kj{t xf] . of] k|f/lDes jftfj/0fLo kl/If0f k|ltj]bg lhNnf jg sfof{no kj{t lhNnf jg clws[t >L ;Gtdfof >]i7sf] ;+of]hsTjdf ;Dk"0f{ Field Pj+ sfof{nodf sfo{/t ;=j=c=, /]Gh/ ;d]tsf sd{rf/Lx?sf] ;+nUgtfdf tof/ kfl/Psf] xf] . k|:tfjs sfof{nosf] ;Dks{ 7]ufgf lhNnf jg sfof{no, kj{t s'Zdf /x]sf] 5 . ;Dks{ 6]lnkmf]g g+=)^& –$@)!#%-sfof{no\_ /x]sf] 5 .

**v= k|ltj]bgsf] ;f/f+z (Executive Summary)**

**!=e"ldsf / k[i7e"ld (Background)**

dfga lhjgsf] z'?jft g} jg / jg k}bfjf/df cfwfl/t /x]sf] kfOG5 . dfgj ljsf; / hg;+Vof j[l4sf sf/0f 36\bf] jg >f]tsf] lb3{sfnLg pkef]usf nflu ljleGg of]hgfx? aGb} cfpg] qmddf dfgj ljsf;sf] kl5Nnf] r/0fdf g]kfndf klg jg If]qsf] lbuf] Joj:yfkgsf y'k|} of]hgfx? ag]sf kfO{G5g\ . lbg k|ltlbg a9\bf] hg;+Vofsf] sf/0fn] x'g uPsf] jg ljgf;, cltqmd0f tyf jg k}bfjf/x?sf] cj}w rf]/L lgsf;L tyf j+z ljgf; x'g] ul/ ;+sng ug]{ sfo{nfO{ lgoGq0f ul/ jg ;+/If0f / ljsf;sf] ;fy} jg tyf jg:kltx?sf] ljsf;sf] nflu jg ljsf; u'? of]hgf @)$^ d'Vo of]hgfsf] ?kdf lng ;lsG5 . o;sf] p4]Zo cg'?k j}1flgs lx;faaf6 sfo{qmd ;~rfng ul/ of] k|:t't ul/Psf] k|ltj]bg cg'?k sfo{ ug{ ;lsPdf :yflgo hgtfsf] b}lgs cfwf/e"t cfjZostf kl/k"lt{ ug'{sf] ;fy} cfo cfh{gsf] cj;/ ;[hgf e} hgtfsf] cfly{s ;fdflhs tyf ;f+:s[lts kIfsf] lbuf] ljsf;df 6]jf k'Ug] / jftfj/0f klg ;+/If0f x'g] b]lvG5 . k|fs[lts ;|f]t Pp6f cljlR5Gg >f]t xf], ct M k|s[lt ;Fusf] gftf klg cljlR5Gg /xG5 . o;} ;Gbe{df /fHo4f/f hfl/ ul/Psf ljleGg P]g, sfg"gx? dWo] jg P]g @)$( sf] bkmf @) df ;/sf/4f/f Jojl:yt jgx?df jg Joj:yfkg sfo{of]hgf tof/ ul/ nfu' ug'{ kg]{ / jg lgodfjnL @)%! sf] lgod #,$,%,/ ^ df To; ;DaGwdf ug'{kg]{ Joj:yf ;DaGwdf :ki6 kf/]sf] kfO{G5, eg] jftfj/0f ;+/If0f P]g @)%# sf] bkmf # / $ df IEE / EIA ug'{kg]{ k|:tfjx? / k|:tfj l:js[t gu/fO{ sfof{Gjog ug{ gx'g] Joj:yf ul/ To;nfO{ jftfj/0f ;+/If0f lgodfjnL @)%$ sf] lgod # ;Fu ;DalGwt cg';"lr !-c\_ sf] !) df Joj:yf eP cg';f/ tof/ ul/ jg ljefuaf6 ldlt @)^(÷)&÷@^ df l:js[t sfo{;"lr adf]lhd kj{t lhNnfdf kfFr jifL{o [-@)&@.](mailto:-@)%5e(.&)))&# b]lv @)&^.)&& ;Dd\_ jg k}bfjf/ ;b'kof]u ul/ sfof{Gjog ug]{ sfo{of]hgfsf nflu ;f]sf] of] k|f/lDes jftfj/0fLo kl/If0f (IEE) k|ltj]bg tof/ ul/ k|:tfj ul/Psf] 5 .

o; k|ltj]bg cg';f/ sfd ug'{kbf{ jftfj/0fdf kg{ hfg] gsf/fTds tyf ;sf/fTds b'j} lsl;dsf kIfx?sf] z'Id ljZn]if0f ul/ e"Ifodf j[l4, ls/f km6\ofª\u|fx? tyf jGohGt'sf af;:yfgdf sdL cflb h:tf gsf/fTds k|efjx?sf] Go"lgs/0fsf pkfox? cjnDag ug'{sf ;fy} ;sf/fTds k|efjx? clwstd ug]{ sfo{qmd nfu' ul/g] ePsf]n] o;af6 jftfj/0fdf ;sf/fTds c;/ kg{ hfg]5 . ;fy} of] k|ltj]bg cg';f/ sfd ePdf k|fs[lts, jftfj/0fLko nufot ljljw h}ljs kIfdf ;d]t ;sf/fTds c;/ kg]{ 5 .

ljleGg lsl;dsf jg k}bfjf/sf] j}1flgs Joj:yfkg / ;b'kof]u x'g hfg] / jftfj/0fLo kIfx?df ;d]t ;sf/fTds c;/ kg'{sf ;fy} :yflgo / /fli6|o cy{tGqdf ;d]t j[l4 x'g hfg] ePsf]n] of] k|:tfj sfof{Gjogaf6 Jojl:yt ?kdf jg k}bfjf/x? -sf7, bfp/f, hl8a'6L, 9'Ëf, lu6L, jfn'jf / cGo n3' jg k}bfjf/x? ;d]t\_ sf] ;+sng tyf ljqmL dxTjk"0f{ / ;fGble{s /x]sf] 5 .

**@= k|f/lDes jftfj/0fLo kl/If0f k|ltj]bgsf p4]Zox?**

* jg k}bfjf/x? -sf7, bfp/f, hl8a'6L, 9'Ëf, lu6L, jfn'jf / cGo n3' jg k}bfjf/x? ;d]t\_ lb3{sfnLg ?kdf ;+sng ug]{ .
* k|lts'n c;/x? Go"lgs/0fsf pkfox? cjnDag ug]{ .
* h}ljs, ef}lts, cfly{s ;fdflhs / kfl/l:yltsLo ljifox?sf] tYofÍ ;+sng ul/ k|:tfljt If]qdf kg]{ gsf/fTds / ;sf/fTds k|efjx?sf] klxrfg ug]{ .
* k|lts"n c;/nfO{ Go"lgs/0f ug]{ / cg's'n k|efjnfO{ clwstd ug]{ pkfox?sf] cjnDag ug{ ;'emfa lbg] .
* ;Dk"0f{ k|efjx?sf] cg'udgsf nflu cg'udg ljlw to ug]{ .
* lg0f{ostf{nfO{ k|:tfj sfof{Gjogaf6 jftfj/0fdf kg{ ;Sg] c;/x? ;DaGwdf hfgsf/L u/fO{ plrt lg0f{odf k'Ug ;xof]u k'¥ofpg] .
* k|f/lDes jftfj/0fLo kl/If0f k|ltj]bg tof/ ul/ jg P]g, lgod tyf jftfj/0f ;+/If0f P]g, lgod tyf l:js[t sfo{;"rL adf]lhd sfof{Gjog ug]{ .

**#= ;fdfGo kl/ro**

o; lhNnfsf] ef}uf]lns jgfj6 x]bf{ kxf8L pi0f If]q b]lv pRr kxf8L efu;Dd ;d]l6Psf] sf/0f h}ljs ljljwtfsf] b[li6sf]0fn] lgs} wlg dfGg ;lsG5 / o; lhNnfdf k|fo klZrdf~rn If]qdf kfO{g] ;a} lsl;dsf lhjhGt' / jg:kltx? kfOg] ub{5g\ .

**tflnsf g+=!** kj{t lhNnf / k|:tfj sfof{Gjog x'g] If]qsf] If]qkmn tyf hg;+Vof ljj/0f

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **If]q** | **If]qkmn**  **-ju{ ls=dL=\_** | **kl/jf/ ;+Vof** | **3/w'/L ;+Vof** | **hg;+Vof** | | |
| **dlxnf** | **k'?if** | **hDdf** |
| kj{t lhNnf | %#^=\*^ | #%&!( | #!%@& | \*!@\*( | ^%#)! | !$^%() |

**tflnsf g+=@** lhNnfsf] e" pkof]usf] l:ylt ljj/0f

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| k|of]u | v]t | kfvf] | jgh+un | 3/,afemf], cGo | hDdf |
| lhNnfsf] hDdf | ()@! | !%!%) | !(((& | (%!\*=@! | %#^\*^ |
| k|ltzt | !^=\* | @\*=@@ | #&=@% | !&=&@(# | !)) |

kj{t lhNnfdf ! gu/kflnsf / $& uf=lj=;=x? 5g\ . lt uf=lj=;=x?df kfFr jifL{o sfo{of]hgf nfu" ug{nfO{ of] k|:tfj ul/Psf] 5 . d'Vo ?kdf o; lhNnfdf ;fn, c:gf, x/f]{, a/f]{, l;dn, ;fbg, af]emf], ef]nf{sf]kft, s'l/nf], sfpnf], kfjg, t]hkft, bfnlrgL, cdnf, jgxlNb, vf]6];Nnf, afFem, v;|'{, nfnLu'/f;, cf]v/, kfFu/, plQ;, s6';, d]n cflb k|hfltx? kfO{G5g\ . o; If]qdf ‰ofp, kfif0fj]b, l6d'/, r'qf], ltt]kftL, lhjGtL, ;'uGwjfn, lr/fOtf], nf]Qmf, ljifh/f l/7f, cdnf, sfpnf], nf}7;Nnf cflb hl8a'6Lx? kfO{G5g\ . To;} ul/ o; If]qsf sfnLu08sL, df]bL glb cflbdf 9'Ëf, lul6, jfn'jfsf d'Vo >f]tsf] ?kdf /x]sf 5g\ .

**$= k|ltj]bg tof/ ubf{ ckgfO{Psf cWoog ljlwx?**

jftfj/0f ;+/If0f P]g @)%# / lgodfjnL @)%$ df Joj:yf ePsf k|lqmofx? cg';/0f ul/ o; k|:tfjsf] jftfj/0fLo kIfsf] cWoog ul/Psf] 5 . ;j{k|yd k|f/lDes jftfj/0fLo kl/If0f k|ltj]bgsf] qmddf ldlt @)&!.)@.)% ut]sf] ;xf/f /fli6|o b}lgs klqsfdf ;fj{hlgs ;"rgf 6fF; ul/ k|:tfj sfof{Gjogaf6 jftfj/0fdf kg{ ;Sg] k|efjx?sf] af/]df :ynut /fo ;'emfj lbg dfu ul/Psf] lyof] . pQm ;"rgfsf] cfwf/df k|fKt /fo ;'emfj tyf o; lhNnfsf] k|fo jg If]qsf] :ynut lgl/If0f e|d0f ul/ pQm e|d0faf6 k|fKt hfgsf/L / jg ljefuaf6 l:js[t sfo{;"rL ;d]tsf] cfwf/df of] k|f/lDes jftfj/0fLo kl/If0f k|ltj]bg tof/ ul/Psf] xf] . k|ltj]bg tof/ kfg{ k|yd tyf bf]>f] r/0fsf] hfgsf/L qmdzM lkmN8sf] cWoog tyf tYof+s ;+sng / ;Gbe{ u|Gyx?sf] k'g/fjnf]sgaf6 k|fKt ul/Psf] lyof] . ef}lts / h}ljs jftfj/0f ;DalGw tYof+sx?, jgIf]qsf] cjnf]sg :ynut ;e]{If0f tyf ;fdflhs cfly{s jftfj/0fLo ;DalGw ljj/0f, 3/w'/L ;e]{If0f tyf ;xeflutfd"ns u|fdL0f n]vfhf]vf / jg k}bfjf/ -n3' jg k}bfjf/ ;d]t\_sf] >f]t ;e]{If0f4f/f Pj+ bf]>f] r/0fsf] hfgsf/Lx? ljleGg lsl;dsf k':tsx?, ;Gbe{ ;fdfu|L . u|Gyx? sfof{nosf clen]vx? ljutsf] jg ;b'kof]u sfo{of]hgf tyf j}1flgs cg';GwfgfTds n]vaf6 pknAw ePsf] lyof] .

**%= k|:tfj;Fu ;DalGwt lglt lgod, P]g, sfg'g, lgodfjnL, lgb]{lzsfx?**

jg If]qdf /x]sf jg k}bfjf/sf] Jojl:yt / j}1flgs Joj:yfkg tyf ;b'kof]usf nflu d'Vo b:tfj]hsf] ?kdf jftfj/0f ;+/If0f P]g @)%# / jftfj/0f ;+/If0f lgodfjnL @)%$ adf]lhd k|f/lDes jftfj/0fLo kl/If0fsf] sfo{ k|lqmof z'? ul/Psf] xf] . jt{dfg jg ;DalGw lgltx?df jg gLlt @)&!, jg ljsf; u'?of]hgf @)$^, jg P]g @)$( / jg lgodfjnL @)%!, hl8a'l6 tyf u}/sfi7 jg k}bfjf/ ljsf; gLlt @)^!, /fli6|o lgs'~h tyf jGohGt' ;+/If0f P]g @)@(, e" tyf hnfwf/ ;+/If0f P]g @)#( tyf lgodfjnL @)$@, /fli6|o jftfj/0fLo k|efj d'Nof+sg lgb]{lzsf @)%), k|f/lDes jftfj/0fLo kl/If0fsf] sfo{;"lr tyf k|ltj]bgsf] lbUbz{g @)^!, jg k}bfjf/ -sf7 *.* bfp/f\_ ;+sng tyf ljqmL lgb]{lzsf @)%& / jg k}bfjf/ ljqmL ljt/0f lgb]{lzsf @)^), jg If]qsf] hUuf cGo k|of]hgsf nflu pknAw u/fpg] ;DalGw sfo{ljlw @)^# / o:t} k|s[ltsf ljleGg /fli6|o tyf cGt/fli6|o ;lGw, dxf;lGwx?df ePdf sfg"gL, lgltut / k|ltj4tfut Joj:yfx?sf] cWoog ul/Psf] lyof] .

**^= jt{dfg jftfj/0fLo cj:yf**

of] k|:tfj sfof{Gjog x'g] If]q kj{t lhNnfsf] %@) dL6/ b]lv ##)) ld6/ -;]tLj]gL b]lv e'stfª\n]sf] hnhnfsf] n]s\_ km}lnPsf] 5 . o; If]qsf] jftfj/0fLo cj:yfsf] k|f/lDes tyf cfwf/e"t tYof+sx? ;+sng ul/ ljZn]if0f ul/Psf] 5 .

**s\_ ef}lts jftfj/0f**

kj{t lhNnfsf] ! g=kf=/ $& j6} uf=lj=;=sf jg If]qx? tyf jg If]q eP/ hfg] af6f]3f6f], vf]nfgfnf, jg If]qdf /x]sf df6f]x? tyf kflgd'xfgx? k|:tfjsf] ef}lts jftfj/0f cGtu{t kb{5g\ .

**v\_ h}ljs jftfj/0f**

k|:tfj sfof{Gjog x'g] If]qsf] If]qkmn !(((& x]= /x]sf] 5 / kj{t lhNnfsf] ! g=kf= / $& uf=lj=;=df /x]sf jg If]qsf jg:klt tyf jGohGt'x? h}ljs jftfj/0f cGtu{t kb{5g\ . d'Vo ul/ jg:kltdf ;fn, ;Nnf, lrnfpg], plQ;, s6';, afFem, v;|'{ cflb sfi7hGo tyf cdnf, cNnf], bfnlrgL, nf]Qmf, cu]{nL, s'l/nf], l6d'/, l/7f, nK;L, kfif0fe]b, cflb u}/sfi7 jgk}bfjf/df kb{5g\ . o;}ul/ jGohGt'x?df sflnh, ltqf, :ofn, afFb/, efn', lu4, ljljw k|sf/sf k'tnL, lrt'jf cflb kb{5g\ .

**u\_ ;fdflhs, ;fF:s[lts tyf cfly{s jftfj/0f**

;fdflhs ?kdf ljleGg hfthfltx? h:t} a|fXd0f, If]qL g]jf/, blnt, du/, u'?ª cflb 5g\ eg] lt hfthfltx?sf] cf cfˆg} l/ltl/jfh cg';f/ ;fF:s[lts k/Dk/f 5 . cfly{s ?kdf d'Voul/ s[lifk]zf g} cu|;/ 5 eg] Jofkf/, pBf]u cflb Go"g ?kdf /x]sf] kfOG5 . o; lhNnfsf] ;fIf/tfnfO{ x]bf{ \*# k|ltzt 5 eg] jflif{s k|lt JolQm cfo @@$ -cd]l/sL 8n/\_ 5 / #$=! k|ltzt 3/kl/jf/ ul/aLsf] /]vfd'lg /x]sf 5g\ .

**&= ;Defljt jftfj/0fLo k|efj / Go"lgs/0fsf pkfox?**

o; k|:tfj sfof{Gjog kZrft :yflgo tyf afX\o jgdf cfwfl/t pBf]ux?nfO{ sRrf kbfy{ pknAw u/fpg' tyf :yflgo pkef]Qmfsf] b}lgs cfjZostf k"lt{ ul/ :yflgo :t/df /f]huf/Lsf] cj;/ ;[hgf ug'{ / jgnfO{ ;ttM ?kdf pTkfbglzn jgfpg ljljw k|fljlws sfo{x? sfof{Gjogdf Nofpg' xf] . e"Ifodf sdL cfpg', s[lif pTkfbgdf a[l4 x'g', kfgLsf] d'xfg ;+/If0f Pj+ a[l4 u/fpg', jGohGt'sf] jf;:yfgnfO{ ;+/If0f ug'{, ;a} k|sf/sf lhj tyf jg:kltsf] ;+/If0fdf 6]jf k'/fO h}ljs ljljwtfdf ;+/If0f ug'{ g} o; k|:tfjssf ;s/fTds jftfj/0fLo k|efjx? x'g eg] sfo{of]hgf l:js[tL kZrft sfof{Gjog ug]{ sfo{qmdn] kfg{ ;Sg] gs/fTds k|efjx?nfO{ Go"lgs/0f ug]{ pkfox?nfO{ ;d]t o; k|:tfjdf ul/Psf] 5 h;n] ubf{ gs/fTds eGbf ;s/fTds k|efjx? lbuf] /xg] x'G5 .

**\*= cg's'n k|efjnfO{ clwstd ug]{ pkfox?**

k|:tfj sfof{Gjog4f/f kg{;Sg] cg's'n k|efjx?nfO{ clwstd ug{sf] nflu sfo{qmd th'{df ul/Psf] 5 . :yflgo dlxnf, ul/a, ljkGg ju{ tyf lk5l8Psf tyf k5fl8 kfl/Psf ju{nfO{ k|fljlws 1fg l;k x:tfGt/0f u/L jg k}bfjf/ ;+sng tyf k|;f]wgdf cufl8 ;f/]/ jftfj/0fLo ?kdf cg's'n k|efjx?nfO{ clwstd ug]{ pkfox? cjnDag ul/g] 5 .

**(= k|efj Go"lgs/0fsf pkfo / sfo{qmdx?**

k|:tfj sfof{Gjog4f/f kg{;Sg] / k|lts"n k|efjx?nfO{ Go"lgs/0f ug{sf] nflu sfo{qmd th'{df ul/Psf] 5 . :yflgo pkef]Qmfsf] l;k ljsf; ul/ clwstd /f]huf/Lsf] ;[hgf ug]{ tyf afof]OlGhlgol/ª k4tL ckgfO{ e" tyf hnfwf/ ;+/If0f sfo{df 6]jf k'/fpg] sfo{qmdx? k|:tfj ul/Psf] 5 .

**!)= jftfj/0f Joj:yfkg / cg'udg sfo**{x?

cg's'n k|efjnfO{ k|f]T;fxg ug]{ / k|lts"n k|efjx?nfO{ lg?T;flxt ug{ pkef]Qmf tyf sfo{qmd sfof{Gjog :t/df g} :jd'Nof+sg k4tLnfO{ k|fyldstf lbOg] 5 tyf sfof{Gjog ;dodf g} Onfsf jg sfof{no tyf lhNnf jg sfof{noaf6 cg'udg ul/ gs/fTds k|efjnfO{ 36fpg] pkfo cjnDag ul/g] 5 . kfFrjlif{o sfo{of]hgfsf sfo{qmdsf] k|efj d'Nof+sg ug{ sfof{Gjog kZrft lkmN8:t/sf k|fljlwsn] k|efjsf] ljZn]if0f ul/ x/]s dlxgf k|efjsf] k|ltj]bg tof/ ul/ k|lts'n k|efjnfO{ Go"lgs/0f ul/ cg's'n k|efjsf] jftfj/0f ldnfpg] Joj:yf ul/g] 5 .

**!!= pk;+xf/**

o; k|:tfjsf] sfof{Gjogaf6 jftfj/0fdf kg]{ k|lts"n k|efjx?sf] cGoGt Go"g /x]sf] / cg's'n efjx? pRr /x]sf] b]lvg'sf] ;fy} s]lx dfqfdf /x]sf k|lts"n k|efjx?nfO{ Go"gLs/0f ug]{ pkfox? cjnDag ul/ ltgLx?nfO{ sd ug{ ;lsg] k|:tfjsf] k|f/lDes jftfj/0fLo kl/If0faf6 b]lvPsfn] o; k|:tfjsf] sfof{Gjog ug{sf nflu k|:tfj ul/Psf] 5 .

**cWofo @**

**k|f/lDes jftfj/0fLo k/LIf0fsf] clGtd k|ltj]bg**

**efu !**

**kl/ro** (Introduction)

**k|:tfjsf] ;fdfGo kl/ro**

kj{t lhNnf zfl:qo k|df0fsf] cfwf/df hutdftf kfj{tLsf] hGd:yfg /x]sf] klZrdf~rn ljsf; If]q cGt/utsf] Ps kxf8L lhNnf xf] . ;d'Gb| ;tx b]lv %@) dL= -;]tLa]gL\_ b]lv ##)) dL= -e's\_ prfOdf /x]sf] 5 . kj{t lhNnfn] g]kfnsf] If]qkmnsf] )=## k|ltzt / hg;+Vofsf] )=^\* k|ltzt c+z cf]u6]sf] 5 . dfgj ljsf; k|ltj]bg @))$ cg';f/ kj{t lhNnfsf] cf}ift cfo' ^%=&^ jif{, ;fIf/tf %!=@ / u/Lljsf] /]vfd'gL 3/kl/jf/ #$=! k|ltzt /x]sf 5g\ .

o; lhNnfsf] jgsf] tYof+snfO{ x]bf{ #&=@$ k|ltzt jg !(((& x]= /x]sf] 5 eg] !#\*%) x]= Reachable Forest sf] ?kdf 5 . o; lhNnfdf Sub-tropical b]lv Subalpine Forest sf] k|sf/ ;Dd kfOG5 . ;fn, lrnfpg]sf] sfi7hGo ?v k|hftL b]lv l7u|]+ ;Nnfsf] jg ;Dd / s'/Lnf] cdnf b]lv nf}7 ;Nnf;Ddsf u}x|sfi7hGo jg:ktLx? kfOG5g\ oLg} h}ljs ljljwtfsf] kx'Fr ePsf] o; lhNnfsf] ;a} jg If]qsf] lb3{sfnLg Joj:yfkg ug{nfO{ kfFrjlif{o sfo{of]hgf tof/ u/L sfof{Gjog ug'{ k"j{ jftfj/0f ;+/If0f lgdfjnL @)%$ sf] lgod # ;DalGwt cg';"rL ! sf] -c\_ !) cg';f/ of] k|f/lDes jftfj/0fLo kl/If0f k|ltj]bg tof/ u/L k|:tfj ul/Psf] 5 .

**s\_ e'ldsf**

tLg jlif{o cGtl/d of]hgfdf jg ;Dkbfsf] lbuf] Joj:yfkg u/L u/Llj Go"lgs/0fdf 6]jf k'¥ofpg] nIo cg'?k o; lhNnfdf kfOg] ;Dk"0f{ jg hGo >f]tnfO{ oxfFsf hgtfx?sf] cfly{s ljsf;df 6]jf k'Ug] u/L sfo{qmd agfpg' cfhsf] 68\sf/f] cfjZostf 5 . :yfgLo hgtfsf] b}lgs cfjZostf k"tL{ ub}{ :yflgo tyf afx\o jg pBf]uLx?sf] sRrf kbfy{sf] cfjZostfsf] k"tL{ ug'{ klg k|:tfljt kfFr jlif{o sfo{of]hgfsf] sfo{qmd /xg] 5 . v]/ uO/x]sf sfi7 Pj+ u}/sfi7 jg k}bfjf/sf] clwstd pkof]u u/L jgnfO{ j}1flgs Joj:yfkg u/]/ jgsf] >f]tnfO{ lbuf] ?kdf pTkfbglzn agfpg' o; k|:tfjsf] sfof{Gjog kIf x'g] 5 .

**v\_ k|:tfj, k|ltj]bg tof/ ug]{ ;+:yfsf] gfd / 7]ufgf**

o; k|:tfjsf] k|:tfjs g]kfn ;/sf/, jg tyf e"–;+/If0f dGqfno, jg ljefu, lhNnf jg sfof{no kj{t xf] . of] k|ltj]bg lhNnf jg sfof{no kj{tsf tTsflng lhNnf jg clws[t >L ;fGtdfof >]i7 tyf xfnsf lhNnf jg clws[t >L s[i0f k|;fb 9sfnsf] ;+of]hsTjdf ;Dk"0f{ lkmN8 Pj+ sfof{nodf sfo{/t ;=j=c÷/]~h/ ;d]tsf sd{rf/Lx?sf] ;xof]u Pj+ ;+nUgtfdf tof/ kfl/Psf] xf] . sfo{fnosf] ;Dks{ 7]ufgf lhNnf jg sfof{no, s'Zdf, kj{t / ;Dks{ 6]lnkmf]g g++=– )^&–$@)!#% /x]sf] 5 . k|:tfjsn] cfjZostf cg';f/ ;DalGwt ;/f]sf/jfnfx?sf] ;dt /fo ;'emfj Pj+ ;xof]u lnO k|f/lDes jftfj/0fLo kl/If0fsf] clGtd k|ltj]bg tof/ u/L :jLs[ltsf] nflu jg ljefu aa/dxndf k]z u/]sf] 5 .

**u\_ k|:tfjsf] ljj/0f**

**!= k|:tfljt sfo{qmdsf] ljj/0f**

o; lhNnfdf /x]sf] !(((& x]= jg If]qdf ljljw sfi7 Pj+ u}/sfi7 jg k}bfjf/x?sf] ;b'kof]u ug{sf nflu cf=j= @)&@.&# b]lv @)&^.&& ;Ddsf] k~rjlif{o jg Joj:yfkg sfo{of]hgf tof/ ul/Psf] 5 . o; k~rjlif{o cjlwdf ;+sng ug{ ;lsg] jg k}bfjf/x?sf] ljj/0f cg';'lrdf pNn]v ul/Psf] 5 .

**@= k|:tfljt sfo{qmdsf] of]hgf**

;/sf/åf/f Jojl:yt jgaf6 :yflgo pkef]Qmfx?sf] b}lgs cfjZostf k"lt{ u/L jg pBdLx?sf] sRrf kbfy{sf] dfunfO{ Jojl:yt ug{ / jgsf] lbuf] Joj:yfkg ug{ ;a} uf=lj=;= x?af6 ul/Psf] ;e]{If0f cg';f/ sf7, bfp/f, hl8a'6L tyf u}x|sfi7 jg k}bfjf/ ;+sng tyf ljqmL ljt/0f ;DalGw of]hgf o;} k|ltj]bgsf] cg';'lr ! / @ df tyf cfufld kfFr jif{sf nflu sfof{Gjog u/Lg] k|:tfljt sfo{of]hgfdf ;dfj]z ul/Psf] 5 ;fy} o; lhNnfdf ;fd'bflos jgsf] ?kdf x:tfGtl/t jgaf6 d'Vo ?kdf ;+sng tyf ljqmLljt/0f x'g ;Sg] hl8a'6L tyf u}x|sfi7 jg k}bfj/x?sf] xsdf ;DalGwt ;fd'bflos jgsf] :jLs[t sfo{of]hgfdf pNn]v eP adf]lhd x'g] 5 . vf6f] sf] ;DaGwdf ;/sf/åf/f Joj:yLt jgaf6 ;+sng ul/g] 5}g eg] ;fd'bflos jgsf] ;Gbe{df :jLs[t sfo{of]hgf adf]lhd k|f/lDes jftfj/0fLo kl/If0f k|ltj]bg :jLs[t u/fO{ ;+sng ul/g] 5 . 9'+uf, lul§, jfn'jfsf] ;DaGwdf ;DalGwt If]qsf] k|f/lDes jftfj/0fLo kl/If0f k|ltjb]g ;DalGwt lgsfoaf6 :jLs[t u/fO{ lgodfg';f/ ;+sng tyf ljlqmljt/0f ug]{ u/fOg] 5 .

**#= k|:tfljt sfo{qmdsf] sfo{lgtLx?**

k|:tfljt sfo{of]hgfdf pNn]lvt sfo{qmdx? sfof{Gjog ug{ lgDg adf]lhdsf sfo{lgltx? canDag ul/g] 5 / kfFr jlif{o sfo{of]hgf l:js[tL eP kZrft dfq sfof{Gjog ul/g] 5 .

* v08 ljefhg u/L 3'DtL rqm (Rotational Basis) df jg k}bfj/ ;+sng ug{ u/fOg] 5 .
* lbuf] jg Joj:yfkgsf] sfo{lgtL ckgfOg] 5 .
* jg Joj:yfkgsf j}1flgs sfo{x? canDag u/Lg] 5 .
* ;+j]bgzLn If]qx?nfO{ k"0f{ ;+/lIft If]qsf] ?kdf ljsf; u/Lg] 5 .
* ;+sng sfo{ ubf{ jt{dfg lgltlgodsf] k"0f{ kfngf ul/g] 5 .
* dxTjk"0f{ k|hftLx?sf] ;+/If0f / ljsf;sf nflu 5'6\6} of]hgf tof/ u/L nfu' ul/g] 5 .

**$= k|:tfjsf] p2]Zox?**

o; k|:tfjsf] p2]Zox? d'Vo ?kdf lgDgfg';f/ /x]sf 5g\ .

* lhNnf leqsf ;a} vfn] jg If]qsf] lbuf] jg Joj:yfkgsf] cjwf/0ff cjnDag u/L ;d"lrt ?kdf ;+/If0f, ;Da4{g / ;b'kof]u ug]{ .
* jg k}bfjf/sf] ;+sng tyf ljlqm ljt/0f ubf{ jftfj/0fdf kg]{ k|lts'n c;/nfO{ Go"lgs/0f ub}{ jftfj/0fLo ;Gt'ng sfod /fVg] .
* jgdf cfwfl/t pBf]u tyf ;j{;fwf/0fx?nfO{ ;/nLs[t ?kdf sRrf kbfy{x? pknAw u/fpg] .
* :yflgo:t/df jg pBdx?sf] :yfkgf u/L /f]huf/Lsf] cj:yf ;[hgf ug]{ .
* h}ljs ljljwtfsf] ;+/If0f tyf ;Da4{g ub}{ u/Llj lgjf/0fdf 6]jf k'Ug] vfnsf lqmofsnfk ug]{ .
* lj?jf pTkfbg tyf ljt/0f / vfnL :yfgdf j[Iff/f]k0f u/L jftfj/0fLo ;Gt'ng sfod /fVg] .

**%= k|:tfj sfof{Gjog x'g] If]q, ;do / cjlw**

sfi7 Pj+ u}/sfi7 hGo jg k}bfjf/ ;+sng tyf ;Da4{gsf nflu kj{t lhNnfsf] ! gu/kflnsf / $& j6} uf=lj=;= leqsf ;/sf/4f/f Jojl:yt, ;fd'bflos tyf lglhjgx? o; k|:tfjsf] sfof{Gjog If]q x'g] 5g\ . of] k|:tfjsf] cjlw **cf=j= @)&@÷)&# b]lv @)&^÷)&&** ;Dd x'g]5 .

**^= jg k}bfjf/ ;+sng Joj:yfkg sfo{ k4tL**

kj{t lhNnfsf] cfufdL kfFr jif{sf nflu tof/ u/LPsf] jg ;b'kof]u sfo{of]hgfdf ;a} lsl;dsf /fli6«o jg If]qdf kfO{g] jg k}bfjf/x?sf] ;+/If0f, ;Da4{g / Joj:yfkg u/L ;d'lrt ;b'kof]usf nflu Joj:yfkg sfo{k4tL nfu' u/Lg] 5 . cfufld k~rjlif{o sfo{of]hgfsf] cjwLdf ;/sf/åf/f JojZyLt jgaf6 jg k}bfjf/ ;+sngsf] nflu l;km/L; ul/Psf] 5}g . ;+sng lgod lgb]{lzsf tyf ljljw kl/kqsf] k/Llwleq /lx k|fljlws ?kn] ;+sng ug{ of]Uo jg k}bfjf/x? dfq ;+sng tyf ;Da4{g ul/g] 5 .

**3\_ k|f/lDes jftfj/0fLo k/LIf0f k|ltj]bgsf p2]Zox?**

o; k|ltj]bgsf] d'Vo p2]Zo k|:tfj sfof{Gjog x'g] jg tyf cf;kf;sf If]qdf k|:tfj sfof{Gjogaf6 ef}lts, h}ljs, ;fdflhs, cfly{s / ;fF:s[lts jftfj/0fdf kg{ ;Sg] gs/fTds k|efjsf] klxrfg ug'{sf ;fy} tL k|efjx?sf] d"Nof+sg u/L Go"lgs/0fsf pkfox? cjnDag ug'{ xf] . o; k|ltj]bgsf d'Vo p2]Zox? lgDgfg';/ 5g\ .

* k|:tfljt sfo{qmd sfof{Gjogsf nflu cg'udg ljlw tof/ ug]{ .
* Sustainable harvesting ljlw sfof{Gjogsf nflu l;kmfl/; ug]{ .
* jftfj/0f ;+/If0f P]g, lgod tyf l:js[t sfo{;"rL cg';f/ k|f/lDes jftfj/0fLo k/LIf0f k|ltj]bg tof/ ug]{ .
* k|:tfj sfof{Gjog ubf{ k|lts'n k|efjx? Go"lgs/0fsf pkfox? cjnDag ug]{ .
* k|:tfljt If]qsf] h}ljs, ;fdflhs, cfly{s, ef}lts, ;fF:s[lts / kfl/l:ylso ljifox?sf] tYof+s ;+sng u/L To;df kg]{ ;sf/fTds / gs/fTds k|efjx?sf] klxrfg ug]{ .

**ª\_ k|ltj]bg tof/ ubf{ ckgfO{Psf] ljlw**

**!= cWoog k|s[of**

jftfj/0f ;+/If0f P]g @)%# tyf jftfj/0f ;+/If0f lgodfjnL @)%$ -;+;f]wg ;lxt\_ df Joj:yf ePsf k|s[ofx?sf] cg';/0f u/L jftfj/0fLo cj:yfsf] cWoog u/LPsf] lyof] . ;xf/f /fli6|o klqsfdf /fo ;'emfj ;+sngsf ;"rgf k|sfzg, ;a} :yflgo lgsfodf ;"rgf 6fF;, ljleGg jg If]qsf] :ynut cWoog e|d0f, jg ljefuaf6 sfo{;"lrsf] l:js[t cflbsf cfwf/df of] k|f/lDes jftfj/0fLo kl/If0f k|ltj]bg tof/ u/LPsf] xf] / ;"rgf, ;"rgf 6fF; d'r'Nsf, :yflgo lgsfosf] l;kmfl/; kq o;} k|ltj]bgsf] cg';"rL df ;dfj]z ul/Psf] 5 . k|ltj]bg tof/ kfg{ Primary and Secondary Data x? k|of]u ul/Psf] 5 .

**!=!= sfof{nodf ul/Psf cWoog**

o; lhNnf jg sfof{noaf6 ljut k|sflzt u/]sf ljljw ljifosf k|ltj]bg cWoog, cGo ;/f]sf/jfnfx?sf] k|ltj]bg, cg';Gwfg tyf vf]hd'ns k|ltj]bg, gS;fx?sf] cWoog, tyf k|ZgfjnL / r]slni6 tof/L sfo{ lhNnf jg sfof{nodf a;L cWoog tyf tof/L ul/Psf] lyof] .

**-s\_ ;Gbe{ ;fdfu|Lx?sf] k"g/fjnf]sg**

jg If]qsf] lbuf] / j}1flgs Joj:yfkg af/]df k|sflzt lnkmn]6, k':ts, k|ltj]bg / k|utL l/kf]6{x? cWoog u/L o; lhNnfdf /x]sf jg k}bfjf/sf] plrt Joj:yfkg sfo{k|0ffnL 5gf}6 u/L l;kmfl/; ul/Psf] 5 . o;} u/L jg / jftfj/0f;Fu ;DalGwt P]g, sfg'g, lgodfjnL, lgb]{lzsf, ljefluo kl/kq tyf lgb]{zg / cGt/fli6«o dxf;lGw, ;lGw, sfg'gL tyf lgtLut k|ltj4tf cflbnfO{ ;Gbe{ ;fdfu|Lsf] ?kdf k'g/fjnf]sg ul/Psf] lyof] . o;} u/L jg If]q ;Fu ;DalGwt ljifox? h:t} Silvicuture, Mensuration, Mannual of Afforestation, Forest Utillization and Others Forest based Published Materials x? k'g/fjnf]sg ul/Psf] lyof] .

**-v\_ gSzfx?sf] cWoog**

k|:tfj sfof{Gjog x'g] If]qsf] ef}uf]lns cj:yf ;fy} jg / jftfj/0fsf] hfgsf/Lsf nflu Topographic Map of Survey Department, Land Utilization Map of LRMP, Codastrial Map of Mentination Branch Partbat and GIS tools to allocate land cflb gSzfx? cWoog ul/Psf] lyof] .

**-u\_ r]slni6, 8f6flni6 / k|ZgfjnLsf] tof/L**

jftfj/0f ;+/If0f lgodfjnL @)%$ / jg If]qsf nflu k|f/lDes jftfj/0fLo kl/If0fsf] sfo{;"rL tyf k|ltj]bg lbUbz{g @)^! df pNn]v ePsf ;Dk"0f{ a'+bfx? ;dflji6 x'g] u/L cfjZostfg';f/ r]slni6 tyf k|ZgfjnL ljsf; ul/Psf] lyof] h;nfO{ o;} k|ltj]bgsf] cg';'rL df k|:t't u/LPsf] 5 .

**!=@= lkmN8df u/LPsf] cWoog**

**-s\_ h}ljs jftfj/0f ;DalGw tYof+s ;+sng sfo{**

o; sfo{df jg If]qdf /x]sf jg, jg:ktLsf] k|hftLx?sf] tYof+s lng'sf ;fy} jg If]qdf kfO{g] jGo hGt'x?sf] cjnf]sg u/L lni6Lª u/LPsf] lyof] . oL sfo{x? ubf{ k|:tfj sfof{Gjogaf6 :yflgo jfl;Gbfx?sf] /fo ;'emfj ;d]t lnOPsf] lyof] . Sound, Pillet, Pugmark, Antler, Feather, Transect etc. tl/sf ckgfO{ jGohGt'sf] lni6Lª u/LPsf] 5 eg] :yflgo jfl;Gbfsf] egfO{nfO{ cfwf/ dfg]/ df5fx?sf] tYof+s ;+sng ul/Psf] 5 .

**-v\_ ef}lts jftfj/0f ;DalGw tYof+s ;+sng sfo{**

lhNnfsf s]lx jg If]qx?nfO{ gd'gf jg dflg tL jg If]qx?df k|:tfj sfof{Gjog ubf{ To; If]qsf] df6f], afn'jf, r6\6fg, hnfwf/, e'Ifo, vf]nfgfnf, tfntn}of cfbLdf kg{;Sg] k|efjsf af/]df lkmN8 k|fljlws / :yflgo ;d'bfosf] ;+nUgtfdf ;+sng ul/Psf] lyof] .

**-u\_ ;fdflhs, cfly{s tyf ;fF:s[lts jftfj/0f ;DalGw tYof+s ;+sng sfo{**

o; sfo{sf nflu 3/w'/L ;e]{If0fsf (Household Survey) ;xeflud'ns n]vfhf]vf (PRA) tyf u|fld0f n]vfhf]vf (RRA) k|of]u u/LPsf] lyof] . ljleGg :yfgsf wd{, ;+:s[lt, k]zf, e':jldTj, lzIff, cfly{s l:ytL, l/ltl/jfh, d7dlGb/ tyf ko{6lso :ynx? cfbLnfO{ gd'gf dflg :ynut 8f6f ;+sng ul/Psf] lyof] .

**-3\_ sfi7 hGo tyf u}/sfi7 hGo k}bfjf/x?sf] >f]t ;e]{If0f**

jg k}bfjf/sf] >f]t ;e]{If0f ljNs'n} k|fljlws / dxTjk"0f{ ePsf]n] o; sfo{sf nflu w]/} xf]l;of/L ;fy tYof+s ;+sng u/LPsf] lyof] . pknAw hgzlQm tyf ;fwg >f]tnfO{ clwstd pkof]u u/L jf:tljstfdf k'Ug] k|of; u/LPsf] lyof] . >f]t ;e]{If0f b]xfosf] ljlw cg';f/ ul/Psf] lyof] .

* sfof{Gjog x'g] jg If]qsf] Topo Map Tracing ul/Psf] .
* ljljw k|sflzt jf ck|sflzt ;Gbe{;fdfu|Lsf] cWoog ul/Psf] .
* RRA ljlw åf/f If]q klxrfg ul/Psf] .
* d'Vo d'Vo sfi7 / u}/sfi7 hGo jg k}bfjf/ /x]sf] :yfgx?nfO{ Pocket Area eg]/ Plsg ul/Psf] .
* jflif{s cg'dflgt pTkfbg tyf jflif{s ;+sng ug{ ;lsg] kl/df0f cg'dfg u/LPsf] .
* u}/sfi7 jg k}bfjf/sf nflu Transect jf Area Sampling Method k|of]u ul/Psf] / sfi7 hGo jg k}bfjf/sf nflu ;fd'bflos jg >f]t ;e]{If0f lbUbz{g @)^! n] tf]s]sf] ljlw k|of]u ul/Psf] .

**!=#= tYof+ssf] ljZn]if0f**

Primary / Secondary tYof+sx?nfO{ Editing, Coding tyf tabulation u/L ;+lIfKtLs/0f ul/Psf] 5 .

**!=$= k|efjsf] ljZn]if0f**

k|:tfj sfof{Gjog x'g] If]qsf] Field Data Analysis u/L k|:tfj sfof{Gjog ubf{ jftfj/0fdf kg{ ;Sg] ;DefJo cg's'n tyf k|lts'n k|efjnfO{ h}ljs, ef}lts / ;fdflhs, cfly{s tyf ;fF:s[lts u/L # lzif{sdf 5'6\6fO{ Matrix k|0ffnLåf/f ljZn]if0f u/LPsf] 5 / jt{dfg P]g, sfg'g, lgtLlgodnfO{ cfwf/ dfgL lgZsif{ u/LPsf] 5 .

**!=%= k|efj Go"lgs/0fsf pkfox?**

k|:tfj sfof{Gjog ubf{ k|lts'n k|efjnfO{ Go"lgs/0f u/L cg's'n k|efjnfO{ a9fjf lbg :yflgo :t/d} pko'Qm pkfox? tof/ ul/Psf] 5 / tL pkfox?nfO{ sfof{Gjog ug]{ lhDd]jf/ lgsfosf] klxrfg u/L :t/Ls/0f ;d]t u/LPsf] 5 .

**!=^= cWoogsf] If]q l;dfª\sg / l;ldttf**

jg:ktLx? Seasonal ?kdf Germination, Flowering and Fruiting, Ripening, Leafshed cfbL x'g] x'Fbf cWoogsf] lzlznfdf s'g}s'g} k|hftL 5'6 x'g;Sg] b]lvG5, To:t} u/L Wild Animal klg Migrated Nature x'Fbf s]lx hGt'x? tYof+s ;+sngsf] qmddf 5'g x'g ;S5g\ . Budget and Manpower sf] l;ldttfsf sf/0f Primary nfO{ eGbf Secondary Data nfO{ a9Ldfqf ljZn]if0fsf] ?kdf k|of]u ug'{ kg]{ /x]sf] 5 .

**efu @**

**k|:tfj;Fu ;DjlGwt gLlt, sfg"g, dfkb08 tyf ;+:yf(Related Policy, Legislation, Guidelines and Organation)**

lhNnfsf] k~rjlif{o jg sfo{of]hgf sfof{Gjogsf] nflu k|f/lDes jftfj/l0fo kl/If0f k|ltj]bg tof/ ug{sf] nflu lglb{i6 sfo{ljlw tyf k|rlnt P]g sfg"g tyf lgodsf jf/]df lj:t[t hfgsf/L /xg' clt cfjZos 5 . ljleGg lsl;dsf k|:tfj÷of]hgfx? sfof{Gjog x'bf jftfj/0fdf kg{ ;Sg] c;/sf jf/]df cToGt ;r]t /x+b} /fli6«o tyf cGt/fli6«o :t/df ;d]t ljleGg jx; tyf ;femf of]hgf / gLltx? dfly PSo]a4tf hfx]/ x'b} cfO{ /x]sf] 5 . o;} kl/k|]Iodf jg, jGohGt' nufot jftfj/0fsf ;a} c+ux?sf] j}1flgs 9+un] ;+/If0f, ;Djw{g tyf ;b'kof]u ug{sfnflu k/fk"j{sfn b]lv g} lnlvt tyf clnlvt ljleGg ?kaf6 jftfj/0fsf] ;+/If0f x'b} cfO{/xsf]df o; k|:tfj;Fu ;fGble{s jg tyf jftfj/0f gLlt tyf sfg"gsf] b]xfo cg';f/ ljj]rgf ul/Psf] 5 .

**@=!= laBdfg ;fGble{s gLlt tyf sfo{gLltx?**

**@=!=!= jftfj/0f ;DjlGw gLtL**

**s\_ /fli6«o ;+/If0f gLlt, @)$% M**

g]kfn ;/sf/n] jftfj/0f ;+/If0fsf nflu ;j{k|yd @)$% ;fndf NofOPsf] /fli6«o ;+/If0f /0fgLlt (National Conservation Strategy for Nepal, 1988) g} g]kfnsf] klxnf] jftfj/0f ;DjlGw gLltut b:tfj]h xf] . ;/sf/n] nfu" u/]sf] pQm /0fgLltn] ljsf; / ;+/If0f aLr cGt/ ;DjGw /x]sf] s'/f cfTd;fy u/]sf] 5 . t;y{ ef}lts k"jf{wf/ lgdf{0f tyf ljsf; cfof]hgf ;~rfng ubf{ jftfj/0fLo k|efj d"Nof+sg ug{'kg{] / To:tf sfo{x?af6 kg{;Sg] k|lts'n k|efj Go'lgs/0f ug{ plrt Joj:yf ug{'kg{] s'/fdf hf]8 lbO{Psf] kfO{G5 .

**v\_ cfjlws of]hgfx¿ M**

g]kfnsf] cfjlws of]hgfx¿nfO{ klg gLltut b:tfj]hsf] ¿kdf lnOG5 . pQm of]hgfx¿df cGo If]qsf ;fy} jftfj/0f;+u ;DalGwt gLlt;d]t pNn]v /xg] u/]sf] kfOG5 .

5}7f}+ -@)#&–@)$@\_ tyf ;ftf} of]hgfcjlw -@)$@–@)$&\_ df pBf]u :yfkgf tyf ljsf; cfof]hgfsf] ;~rfng ubf{ To;af6 jftfj/0fdf kg{;Sg] k|efjnfO{ b[li6ut u/L tt\;DaGwdf cfjZos Joj:yf ug]{ gLlt clVtof/ ePsf] kfOP klg To; ;DaGwdf cf7f}+ of]hgf -@)$(–@)%$\_ n] k"0f{ ¿kdf cfTd;ft u/]sf] kfOG5 . cf7f}+ of]hgfn] jftfj/0fLo k|efj d"NofÍgsf nflu Ps /fli6«o k4lts} ¿kdf :yfkgf ug]{ / of]hgf th'{df s} qmddf jftfj/0fLo k|efj d"NofÍgnfO{ k"j{ zt{s} ¿kdf /fv]sf] b]lvG5 . gjf}+ of]hgf -@)%$–@)%(\_ n] jftfj/0fLo k|efj d"NofÍg k|lqmofnfO{ ;xeflutfd"ns agfO{ :yfgLo:t/b]lv g} cfly{sof]hgf tyf ljsf;sfo{df k|efjsf/L ;dfof]hgtkm{ hf]8 lbPsf] kfOG5 . o;} of]hgf cjlwdf Ps /fli6«o jftfj/0f gLlt tyf sfo{of]hgf @)%) ;d]t tof/ eO{ nfu" /x]sf] b]lvG5 . bzf}+ of]hgf -@)%(–@)^$\_ n] jftfj/0f k|efj d"NofÍgnfO{ cem dxTj lbFb} ljsf; cfof]hgf Pj+ sfo{qmd ;~rfngk"j{ jftfj/0fLo k|efj d"NofÍgnfO{ clgjfo{ u/fO{ jftfj/0fLo k|efj d"NofÍg ul/Psf cfof]hgfsf] sfof{Gjog l:yltsf] lgoldt cg'udg d"NofÍg;d]tnfO{ k|efjsf/L agfpg] s'/fdf hf]8 lbPsf] 5 . g]kfn ;/sf/sf] # jif]{ cGtl/d of]hgf -@)&)÷&!—@)&@÷&#\_ n] ;d]t jftfj/0fLo k|efj d"NofÍgnfO{ hf]8 lb+b} jg k}bfjf/df cfwfl/t pBf]nfO{ k|f]T;fxg u/L :yfgLo /f]huf/L a9fpg] / jg If]qsf] ul/aL Go"gLs/0fdf of]ubfg a9fpg] nIo /fv]sf] b]lvG5 . \_

**@=!=@= jg;+u ;DalGwt**

**s\_ /fli6«o jg of]hgf, @)## M**

g]kfnsf] jgnfO{ j}1flgs tl/sfn] lbuf] ¿kdf Joj:yfkg ug{ @)## ;fndf /fli6«o jgof]hgf nfu" ul/of] . o;nfO{ g} g]kfnsf] klxnf] jg;DaGwL gLltsf] ¿kdf lnOG5 . o;n] jg;DaGwL ljljw s'/fx¿ ;d]6\g'sf ;fy} lbuf] jg Joj:yfkgaf6 k|fKt x'g] jgk}bfjf/sf] ;b'kof]u ug{ To;df cfwfl/t pBf]usf] :yfkgfnfO{ klg hf]8 lbPsf] lyof] . pQm gLlt nfu" ePkl5 g} jgk}bfjf/df cfwfl/t pBf]ux¿ vf;u/]/ /f]lhg tyf 6k]{G6fOg pBf]u :yfkgfsf] z'?jft ePsf] b]lvG5 .

**v\_ jgljsf; u'?of]hgf— jgIf]qsf] gLlt, @)$^ M**

lj=;+= @)$^ ;fndf cyf{t /fli6«o jgof]hgf nfu" ePsf] sl/a !# jif{kl5 jg ljsf; u'?of]hgf (Master Plan for the Forestry Sector:MFSC) sf] ¿kdf jg;DaGwL gofF gLlt nfu" ul/of] . oBlk of] gLltsf] ;dofjlw ;DffKt e};s]sf] cj:yfdf klg xfnsf] jg;DaGwL d"n gLltut b:tfj]hsf] ¿kdf lng] ul/G5 . jgljsf; u'?of]hgf, jgIf]qsf] gLlt @)$^ sf p2]Zox¿df æjg–;Dkbfsf] ;'Joj:yf, jgk}bfjf/df cfwfl/t pBf]ux¿sf] lj:tf/ tyf cfoj[l4 / /f]huf/Lsf cj;/x¿ l;h{gf u/]/ :yfgLo tyf /fli6«o cy{tGq ;'b[9 ug{ ;3fp k'¥ofpg]Æ Aoxf]/f pNn]v u/]sf] 5 . o;} u/L pQm gLltsf] ælghL If]qsf] e"ldsfÆ df jgk}bfjf/df cfwfl/t gofF pBf]ux¿ vf]Nbf rflxg] sRrfkbfy{x¿sf] pknAwtf / pTkfbg;DaGwL of]hgf jg tyf e"-;+/If0f dGqfnonfO{ :jLsfo{ ePdf dfq o:tf gofF pBf]ux¿ vf]Ng lbOg]] Joxf]/f pNn]v 5 . o;n] klg lbuf] Joj:yfkgnfO{ hf]8 lbFb} To;af6 k|fKt x'g] jgk}bfjf/df cfwf/ x'g] u/L gofF pBf]ux¿ vf]Ng lbg] Joj:yf u/]sf] kfOG5 . jgk}bfjf/df cfwfl/t cfof]hgf ;~rfngnufot cGo sfo{ ubf{ h}ljs ljljwtf / kfl/l:ysLo ;Gt'ng sfod /fVg cfjZos x'g] x'Fbf jftfj/0f k|efj d"NofÍg ug'{kg]{ egL cf}+NofOPsf] 5 .

**u\_ ;+zf]lwt jgIf]qsf] gLlt @)%& M**

jgljsf; u'?of]hgfsf ¿kdf /x]sf] plNnlvt @)$^ ;fnsf] jgIf]qsf] gLltnfO{ k'g/fjnf]sg u/L tTsflng ;/sf/n] jgIf]qsf] gofF ;+zf]lwt gLlt, @)%& nfu" u/]sf] 5 . o; gLltn] pRr cflYf{s tyf /fli6«o dxTj ePsf t/fO{ / r'/]sf jgnfO{ To;sf] glhsdf a;f]jf; ug]{ 3/w'/Lx¿nfO{ ;dfj]z u/L ;fem]bf/Ldf jgJoj:yfkg (Collaborative Forest Management) ug]{ h:tf gofF cjwf/0ff cufl8 ;f/]sf] 5 eg] jgk}bfjf/df cfwfl/t pBf]usf ;DaGwdf eg] ;flass} gLltnfO{ lg/Gt/tf lbOPsf] 5 .

**3\_ h}ljs ljljwtf /0fgLlt, @)%( M**

k|s[ltdf ePsf] h}ljs ljljwtfnfO{ dxTj lbb} To;sf] ;+/If0fsf] nflu xfnsf jif{x¿df ljif]z kxn eO{ /x]sf] ;Gbe{df g]kfndf klg h}ljs ljljwtf ;+/If0f ug{ g]kfn h}ljs ljljwtf /0fgLlt, @)%( nfu" ul/Psf] 5 . o;n] h}ljs ljljwtfdf pNn]vgLo c;/ kfg{;Sg] cfof]hgfx¿ ;~rfng ug'{k"j{ To:tf cfof]hgfx¿sf] jftfj/0f ;+/If0f P]g, @)%# / jftfj/0f ;+/If0f lgodfjnL, @)%$ -;+zf]wg ;lxt\_ cg';f/ jftfj/0fLo k|efj d"NofÍg ug{'kg]{ x'Fbf To;sf] k|efjsf/L sfof{Gjogdf hf]8 lbg] s'/f pNn]v u/]sf] 5 .

**ª\_ jg gLlt, @)&! M**

jg If]qsf] pTkfbsTj / jg k}bfjf/sf] pTkfbg a[l4 u/L :yfgLo tyf /fli6«o cfjZostf kl/k"lt{ ub}{ lgsf;L k|j4{g ug]{, jg, jg:klt, jGohGt', ;++/lIft If]q tyf hnfwf/ If]qsf] ;++/If0f Pj+ Joj:yfkg u/L jftfj/0fLo ;Gt'ng sfod /fVg], ;fd'bflos jg nufotsf ;d'bfodf cfwfl/t jg Joj:yfkg k2ltsf] k|j4{g ug{], jg If]qsf] ;++/If0f, ;Dj4{g Pj+ Joj:yfkgdf lghL If]qnfO{ ;d]t ;+nUg u/fO{ cfo cfh{g tyf /f]huf/Lsf cj;/x? l;h{gf ug]{ tyf /fli6«o cy{tGqdf jg If]qsf] of]ubfgdf clea[l4 ug]{ p2]Zo /x]sf] 5 .

**@=@= ;fGble{s P]g tyf lgodx?**

**@=@=!= jftfj/0f ;DjlGw P]g tyf lgodx?**

ljsf; cfof]hgf tyf sfo{qmdx? ;+rfng ubf{ jftfj/0fLo kIfnfO{ ;dfj]z ug{'kg]{ cawf/0ff cg'?k g]kfn ;/sf/åf/f jftfj/0f ;+/If0f P]g, @)%# tyf jftfj/0f ;+/If0f lgodfjnL, @)%$ -;+zf]wg ;lxt\_ hfl/ e} ;s]sf] 5 . pQm P]gsf] bkmf # / $ df IEE / EIA ug'{ kg]{ k|:tfjx? / k|:tfj l:js[t gu/fO{ sfof{Gjog ug{ gx'g] Joj:yf ul/g'sf ;fy} o; k|:tfj ;Gbe{df jftfj/0f ;+/If0f lgodfjnL @)%$ sf] lgod # ;+u ;DjlGwt cg';"lr ! -c\_ sf] !) df k|f/lDes jftfj/0fLo kl/If0f ug'{ kg]{ pNn]v ePsf] 5 . ;f]xL lgodfjnLsf] kl/R5]b @ lgod & ;+u ;DjlGwt cg';"lr % df k|f/lDes jftfj/0fLo kl/If0f k|ltj]bg tof/ ubf{ v'nfpg' kg]{ s'/fx? pNn]v ul/Psf] 5 . pQm lgodfjnLdf cGo Joj:yfsf cltl/Qm k|f/lDes jftfj/0fLo kl/If0f ug'{ k"j{ ;DjlGwt lgsfoaf6 ;f]sf] sfo{;"rL :jLs[t u/fpg' kg]{ k|fjwfg ;d]t /x]sf]5 .

**@=@=@= jg ;DjlGw P]g tyf lgodx?**

jg h+unsf] ;+/If0f u/L jftfj/0fsf] k|jw{g ug{ / jg k}bfjf/sf] ;d'lrt ;b'kof]u u/L hgtfsf] cfwf/e't cfjZostf kl/k"lt{ ug{ g]kfn ;/sf/n] jg P]g @)$( / jg lgodfjnL @)%! hf/L u/]sf] 5 . ;f]lx P]gsf] bkmf @) / @! df ;/sf/åf/f Jojl:yt jgsf] lbuf] Joj:yfkgsfnflu sfo{of]hgf tof/ u/L :jLs[t ug'{ kg]{ tyf sfo{of]hgfn] lglb{i6 u/]sf] jfx]s cGo s'g} klg sfo{ ug{ u/fpg gkfO{g] sfg'gL k|fjwfg /x]sf] 5 . ;f]xL P]gsf] bkmf @@ df ;/sf/åf/f Jojl:yt jgsf] jg k}bfjf/sf] :jfldTj tyf ljqmL ljt/0f ug]{ Joj:yf u/]sf] kfO{G5 . P]gsf] pQm bkmfx?nfO{ jg lgodfjnL @)%! sf] kl/R5]b @ df yk :ki6 kf/]sf] 5 . h;df jg Joj:yfkg sfo{of]hgfdf ;dfj]; x'g'kg]{ s'/fx?, jgk}bfjf/ ;+sng ubf{ ckgfpg' kg]{ tl/sf, ljqmL, Joj:yf, lgsf;L ug]{ cjlw tyf s:tf] cj:yfdf jg k}bfjf/ ;+sng / ljqmL ug{ gkfO{g] cflb pNn]v u/]sf] 5 .

o;sf cltl/Qm jg P]g @)$( sf] kl/R5]b !# sf] bkmf ^\* n] s'g} /fli6«o k|fyldstf k|fKt cfof]hgf ;+rfng ubf{ jftfj/0fdf pNn]Vo k|lts"n c;/ gkg]{ ePdf g]kfn ;/sf/n] /fli6«o jg k|of]u ug{ lbg ;Sg] k|fjwfg ub}{ jg lgodfjnLsf] lgod ^% n] To:tf] cfof]hgf ;+rfng ubf{ s;}nfO{ xfgLgf]S;fgL k'Ug uPdf ;DjlGwt cfof]hgfn] g} Ifltk'lt{ lbg' kg]{ k|fjwfg u/L hg;fwf/0fsf] df}lns xssf] ;'/Iffsf] k|Tofe'lt lbPsf]5 .

**@=@=#= jGohGt' ;+/If0f ;DjlGw P]g tyf lgodx?**

b"n{e jgohGt'x?sf] ;+/If0f ug{ /fli6«o lgs'~h tyf jGohGt' ;+/If0f P]g @)@( nfu' ePsf] 5 . o; P]gsf] bkmf !) n] lgs'~h, cf/If, ;+/If0f If]q jf cGo jg If]qdf kfO{g] @^ lsl;dsf :tgwf/L, ( lsl;dsf kFIfL / # lsl;dsf ;/L;[knfO{ ;+/lIft jGohGt'sf] bhf{ lbO{ pQm jGohGt'nfO{ dfg{ kqmg jf nv]6\g jf cGo s'g} lsl;dn] xflg gf]S;fgL k'¥ofpg lgif]w u/]sf] 5 . o; cGtu{t nfu' ul/Psf] sfg"g ;Dk'0f{ lsl;dsf jg If]q jf g]kfn clw/fHoe/ nfu' ePsf] 5 .

**@=@=$= e"–tyf hnfwf/ ;+/If0f ;DjlGw P]g tyf lgodx?**

e" tyf hnfwf/ ;+/If0f P]g @)#( tyf e" tyf hnfwf/ ;+/If0f lgodfjnL @)$@ df hnfwf/ If]qx?df e"–Ifo tyf af9L klx/f]sf] k|sf]knfO{ lgoGq0f tyf Go"lgs/0f ug{ ljleGg k|fjwfgx? ;dfj]; ul/Psf] 5 .

**@=@=%= :yflgo :jfoQ zf;g ;DjlGw P]g tyf lgodx?**

:yflgo :jfoQ zf;g P]g @)%% n] uf=lj=;=, gu/kflnsf / lh=lj=;= nfO{ cfˆgf] If]qflwsf/ leqsf jftfj/0f ;+/If0f tyf k|jw{g ug{ jg jg:klt, h}ljs ljljwtf / e"–;+/If0f ;DjGwdf of]hgf tof/ u/L sfof{Gjog ug{ u/fpg ;Sg] clwsf/ k|bfg u/]sf] 5 . ;DjlGwt :yflgo lgsfon] o:tf] sfo{qmd lh=j=sf= jf jg pkef]Qmf ;d'xx?sf] ;dGjodf sfo{ ;+rfng ug{ ;Sg] x'bf ;/sf/åf/f Jojl:yt jgsf] jg k}bfjf/ ;+sng tyf laqmL ljt/0f ;DjlGw k|:tfjsf] sfof{Gjogaf6 o:tf lgsfox?df k|fKt clwsf/nfO{ k|efj kf/]sf] b]lvb}g .

**@=@=^ cGo P]g lgodx? M**

>d P]g @)$\* tyf >d lgodfjnL @)%) n] >ddf nufpg ;Sg] sfdbf/sf] pd]/, ;do tyf kfpg' kg{] ;'ljwfsf] jf/]df pNn]v u/]sf] kfO{G5 . o;} u/L o; P]gn] /f]huf/Lsf] ;"/Iff tyf sdbf/nfO{ sfd nufpbf s'g} c+ue+u tyf Iflt ePdf Ifltk'lt{sf] Joj:yfsf] jf/]df pNn]v u/]sf] 5 . o; P]gn] >ddf nufpg] ;Sg] pd]/sf] xb tf]sL jfnsx?nfO{ >ddf nufpg k|ltjGw ;d]t u/]sf] 5 .

**@=#= dfkb08x?, lgb]{lzsf tyf lbUbz{gx?**

**@=#=!= jftfj/0f ;DjlGw**

g]kfn ;/sf/n] cf7f}+ of]hgfsf] gLlt sfof{Gjogdf ;xof]u k'uf]; eGgsf]nflu jftfj/0f ;+/If0f P]g / jftfj/0f ;+/If0f lgodfjnL Nofpg' cuf8L g} Ps /fli6«o jftfj/0fLo k|efj d'NofÍg lgb]{lzsf @)%) nfu' ul/;s]sf] 5 . of] lgb]{lzsfn] cWoogsf] qmddf hg;xeflutf h'6fpg' kg]{, cfjZos ;"rgfx?sf] ;+sng ug]{, ljjfbsf ljifox?sf] ulDe/tfsf] d'NofÍg ug]{ / jftfj/0fLo cWoogsf]nflu tL ljifox?sf] k|fyldstfqmd lgwf{/0f ug]{ s'/fx?nfO{ k|i6 ?kdf hf]8 lbPsf]5 . To;} ul/ jftfj/0fLo of]hgf th'{df lgb]{lzsf @)%% / jftfj/0fLo k|efj d"NofÍg lgb{]lzsf @)^@ ;d]t hf/L ePsf] kfO{G5 .

**@=#=@= jg ;DjlGw**

g]kfn ;/sf/n] jg P]g @)$( tyf jg lgodfjnL @)%! n] lbPsf] clwsf/ k|of]u u/L jg If]qsf]nflu k|f/lDes jftfj/0fLo kl/If0fsf] sfo{;"rL tyf k|ltj]bg lbUbz{g @)^!, jg k}bfjf/ -sf7÷bfp/f\_ ;+sng / ljqmL ljt/0f lgb]{lzsf @)%&, ;fd'bflos jgsf] sf7÷bfp/f ;+sng tyf laqmL–ljt/0f lgb]{lzsf @)&! / jg k}bfjf/ laqmL ljt/0f lgb]{lzsf @)^) nfu' u/sf] 5 . ;fy} ;fd'bfoLs jg ljsf; sfo{qmdsf] dfu{bz{g @)^% / ;fd'bflos jg >f]t ;e{]If0f dfu{bz{g @)^! -kl/dflh{t\_ df ;/sf/åf/f Joal:yt jg ;fd'bflos jgsf] ?kdf jg pkef]Qmf ;d"xnfO{ x:tfGt/0f ubf{ ckgfpg' kg]{ k|s[ofsf jf/]df pNn]v ul/Psf] 5 .

**@=$= cGt/fli6«o sfg"g tyf ;Demf}tf**

dfly pNn]v u/]sf P]g lgodsf cltl/Qm g]kfn kIf ePsf jftfj/0f ;DjlGw s]xL cGt/fli6«o sfg"gx?nfO{ k|:tfj sfof{Gjogsfnflu k|f/lDes jftfj/0f kl/If0fsf qmddf Wofg lbg' kg]{ h?/L b]lvG5 . g]kfnn] x:tfIf/ tyf cg'df]bg u/]sf cGt/fli6«o :t/sf ljleGg ;lGw jf dxf;lGwx? dxTjk"0f{ b:tfj]hsf] ?kdf /x]sf 5g . o;/L x:tfIf/ ul/Psf dxf;GwLx?df lgDg 5g\ .

**Non binding Process**

• UN World Charter for Nature (1982)

• International Tropical Timber Agreement (ITTA) 1994

• Inter governmental Panel on forests /UNFF

• UN Declaration on the Rights of Indigenous Peoples (UN DRIP)

• Sustainable Development measures (Agenda 21)

• Millennium development Goal (MDG)/SDG

cGt/fli6«o sfg"g

|  |  |  |
| --- | --- | --- |
| l;=g+= | dxf;GwLsf] gfd | g]kfndf nfu" |
| != | jg:klt ;+/If0f dxf;GwL, !(%! | % cu:6, @))^ |
| @= | blIf0f k"j{ Plzof tyf k|zfGt If]qsf nflu lj?jf ;+/If0f ;DaGwL ;Demf}tf, !(%^ | !@ cui6, !(^% |
| #= | hnk+IfLsf] a;f]af; h:tf cGt/fli6«o dxTjsf] l;d;f/ dxf;GwL, !(&! | !\* clk|n, !(\*\* |
| $= | ljZj ;fF:s[lts tyf k|fs[lts ;Dkbf ;+/If0f dxf;GwL, !(&@ | @) ;]K6]Da/, !(&@ |
| %= | ;+s6fkGg jg:klt tyf jGohGt' k|hfltsf] cGt/fli6«o Jofkf/ lgodg dxf;GwL -;fOl6;\_, !(&# | !^ ;]K6]Da/, !(&% |
| ^= | cf]hf]g txsf] ;+/If0f;DaGwL leogf dxf;GwL, !(\*% | $ cS6f]a/, !((# |
| &= | Plzof tyf k|zfGt If]qdf cfSjfsNr/ s]Gb|sf] g]6js{;DaGwL ;Demf}tf, !(\*\* | $ hgj/L, !(() |
| \*= | 3fts kmf]xf]/d}nfsf] l;dfkf/ cf];f/k;f/ lgoGq0f;DaGwL jf;]n dxf;GwL, !(\*( | !# hgj/L, !((& |
| (= | hnjfo' kl/jt{g;DaGwL dxf;GwL, !((@ | #! h'nfO{, !(($ |
| !)= | h}ljs ljljwtf dxf;GwL, !((@ | @! km]a|'c/L, !(($ |
| !!= | d?e'dLs/0f lj?4 ;+3if{ ug{ Joj:yf ePsf] dxf;GwL, !(($ | !# hgj/L, !((& |
| !@= | Sof]6f] k|f]6f]sn, !((% |  |
| !#= | cGt/fli6«o pi0fk|b]lzo sf7;DaGwL ;Demf}tf | # h'nfO{, !(() |
| !$= | cfO=Pn=cf]= cle;GwL, !^( | !% ;]K6]Da/, @))& |

>f]t M ljleGg cGt{/fli6«o ;lGw ;Demf}tfx?

oL dxf;GwLx?n] k|fs[lts >f]t Joj:yfkg tyf hLj / jg:kltsf] ;+/If0f lglZrt ug{ k|fjwfgsf] Joj:yfkg u/]sf] 5 .

**@=%= k|:tfj sfof{Gjog ubf{ ;dGjo ug'{kg]{ ;+:yfx?**

of] k|:tfj sfof{Gjog ubf{ ;/f]sf/jfnf ;a} ;+3 ;+:yfx?;+u cfjZos ;dGjo ul/g] 5 . vf; ul/ lhNnf ljsf; ;ldlt, gu/kflnsfx?, :yflgo uf=lj=;=x?, ;fd'bflos tyf sa'lnotL jg pkef]Qmf ;d"x, jftfj/0f ;DjlGw sfd ;+rfng ug]{ ;/sf/L tyf u}x| ;/sf/L ;+3÷;+:yfx?;+u ljz]if ;dGjo ul/g] 5 . l5d]sL lhNnf jg sfof{nox?, If]lqo jg lgb]{zgfno, jg ljefu / dGqfnox?;Fu klg ;dGjo sfod u/L k|:tfj sfof{Gjog ul/g] 5 .

**efu #**

**ljBdfg jftfj/0fLo cj:yf**

**(Existing Environmental Condition)**

**#=!= ef}lts jftfj/0fLo cj:yf**

b'O{ lgjf{rg If]q ePsf] o; lhNnfdf !! j6f Onfsf ! gu/kflnsf / $& j6f uf=lj=;= 5g\ . kx'Fr ePsf] jg If]q !#%\*) x]= ;lxt hDdf !(((& x]= df of] k|:tfj sfof{Gjog x'g] 5 .

**#=!=!= ef}uf]lns l:ytL**

**-s\_ l;dfgf / If]qkmn**

k"j{ – sf:sL / :ofªhf lhNnf

klZrd – afun'ª / DofUbLsf] s]lx efu

pQ/ – DofUbL

blIf0f – :ofªhf / u'NdLsf] s]xL efu

**tflnsf g+=# e" pkof]utsf] cj:yf**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **k|of]u** | **v]t** | **jfvf]** | **jgh+un** | **3/, afemf] cGo** | **hDdf** |
| lhNnfsf] hDdf | ()@! | !%!%) | !(((& | (%!\*=@! | %#^\*^ |
| k|ltzt | !^=\* | @^=@@ | #&=@% | !&=&@(# | !)) |

***->f]tM zfvf tYof+s sfof{no, :ofªhf\_***

**-v\_ cIff+z / b]zfGt/**

@&) %\*ÚÚ –@\*) #(ÚÚ pQ/L cIff+z

\*#) #$ÚÚ –\*#) %(ÚÚ k'jL{ b]zfGt/

prfO{ –%@) dL= -;]tLj]0fL\_ b]lv ##)) dL= -hNnnfsf] n]s\_

***->f]tM zfvf tYof+s sfof{no, :ofªhf\_***

**#=!=@= e' agf]6 / hnjfo'**

**-s\_ df6f]**

clwsf+z hldgsf] If]qkmn le/fnf]kg ePsf]n] k|foh;f] df6f]df Ps?ktf b]Vg ;lsG5 . vf;u/L lrD6fO{nf], anf}6], km';|f] / /ftf] df6f]sf] k|d'vtf /x]s]f 5 . pj{/fo'Qm hldgx? h:t} kmn]jf;, 1fbL, n]skmfF6, cfbLdf Sandy Loam, Clay Silt, Silt Loamklg kfOG5 .

**-v\_ hnjfo'**

**xfjfkfgL**

g]kfnsf] xfjfkfgLsf] lx;fjn] kj{t ;dlztf]i0f k|b]zdf kg]{ ePtfklg prfO{ tyf df]x8fsf] ljljwtfn] ubf{ xfjfkfgLdf leGgtf kfOG5 . o; lhNnfdf d'Vo u/]/ lgDgfg';f/sf] xfjfkfgL kfOG5 .

Tropical Climate : Less than 1000 m. having MAT more than 200

Subtropical Climate : Altitiude ranges from 1000-2000m. having MAT 150-200

Temperate Climate : Altitude more than 2000m. having MAT less than 150

lhNnfsf] ;/b/ tfkqmd M

clwstd M #@=#)

Go"gtd M &=%)

lhNnfsf] ;/b/ jiff{ M

clwstd M @^)) ld=ld=

Go"gtd M @$)) ld=ld=

**-u\_ hne08f/**

kj{t lhNnf k|z:t gbLgfnf ePsf] lhNnf xf] . o; lhNnfdf lxdfnoaf6 cfpg] gbL sfnLu08sL / df]bL x'g\ eg] :yflgo kxf8af6 cfpg] gbL dNofªbL, ndfo, lrbL{, ;]bL -k}o"\_, n'ªbL, n:tL, hx/], /tL, afR5f, dbL{ / kftLvf]nf cfbL 5g\ . xfn;Dd oL gbLx?df s'g} /f;folgs j:t'nfO{ kmfn]/ pBf]u ;+rfng u/]sf pBf]u :yfkgf ePsf 5}gg\ / ;a} If]qdf kfOg] kfgLsf e08f/ klxn] s} cj:yfdf /x]sf 5g\ .

**#=!=#= e' Ifo, e' pkof]u / gbL vf]nf**

**-s\_ e' Ifosf] l:ytL**

a9L le/fnf] hldg ePsf] sf/0f jiff{bdf slxn]sflx af9Lklx/f] cfpg] u/]sf] kfOG5 eg] gbL vf]nf 5]p5fpdf ;fdfGo gbL s6fg x'g] u/]sf] 5 / oL sfo{x?nfO{ /f]syfd ug{ lhNnf e' ;+/If0f sfof{non] sf] UpStream and DownStream cjwf/0ff cg';f/ sfo{u/L /x]sf] 5 .

**-v\_ e' pkof]lutfsf] l:ytL**

o; lhNnfsf] e' pkof]lutf lgDgfg';f/ /x]sf] 5 .

**tflnsf g+= $= e" pkof]utsf] cj:yf**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **k|of]u** | **v]t** | **jfvf]** | **jgh+un** | **3/, afemf] cGo** | **hDdf** |
| lhNnfsf] hDdf | ()@! | !%!%) | !(((& | (%!\*=@! | %#^\*^ |
| k|ltzt | !^=\* | @^=@@ | #&=@% | !&=&@(# | !)) |

***->f]tM zfvf tYof+s sfof{no, :ofªhf­\_***

**-u\_ gbL, vf]nf**

d'Vo gbLx?M sfnLu08sL / df]bL

;xfos gbLx?M dNofªbL, ndfo, lrbL{, ;]bL-k}o'\_, n:tL, hx/], /tL, afR5f, dbL{ / kftLvf]nf cfbL .

l;d;f/ If]qx?M o; lhNnfdf kfO{g] d'Vo tfnx?df k+rf;]sf] tfn, sfnLu08sLdf ljB't lgsfNg k|of]u u/LPsf] Reservior,sfnLu08sL gbL, df]bL glb tyf ljljw :yfgdf /x]sf l;d v]t tyf ;fgf;fgf tfn tn}ofx? d'Vo ?kdf l;d;f/ If]q leq kb{5g\ .

**#=!=$= kfgL, WjgL k|b'if0fsf] l:ytL**

o; lhNnfdf WjgL k|b'if0fsf nflu ;jf/L ;fwgx? afx]s cGo pBf]u tyf snsf/vfgfx? 5}gg\ eg] jiff{tsf] sf/0faf6 afx]s cGo k|sf/af6 kfgLsf] k|b'if0f ePsf] kfOb}g . ;du|df of] If]q /fd|f] cj:yfdf 5 .

**#=!=%= jftfj/0fLo b[li6sf]0fn] ;+j]glzn If]q**

xfn;Dd o; lhNnfsf] k"jL{efudf /x]sf # uf=lj=;= lrq], cfy{/ / /fDhfdf /x]sf] k+rf;] If]qnfO{ h'g kj{t lhNnfsf] ul/ # uf=lj=;=df kb{5 nfO{ h}ljs ljljwtfsf] lx;fjn] wgL dflgPsf]n] o; If]qnfO{ g]kfn ;/sf/n] k+rf;] ;+/lIft jg eg]/ 3f]if0ff u/]sf] 5 .

**#=@= ;fdflhs / cfly{s cj:yf**

**#=@=!= hg;+Vof**

g]kfn clw/fHosf] hgu0fgf @)^\* cg';f/ o; lhNnfsf] hg;+Vof ljj/0f lgDgfg';f/ /x]sf] 5 .

**tflnsf g+=%=hg;+Vofsf] ljj/0f**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **If]q** | **kl/jf/ ;+Vof** | **3/w'/L ;+Vof** | **hg;+Vof** | | | **cf}ift kl/jf/ ;+Vof** |
| **dlxnf** | **k'?if** | **hDdf** |
| kj{tlhNnf | #%&!( | #!%@& | \*!@\*( | ^%#)! | !$^%() | $=!) |

***->f]tM zfvf tYof+s sfof{no, :ofªhf\_***

**#=@=@= hftL, wd{ / k]zf**

g]kfn clw/fHosf] hgu0fgf @)%\* cg';f/ o; lhNnfsf] hftL, wd{ / k]zfsf] ljj/0f lgDgfg';f/ /x]sf] 5 .

**tflnsf g+=^=wd{, hftL, efiff / k]zfsf] ljj/0f**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **hft hftLsf] cfwf/df** | | **wd{sf] cfwf/df** | | **efifsf] cfwf/df** | | **k]zfsf] cfwf/df** | |
| **hft hftL** | **k|ltzt** | **wd{** | **k|ltzt** | **efiff** | **k|ltzt** | **k]zf** | **k|ltzt** |
| a|fd0f | #\*=$& | lxGb' | \*&=&& | g]kfnL | \*&=\*( | s[lif | %\*=&^ |
| If]qL | !^=)! | af}4 | !!=\*@ | du/ | %=%^ | pBf]u | !=^@ |
| blnt | @)=$ | O:nfd | )=@% | u'?ª | $=%! | lgdf{0f ;]jf | )=^! |
| hghftL | @) | lqmlZrog | )=)& | g]jf/ | !=)@ | Jofkf/ | @=#^ |
| cGo | %=!@ | h}g | )=)! | cGo | !)) | oftfoft / ;+rf/ | !=!! |
| hDdf | !)) | ls/f+t | )=)! | hDdf |  | :j]bzdf gf]s/L | #=@^ |
|  |  | axfO | ) |  |  | j}b]lzs gf]s/L | &=@% |
|  |  | lzv | )=)# |  |  | 3/]n' sfdbf/ | !=#( |
|  |  | cGo | )=)$ |  |  | ljBfyL{ | !%=$( |
|  |  | hDdf | !)) |  |  | cGo | %=\*! |
|  |  |  |  |  |  | hDdf | (&=^^ |

***>f]tM zfvf tYof+s sfof{no, :ofªhf***

**#=@=#= lzIff / :jf:Yo**

lhNnf ljsf; ;ldltsf] sfof{nosf] ljj/0f cg';f/ o; lhNnfdf lgDgfg';f/ lzIff / :jf:Yosf] l:ytL 5 .

**tflnsf g+=&= lzIff / :jf:Yosf] ljj/0f**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **;fIf/tf k|ltzt** | | | **z}lIfs ;+:yfx?sf] ljj/0f** | | | | | **:jf:Yo ;+:yfx?s]f ljj/0f** | | | |
| dlxnf | k'?if | hDdf | k|f=lj= | lg=df=lj= | df=lj= | p=df=lj= | SofDk; | c:ktfn | :j:Yo s]Gb| | :jf:Yo rf}sL | pk :jf:Yo rf}ls |
| $& | ^\* | %\* | @#@ | #% | %$ | !% | # | ! | @ | !) | $@ |

***>f]tM zfvf tYof+s sfof{no, :ofªhf***

**#=@=$= ef}lts k"jf{wf/ ljsf;**

**-s\_ oftfoft**

o; lhNnfsf] oftfoftsf] ljj/0f lgDgfg';f/ /x]sf] 5 .

**tflnsf g+= \* oftfoftsf] ljj/0f**

|  |  |  |  |
| --- | --- | --- | --- |
| **l;=g+=** | **;8ssf] gfd** | **nDafO{ ls=dL=** | **;8ssf] k|sf/** |
| ! | gof+k'n –dfn9'+uf | @% | kSsL jf sfnf]kq] |
| @ | s'Zdf zx/L ;8s | $=% | kSsL jf sfnf]kq] |
| # | bf]ljNnf – kmn]jf; | !^ | sRrL |
| $ | sfsL{g]6f – n'+v' | @%=% | sRrL |
| % | n'+v' – xf]>fªbL | !)=% | sRrL |
| ^ | d'l8s'jf – vfgLufpF | #=% | sRrL |
| & | n'+v' – afnfsf]6 | % | sRrL |
| \* | x'jf; – j/f{rf}/ | @& | sRrL |
| ( | n'+v' – b]p/fnL | @ | sRrL |
| !) | /fgLkfgL – OdLrf}/ | % | sRrL |
| !! | df]gdg]xg dfu{ | !#=% | sRrL |
| !@ | ldngrf]s – afF;vs{ | !) | sRrL |
| !# | kmn]jf; – u+u6] | !^ | sRrL |
| !$ | lnld7fgf – HP School | ! | sRrL |
| !% | s'Zdf – xnxn] | !# | sRrL |
| !^ | b'n'{ª – rgf}6] | # | sRrL |
| !& | 5ds]{ – agf}+ | \* | sRrL |
| !\* | cdf{bL – kfª | & | sRrL |
| !( | l8d'jf – lrq] | !$ | sRrL |
| @) | kftLrf}/ – d}bfg | $ | sRrL |
| @! | lndL7fgf – kGty/ | ! | sRrL |
| @@ | ;x;wf/f – kfª | ! | sRrL |
| @# | kf]v/fle6\6f – vfN6] | ! | sRrL |
| @$ | sfls{g]6f – kmn]jf; | !\* | sRrL |
| @% | kmn]jf; – n'+v' | !$ | sRrL |
| @^ | yfkf7fgf – z+s/kf]v/L | $=% | sRrL |
| @& | yfkf7fgf – e+u/f | $=% | sRrL |
| @\* | bf]ljNnf – sfls{g]6f | !$ | sRrL |
| @( | n'+v' – z]/f | ^=% | sRrL |
| #) | x'jf; – n'+v' | !$ | sRrL |
| #! | v8\s]/L – ks'jf | \* | sRrL |
| #@ | kfª – cfªv]t | @=\* | sRrL |
| ## | n'+v' – l;Dn] | $ | sRrL |
| #$ | s'gfbL – OdLrf}/ | #=% | sRrL |
| #% | /fgLkfgL – cfdaf/L | @ | sRrL |
| #^ | ks'jf – cfy{/ | $ | sRrL |
| #& | yfp;]vf]nf – sfsL{g]6f | !) | sRrL |
|  | ***hDdf*** | #@^=# |  |

***>f]tM zfvf tYof+s sfof{no, :ofªhf***

**-v\_ ljB't Pj+ phf{sf] k|of]u**

kj{t lhNnfdf /fli6«o k|;f/0f ljB'tLs/0faf6 ;'ljwf k|fKt u|fxsx? lgDgfg';f/ 5g\ .

**tflnsf g+= ( ljB't ljt/0fsf] cj:yf**

|  |  |  |
| --- | --- | --- |
| **l;=g+=** | **u|fxssf] lsl;d** | **;+Vof** |
| ! | ufx{:y | #!^) |
| @ | Jofkf/Ls | !% |
| # | u}/ Jofkf/Ls | %% |
| $ | cf}Bf]lus | @^ |
| % | dlGb/ | !# |
|  | hDdf | #@^( |

OGwgsf] pkfof]usf] cfwf/df tkl;ndf pNn]lvt k|ltzt cg';f/ pkof]u ePsf] 5 .

***>f]tM lhNnf ljsf; ;ldlt, kj{t***

**tflnsf g+= !) Use of Fuel in Parbat District**

|  |  |  |
| --- | --- | --- |
| **l;=g+=** | **phf{sf] k|sf/** | **k|ltzt** |
| ! | bfp/f | (^=@# |
| @ | Petrolium | )=# |
| # | Animal waste | )=@$ |
| $ | Agriculture Residue | )+!@ |
| % | ljh'nL | )=#\* |
| ^ | sf]Onf | )=# |

***>f]tM lhNnf ljsf; ;ldlt, kj{t***

**-u\_ ;'rgf tyf ;+rf/**

o; lhNnfdf /x]sf ;'rgf tyf ;+rf/nfO{ tn tflnsfdf k|:t't ul/Psf] 5 .

**tflnsf g+= !! Communication Status in Parbat District**

|  |  |
| --- | --- |
| **;+rf/ M** | **;+Vof** |
| ;fwf/0f 6]lnkmf]g nfOg M | !@)! |
| l;=l8=Pd=P= M | !))% |
| df]jfOn M kf]i6k]8 M | !)#@ |
| lk|k]8 | \*)))) |
| :sfO{ | ^))! |
| P=l8=P;\=Pn\ | @)) |
| Pg=6L=:of6 | # |

***>f]tM zfvf tYof+s sfof{no, :ofªhf***

**-3\_ ljlQo tyf cGo ;+3;+:yfx?**

kj{t lhNnfsf] ;du| ljsf;sf nflu lgDgfg';f/sf ljlQo ;+:yfx? tyf ;+3;+:yfx? sfo{/t 5g\ .

**tflnsf g+= !@ ljlQo / cGo ;+3;+:yfsf] ljj/0f**

|  |  |  |
| --- | --- | --- |
| **l;=g+=** | **ljj/0f** | **;+Vof** |
| ! | cGt/fli6«o u}=;=;= | ^ |
| @ | /fli6«o u}=;=;= | @% |
| # | jfl0fHo a}+s | @ |
| $ | ljsf; a}+s | # |
| % | ;xsf/L | &( |

***>f]tM zfvf tYof+s sfof{no, :ofªhf***

**#=@=%= a;fO{ ;/fO{**

kj{t lhNnfaf6 b]zsf ljleGg efudf a;fO{ ;/L hfg] qmd w]/} jif{ cl3 b]lv rln cfPsf] 5 . kj{t lhNnfsf] pQ/ / dWo efuaf6 kf]v/fdf a;fO{ ;/L hfg] ub{5g\ eg] blIf0f / klZrd efuaf6 a'6jn, e}/xjf / t/fO{sf cGo efudf a;fO{ ;g]{ u/]sf] kfOG5 . lhNnf leq Ps uf=lj=;= af6 csf]{ uf=lj=;=df Joj;fo tyf gft]bf/sf] lx;fjn] a;fO{ ;g]{ ub{5g\ / o; lhNnf leq cGoq h:t} afun'ª, DofUbL / d':tfª af6 klg a;fO{ ;/L cfpg] u/]sf] kfOG5 .

**#=@=^= s[lif / kz'kfng**

kj{t lhNnfsf] s'n hg;+Vofsf] %\*=&^ k|ltzt hg;+Vof s[lifdf e/ k/]sf] kfOG5 . o;} u/L @\*%(@ x]= hldg s[lif{ of]Uo 5 eg] #& k|ltzt v]t / ^# k|ltzt kfvf] 5 . vfBfGg afnLx?df u'xF, ds}, wfg, sf]bf] cfbL kb{5g\ / kmnkm'ndf ;'Gtnf, d]jf, cfFk, lnlr, ef]u6] cfbL 5g\ . gub]jfnLdf uxt, df;, tf]/L, e6df;, cfbL kb{5g\ . kz'hGo pTkfbgsf] l:ytL x]bf{ k|ltJolQm k|ltjif{ s/La b'w &^ ln6/ / df;' \* s]=;L= cf};t ug]{ u/L pTkfbg x'G5 . kz'klIfx?df d'Vo u/L v;L, af]sf, /f+uf, e}+;L, afv|f, s'v'/f cfbL 5g\ eg] xfn cfP/ df}/L Joj;fo klg kmi6fpg] qmddf 5 .

**#=#= ;f+:s[lts jftfj/0f**

**#=#=!= wfld{s dxTjsf ;Dkbfx?**

zfvf tYof+s sfof{nosf] ljj/0f cg';f/ \*&=&& k|ltzt lxGb', !!=\*@ k|ltzt af}4 / afFsL cGo wdf{nlDax? o; lhNnfdf a;f]af; ul//x]sf 5g\ . u'Kt]Zj/ u'kmf, ;]tLj]0fL, lqj]0fL, vlgof3f6, k}o"sf]6, e}/jyfg, lz4sf] kfOnf, zfnLu|fd cfbL k|d'v wfld{s :ynx? o; k|:tfjsf] sfof{Gjog If]q leq kb{5g\ . o;} u/L hftLo lx;fan] rnLcfPsf k/Dk/fut ;fF:s[lts rngx?, ;Dkbfx?sf] ljljwtf ePsf] of] lhNnfdf o; k|:tfj sfof{Gjog ubf{ k|lts'n c;/ kg]{ b]lvb}g .

**#=$= h}ljs jftfj/0f**

**#=$=!= jg k}bfjf/ k|hftL / kfO{g] jgsf] ljj/0f**

o; lhNnfsf] s'n If]qkmn dWo] #&=@% k|ltzt cyf{t !(((& x]S6/ hldg jg If]qsf] ?kdf /x]sf] 5 . lhNnfsf] xfjfkfgL tyf prfO{ cg';f/ lgDgfg';f/ jg k|sf/ /x]sf] b]lvG5 .

**s\_ Subtropical Forest Types**

!))) ld= eGbf sd prfO{ ePsf] If]qdf o; lsl;dsf] jg kfOG5 / o; If]qdf d'Vo u/]/ ;fn, lrnfpg], vf]6];Nnf, lth', s6';, 6'gL, df}jf, l;dn, vo/, l;l/;, s'6ld/f] cfbL k|hftL /x]sf 5g\ .

**v\_ Temperate Forest Types**

!))) dL= eGbf dfly / @%)) dL= eGbf tNnf e]udf o; k|sf/sf] jg kfOG5 / o; If]qdf d'Vo u/]/ s6';, lrnfpg], plQ;, afFem, v;'{, k}+o', lemufg], u'/fF;, t]hkft, nf}7;Nnf, l6d'/, nf]Stf, n]srfFk, cf]v/, cflb k|hftLx? kfOG5g\ .

**u\_ Subalpine Forest Types**

%)) dL= eGbf dflysf] If]q ljz]if u/L e'stfª\n] / zflnhfsf] pkNnf If]qdf o; lsl;dsf] jg kfOG5g\ . o; If]qdf kfOg] d'Vo k|hftLx? uf]j|];Nnf, nf}7;Nnf, u'F/f;, w'lk;Nnf, v;"{, ljif, ;t'jf, cNnf] tyf w]/} k|sf/sf dxTjk"0f{ hl8a'l6x? kfOG5g\ .

**tflnsf g+= !# k|hftLsf] cfwf/df kj{t lhNnfsf] jg If]q**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **l;=g+=** | **lsl;d** | **5q 3gTj** | **If]qkmn x]=** | **d'Vo k|hftL** | **k'g?Tkfbgsf] cj:yf** |
| ! | sf]0fwf/L (Conifer) | $)–&) | @)^$ | vf]6];Nnf, uf]j|];Nnf, l7u|;Nnf, nf}7;Nnf | ;fdfGo |
| @ | rf}8fkft] (Broad leaved) | $)–&) | !#(!# | ;fn, lrnfpg], s6';, k}+o", vf]v/ | ;fdfGo |
| # | ldl>t (Mixed) | $)–&) | @%#@ | vf]6];Nnf, ;fn, uf]j|];Nnf, u'/fF;, cf]v/ | sf0fwf/L sd |
| $ | emfl8a§ofg (Shrub) | @) eGbf sd | !$\*\* | lrnfpg], s6';, r'qf], l6d'/, wfO/f] |  |
|  | ***hDdf*** | | !(((& |  |  |

***>f]tM LRMP Land Utilization Map (From DDC)***

**#=$=@= ;fd'bflos jg tyf cGo jgsf] ljj/0f**

**#=$=@=!= ;fd'bflos jg**

;fd'bflos jgsf] ljsf;n] g]kfnsf] jg ljsf;sf] kf6f]nfO{ lgSs} cufl8 a9fPsf] 5 . ljZjs} ;kmntd sfo{qmdsf] ?kdf lrgLb} cfPsf] ;fd'bflos jg ljsf; sfo{qmdn] lbuf] ljsf; ;d]t 7"nf] 6]jf k'/fPsf] 5 . o; lhNnfsf] s'n jg If]q !(((& x]S6/ dWo] !#\*%) x]S6/ Reachable Forest 5 / ^!$& x]S6/nfO{ ;+/lIft jgsf] ?kdf ljsf; ug{ ;lsG5 egL LRMP sf] 8f6fn] b]vfPklg o; lhNnfdf ePsf cUnf n]sx? h:t} e'ssf]n]s, xDkfn zflnhf, 8x/]sf] n]s, k+rf;], uf]Nof{ª cfbL :yfgx?df klg k/Dk/f ?kdf uf]7 /fVg] k|rng lyof] / tL jg If]qx? klg ;fd'bflos jgsf] ?kdf :yflgo hgtfnfO{ x:tfGt/0f ub}{ cfPsf] 5 / cf=j= )&!.&@ ;Dddf o; lhNnfdf #&@ j6f ;fd'bflos jg x:tfGt/0f ePsf 5g\ tL ;d"x?af6 hDdf !#))@=&\* x]S6/ jg If]q Joj:yfkg eO{ /fv]sf] 5 .

**#=$=@=@= sj'lnotL jg**

xfn;Dd o; lhNnfdf sa'lnotL jgsf] ?kdf b'O{ j6f jg ;d"x Sofª uf=lj=;=df u7g ePs]f 5 / tL ;d"xaf6 !^ 3/w'/L nfeflGjt eO{ ^=\*! x]S6/ jg Joj:yfkg ub}{ cfPsf 5g\ / ;fd'bflos jg leq hUuf 5'§ofP/ sa'lnotL jgsf] ?kdf sfo{qmd ;+rfng ug]{ k|f/De ePsf] 5 .

**#=$=@=#= gLhL jg ;DalGw**

o; lhNnfdf xfn;Dd #% j6f lghL jg btf{ ePsf 5g\ / tL btf{jfnf lghL jgaf6 !%=!^ x]S6/ Joj:yfkg ub}{ cfPsf 5g\ .

**#=$=#= k|:tfljt If]qsf] h}ljsljj/0f**

**#=$=#=!= k|:tfj sfof{Gjog x'g] If]qdf kfO{g] d'Vo u}x|sfi7 jg k}bfjf/x?**

k|:tfj sfof{Gjog x'g] If]qdf w]/} k|hftLsf hl8a'l6x? kfO{Ptfklg xfn a9L dfqfdf k|of]udf cfPsf u}/sfi7 jg k}bfjf/x? lgDgfg';f/ /x]sf 5g\ .

**tflnsf g+= !$ u}/sfi7 jg k}bfjf/x? / ltgLx?sf] pkfof]u**

| **qm=;+=** | **k|hflt** | **j}1flgs gfd** (Sciantific Name) | **pkof]lu efu** | **pkof]u** |
| --- | --- | --- | --- | --- |
| ! | vo/ | *Acacia catechu* | sf7 | sTyf / sr lgsflnG5, kfgdf /fVg], Zjf;k|Zjf; ;DalGw, kfr, s'i7 /f]u, 5fnf tyf of}g /f]u, /+u agfpg, Hj/f], x}hf |
| @ | ljifdf | *Aconitum specatum* | h/f jf sf08 | ljif lgsfn]/ dfq k|of]u ug'{ kb{5, skm, bd, 3f6L b'v]sf], Hj/f], cfp, kvfnf, sf6]sf] 3fp, ls/f jf d';f dfg{ / ljleGg cfo'j]{lbs cf}iflwdf k|of]u x'g] |
| # | af]emf] | *Acorus calamus* | h/f / kft | afy, bft b'v]df, skm, :j/e]b, cfpFk/]df, Hj/f], lbdfusf] 6lgssf] ?kdf, lx:6]l/of, 5f/] /f]u, dfgl;s /f]u, n'tf], bfb |
| $ | lrp/L | *Aesandra butyraceae* | kmn | u'bf vfg], aLpaf6 l3p lgsfNg], l3p lgsfn]sf] afFsL af]qmf df5f dfg{ k|of]u x'g] |
| % | l3ps'df/L | *Aloe vera* | u'bL | cfuf]n] kf]n]df, dlxjf/L ldnfpg, 6fpsf] b'v]df, slAhot, h'sf dfg{, lkmof] a9]df, ;f}Gbo{ ;fdfu|L agfpg, k]6sf ljljw /f]udf |
| ^ | tLt]kftL | *Artimesia vulgeris* | k'/} af]6 | n'tf] ePdf, k]6sf] ls/f jf h'sf dfg{, afy, bd, cfp, vf]sL, Uofli6s, t]n agfpg], cQ/ jf ;]G6 agfpg, ;fj'g, ljleGg cfo'j]{lbs cf}iflw agfpg |
| & | lgufnf] | *Arundinaria species* | sf08, 6';f / h/f | :yflgo ?kdf 8f]sf] gfDnf] tof/ ug]{, kmgL{r/x? agfpg], t/sf/L crf/sf] ?kdf k|of]u ug]{, ;bL{udL{ ldnfpg h/fsf] k|of]u x'g], k]6sf] h'sf Uofli6s ePdf h/fsf] /; agfP/ vfg] |
| \* | s'/Lnf] jf ;tfj/L | *Asparagus racemosus* | h/f jf d'gf | vf]sL nfu]df, tfut a9fpg, Hj/f] cfPdf, b'w a9fpg, of}gzlSt aw{s, t/sf/Lsf] ?kdf, ljleGg cfo'j]{lbs cf}klwdf ld;fj6 |
| ( | u'h/ufgf] | *Astible spps* | ufgf] | ufgf]uf]nf ePdf, rf}kfofnfO{ k]6 ;DaGwL c:j:ytf ePdf, h'sf k/]df, k]6 jf 6fpsf] b'v]df, ljleGg cfo'j]{lbs cf}iflwdf ld;fj6 |
| !) | ef]nf{ | *Bauhinia vahlii* | kft / af]qmf | 6k/L jf Kn]6 agfpg, af]s| bfDnf] gfDnf] agfpg, /utdf;Lsf] ;d:ofdf, /ut au]sf] /f]Sg, k]6 ;DalGw ;d:of ePdf |
| !! | rf}tf/f] jf r'qf] | *Berberis aristata* | k'/} af]6 | dn]/Lof, 5fnfsf] /f]u, lkmof] a9]df, emf8fkvnf nfu]df, /S;L agfpg, /+u agfpg |
| !@ | kfif0fj]b | *Berginia ciliate* | h/f jf sf08 | kTy/L lgsfNg ;xof]u ug]{, d'q/f]u of]gL/f]u ;d:of ePdf, Hofg b'v]df, Hj/f] cfPdf kvnf jf cfp kbf{ / of}g zStLaw{s |
| !# | nK;L | *Choerospondias oblonga* | kmn | vfgf ?rfpg], kfrg zlQm a9fpg], crf/sf] ?kdf, ld7fO{ agfOg] |
| !$ | t]hkft jf l;Gsf}nL | *Cinnamomum tamala* | kft / af]qmf | d;nf, k]6 b'v]df, of}g pQ]hgf a9fpg, t]n bft b'v]df, ljljw cQ/ jf ;'ulGwt a:t' tof/ ug{, kvnf /f]Sg, jfsjfls /f]Sg |
| !% | sfnf] d';nL | *Curculigo orchoides* | h/f | zStL aw{s, of}g pQ]hgf a9fpg], k]6sf] /f]udf, cN;/, h08L;, bd, kvnf, 3fp ;'sfpg, cfp, ugf]/Lof, 5fnfsf] /f]u |
| !^ | ;]tf] a?jf | *Daphne bhoula* | af]qmf, aLp, h/f | g]kfnL sfuh agfpg, aLp k]6sf ls/f h'sf dfg{, h/fsf] /; k]6 b'v]df, kft / af]s|f df5f dfg{ k|of]u ul/G5 |
| !& | af; | *Dendrocalamus species* | sf08 6';f / h/f | :yflgo ?kdf 8f]sf] gfDnf] tof/ ug]{, kmgL{r/x? agfpg], t/sf/L crf/sf] ?kdf k|of]u ug]{, ;bL{udL{ ldnfpg h/fsf] k|of]u x'g], k]6sf] h'sf Uofli6s ePdf h/fsf] /; agfP/ vfg] |
| !\* | lhjGtL | *Desmotrichum fimbriatum* | k'/} af]6 | ;s]{ds]{df nufpg], Hj/f] cfPdf, k]6sf] ;d:of ePdf, ?3fvf]sL, bd |
| !( | Eofs'/ | *Dioscorea deltoid* | ufgf] | ksfP/ vfg], h'd|f jf df5f dfg{, /utdf;L k/]df, sAhLot, Uofli6s, ue{lg/f]ws, cf}klw agfpg, 3fp vl6/f l7s kfg{, ckr, c?rL |
| @) | jg t?n | *Dioscorea pantaphylla* | kmn | 9f8 b'v]df, vfgfsf] ?kdf, h'sf dfg{ |
| @! | cdnf | *Emblica officinalis* | kmn, af]qmf, h/f | af]qmsf] /; cfp kbf{, Hj/f] cfpbf, sJhLot ePdf, gfs d'vaf6 /ut au]df, kmn kfrg a9fpg, vfgf ?lr a9fpg, lbzflk;fa v'nfpg, of}gzlQm a9fpg, lqkmnf agfpg, ;fj'g, t]n / crf/ agfpg |
| @@ | afljof] | *Eulaliopsis binate* | k'/} af]6 | sfuh agfpg k|of]u u/Lg], bfDnf] gfDnf] agfOg], e' ;+/If0f sf nflu clt pQd / h/f tyf kftsf] /;n] lk;fa v'nfpg ;xof]u ug]{ |
| @# | nx/] lu7\7f | *Galium hirtiflorium* | nx/f | t/sf/L vfg, ef+lrPsf] jf ;s]{ds]{df, 3fp kfs]sf] jf sf6]df, udsf] ?kdf |
| @$ | cNnf] jf rfNg] l;:gf] | *Girardinia diversifolia* | k'/} af]6 | af]s|fsf] /];faf6 sk8f a'Gg], d'G6fx? t/sf/Lsf] ?kdf k|of]u ug]{, z/L/df /utsf] dfqf sdL ePdf jf /StcNktf ePdf /; agfP/ lkpg], h/f ljleGg cfo'j]lbs cf}iflwdf k|of]u ug{ ;lsg] |
| @% | 3f]86fk|] jf 6f]k|] emf/ | *Hydrocotyle asiatica* | k'/} af]6 | clgb|f, :d/0f zlSt a9fpg], /Strfk ldnfpg], le/LGuL, 3fp lgsf] kfg{, ef]u hufpg, Uofli6s, :jKgbf]if, Hj/f], lbdfusf] 6lgs |
| @^ | c;'/f] | *Justicia adhatoda* | k'/}af]6 | ?3f vf]sL, bd, afy, Hj/f], a|f]GsfO6L;, hf]gL{ b'v]df, cfvf kf]n]df, ls6gfzs cf}iflwsf] ?kdf / 5fkf] /fVg |
| @& | jgdf/f | *Lantena camera* | kft | 5fkf] /fVg, uf]j/UofF; pTkfbgdf, 3fpsf6]df, g;f ;DalGw cf}iflw agfpg |
| @\* | ljnf}gL | *Maesa chisia* | af]qmf | bfnlrgLsf] af]qmf ;+u ld;fpg], d;nfsf] ?kdf k|of]u ug]{, ;fj'g jgfpg k|of]u x'g] |
| @( | k'bLgf | *Mentha arvensis* | kft | Uofli6s, cfp, kvnf, uld{ kmfNg], crf/ |
| #) | sfp;f] | *Mucuna pruriens* | aLp | of}g zlSt a9fpg, an a9fpg, xft sfDg 36fpg], afemf]kg x6fpg, lgoldt dlxgfjf/L agfpg], Hj/f] cfPdf |
| #! | sfkmn | *Myrica esculenta* | af]qmf / kmn | /ut au]sf] /f]Sg], k]6 ;kmf ug]{, Hj/f], bd, kvnf, a|f]GsfO6L;, 6fOkmfO8, bf+tb'v]sf], 6fpsf] b'v]sf], kmn l;w} vfg ;lsg], bfb'/f ePdf |
| #@ | t'n;L | *Ocimum tenuiflrum* | k'/} af]6 | Hj/f], a|f]GsfO6L;, hf]gL{ b'v]df, cfFvf kf]n]df, sfg b'v]df, kfrg zlSt a9fpg, bfFt b'v]df, lrof agfpg, pRr/Strfk ldnfpg, Uofli6s, k]6 b'v]df, t]naf6, ljljw ;'ulGwt j:t'x? tof/ ug{ |
| ## | r/LDnf] | *Oxalis corniculata* | k'/} af]6 | bf+t b'v]df, sfg b'v]df, k]6 b'v]df jf b'v]sf] efudf RofKg] |
| #$ | ;t'jf | *Paris polyphylla* | h/f jf sf08 | k]6sf] h'sf jf ls/f dfg{, sf6]sf] jf kfs]sf] 3fpdf nufpg], kvnf /f]Sg, ljif ;]jg ePdf emf]n agfO{ lkpg], zStLaw{s |
| #% | sf7]em\ofp | *Permelia nepalensis* | em\ofp | :yflgo ?kdf k|of]u gePtfklg ahf/sf] /fd|f] Joj:yf 5 / ljleGg ;'ulGwt a:t'x? tyf cfo'j]{lbs cf}iflw agfpg |
| #^ | sfpnf] | *Persea odoratissima* | af]qmf | /f]6L agfpg, lrKnf] kbfy{ agfpg, xf8 6'6]km'6]df, ljljw cfo'j]{lbs cf}iflw agfpg |
| #& | lkknf | *Piper longum* | k'/}af6 / kmn | d;nf, vf]sL, bd, h08L;, clgb|f, k]6 jf kfrg ;DalGw ;d:of ePdf, lrof klQsf] ?kdf / /S;L agfpg] drf{ agfpg |
| #\* | ?bLnf] | *Pogosstemon bengalensis* | kft | ?3f, vf]sL, Hj/f], h'sf k/]df, skm, lr;f] ePdf |
| #( | ;k{uGwf | *Rauvolfia serpentine* | h/f | emf8fkvnf, Hj/f], ;k{ jf ls/f 6f]s]df, clgb|f, pRr /Strfk ldnfpg |
| $) | nfnLu'/fF; | *Rhododendron arboreum* | km'n | k]6 ;DjGwL /f]u, kfrg zlQm a9fpg], h'; agfpg], ;hfj6, zlQmaw{s, cfp+k/]df, Uofli6«s ;d:of ePdf |
| $! | elsDnf] | *Rhus javanica* | kmn | kvnf nfu]df, k]6 ;DalGw ;d:of cfPdf, crf/ agfpg, ljljw cfo'j]{lbs cf}iflw agfpg |
| $@ | dlh7f] | *Rubia manjith* | k'/} af]6 | h08L;, sn]hf] ;kmf ug]{, hf]gL{ b'v]df, :j/ a;]df, ef]s a9fpg, h'sf k/]df, cfuf]n] kf]n]df |
| $# | l;nfhLt | *Styrax benjon* | rf]k | z/L/ b'v]df, ysfO{, :gfo' a9fpg], ;8\s] ds]{df, sdhf]/L x6fpg, k]6 ;DalGw ;d:of ePdf, ljljw cfo'j]lbs cf}iflw agfpg, of}gzlSt a9fpg |
| $$ | lr/fOtf] jf tLt] | *Swertia chirayita* | k'/} af]6 | ls/fdfg]{, Hj/f], cfvfF b'v]df, 3fpvl6/fdf, :jfb / vfgf ?rL a9fpg, cf}nf] Hj/L cfPdf, ljo/ pTkfbgdf |
| $% | x/f]{ | *Terminilia chebula* | kmn / af]qmf | sAhLot, vf]sL, :j/ ;'s]df, h08L;, kTy/L, /Strfk, cfp, emf8fkvnf, k]6 b'v]df, lqkmnf agfpg |
| $^ | v/ | *Themeda triandra* | kft | 3/ 5fpg], a:t'nfO{ v'jfpg], sfuh agfpg], kftsf] /; Uofli6ssf nflu pQd x'g] |
| $& | clDn;f] | *Thysanolaena maxima* | k'/}af]6 | s'rf] agfpg], df6f] ;+/If0fdf clt pQd, rf}kfofsf] k]6 ;DalGw ;d:of ePdf, h/fnfO{ ufgf]uf]nf ePdf jf k]6;DalGw ;d:ofdf k|of]u ug{ ;lsg] |
| $\* | u'hf{] nx/f] jf lrgLnx/f] | *Tinospora cordifolia* | nx/f | bd, vf]sL, a|f]GsfO6L;, Hj/f], h08L;, lk;fj ;DalGw ;d:of, zlSt aw{s, dw'd]x, lrof agfpg |
| $( | cfFvft/] | *Trichilia connaroides* | kmn | t]n lgsfNg ;lsg], ljljw cfo'j]{lbs cf}iflwdf ld;fj6 ug{ ;lsg], 3fpvl6/f ePdf, n'tf] cfPdf, bfb jf ;j}vfn] rd{ /f]u |
| %) | ;'uGwjfn jf ;dfof] | *Vallerina jatamasni* | h/f jf sf08 | d[uL{, d'vsf] SofG;/ jf cN;/, emf8fkvnf, k]6 b'Vg], wft', k|;'tLsf] ;d:of ePdf, ;'ulGwt cQ/ jf cu/alQ agfpg] |
| %! | l;dnL | *Vitex negunda* | kft | kfs]sf] 3fpdf, af/aGb]h ug{, e' ;+/If0fdf clt pQd, lkgf;, bd, vf]sL |
| %@ | l6d'/ | *Zanthoxylum armatum* | kmn | Uofli6s, bf+t b'v]df, d'v uGxfpg], an a9fpg], Hj/f], x}hf, crf/, d;nf, jg h'sf eufpg, ;'ulGwt t]n jgfpg, af]qmf :yflgo ?kdf df5f dfg{ |
| %# | l;N6Ld'/ | *Zanthoxylum oxyphyllum* | kmn, af]qmf, kft, h/f | d;nf, vf]sL, bd, h08L;, clgb|f, k]6 af kfrg ;DalGw ;d:of ePdf, 5fnfsf] bfb, ljifdfg{, z/L/ b'v]df, Uofli6s |
| %$ | ao/ | *Zizyphus zuzuba* | kmn | lr;f] x6fpg, bfb'/f ePdf, k]6sf] ljsf/ ePdf, crf/ agfpg] |

***>f]tM lkmN8 cjnf]sg u/L ;+sng ul/Psf]***

**kj{tdf kfO{g] k|ltjlGwt tyf juL{s[t jg:klt**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **l;=g+=** | **gfd** | **j}1flgs gfd** | **g]kfn ;/sf/** | **CITIES** | **IUCN** |
| ! | nf}7;Nnf | *Taxus baccata* | k|zf]wg ljgf lgsf;Ldf k|ltjlGwt | II |  |
| @ | cf]v/ | *Juglans regia* | ;+sngdf k|ltjlGwt | II |  |
| # | em\ofp | *Lichen spps* | ;+sngdf k|ltjlGwt |  |  |
| $ | ;'gfv/L | *Orchid spps* |  | II |  |

***k~rjlif{o jg Joj:yfkg sfo{of]hgf @)^#.^$ b]lv @)^&.^\****

**#=$=#=@= k|:tfj sfof{Gjog x'g] If]qdf kfO{g] jGohGt'x?**

jGohGt'sf] ljt/0f tyf pknAwtf d'Votof af;:yfgdf e/kb{5 . u}/sfi7 jg k}bfjf/ kfO{g] :yfgdf vf;u/L ls/f k|hftL jf ;fgf;fgf lhjx? / cln 7"nf ?vx? kfO{g] :yfgdf Hebivour tyf Carnivour k|hftLsf jGohGt'x? kfOG5g\ . k|:tfj sfof{Gjog x'g] If]qdf kfO{g] d'Vo Mamals, Birds, Fishes / Reptiles sf] ljj/0f tkl;ndf pNn]v ul/Psf] 5 .

**tflnsf g+= !% kj{t lhNnfdf kfOg] d'Vo d'Vo r/f k|hfltx?**

| **qm=;+=** | **g]kfnL gfd** | **c+u|hL gfd** | **j}1flgs gfd** | **kl/jf/** | **cj:yf** |
| --- | --- | --- | --- | --- | --- |
| ! | sfnf] ltqf | Black Patridge | *Francolinus fracolinus* | Phasianidae | R |
| @ | sfnLh | Kalij Pheasant | *Lophura leucomela* | Phasianidae | R |
| # | v8v8] xfF; | Gadwall | *Anas strepera* | Anatidae | Wv |
| $ | v}/f] 6fps] s:6s'6 | Brown-fronted Woodpecker | *Dendrocopus auriceps* | Picidae | R |
| % | GofpnL r/L | Great Barbet | *Megalaima virens* | Megalaimidae | R |
| ^ | dLnr/f | Coppersmith Barbet | *Megalaima haemacephala* | Megalaimidae | R |
| & | s'y|'s] | Blue-throated Kingfisher | *Megalaima asiatica* | Megalaimidae | R |
| \* | sf}jf ÷7]pjf | Indian Rollers | *Coracias bengalensis* | Coraciidae | R |
| ( | ;]tf] sG7] d6sf]/] | White-throated Kingfisher | *Halcyon smyrnensis* | Kalcyonidae | Sv |
| !) | ;fgf] km';|f] sf]OnL | Grey-billed Cuckoo | *Ca omantis passerines* | Cucilidae | R, II |
| !! | dbfgf ;'uf | Slaty-headed Parakeet | *Psittacula himalayana* | Psittacidae | R, II |
| !@ | b'gb'n | Jungle Owlet | *Glaucidium radiatum* | Strigidae | Wv |
| !# | df?n | Common Coot | *Fulica atra* | Rallidae | R, II |
| !$ | sfnf] rLn | Black Kite | *Milvus migrans* | Accipitridae | R, II |
| !% | ;]tf] lu4 | Egyptian Vulture | *Neophron percnopterus* | Accipitridae | R, II |
| !^ | 8u/ lu4 | White-rumped Vulture | *Gyps bengalensis* | Accipitridae | R, II |
| !& | v}/f] lu4 | Eurasian Griffon | *Gyps fulvus* | Accipitridae | Wv, II |
| !\* | uf]dfo' dxfrLn | Steppe Eagle | *Aquila nepalensis* | Accipitridae | R, M, II |
| !( | af}bfO{ | Common Kestrel | *Falco tinnunculus* | Falconidae | R |
| @) | c:sf]6] as'Nnf | Indian Pond Heron | *Ardeola grayii* | Ardeidae | M |
| @! | lrqs eb|fO{ | Bay-backed Shrike | *Lanius vittatus* | Laniidae | R |
| @@ | eb|fO{ | Long-tailed Shrike | *Lanius schach* | Laniidae | R |
| @# | :ofnkf]y|L nfdk'5]| | Red-billed Blue Magpie | *Urocissa erythrorhyncha* | Corvidae | R |
| @$ | sf]sn] | Rufous Treepie | *Dendrocitta vagabunda* | Corvidae | R |
| @% | sfu | House Crow | *Corvus splendens* | Corvidae | R |
| @^ | sfnf] sfu | Large-billed Crow | *Corvus macrorhynchos* | Corvidae | R |
| @& | nfdk'5|] /fgLr/L | Long-tailed Minivet | *Pericrtocotus etho;pgus* | Corvidae | R |
| @\* | r+rn] ch'{gfs | Bar-wing Flycatcher Shrike | *Hemipus picatus* | Corvidae | R |
| @( | 7"nf] t]+yf | Large Woodshrike | *Tephrodornis gularis* | Corvidae | R |
| #) | n6';s lj/xLr/L | Long Cuckoo-shrike | *Coracina novaehollandiae* | Corvidae | R |
| #! | s]z/fh lrj] | Spangled Drongo | *Dicrurus hottentottus* | Corvidae | R |
| #@ | sfn] lrj] | Black Drongo | *Dicrurus macrocercus* | Corvidae | R |
| ## | kx]+nf] df?gLr/L | Yello-bellied Fantail | *Rhipidura hyhpoxantha* | Corvidae | R |
| #$ | v}/f] a+h'n | Brown Dipper | *Cinclus pallasii* | Corvidae | R |
| #% | Zofd Zj]t ch'{gfs | Little Pied Flycatcher | *Muscicapa westermanni* | Muscicapidae | R |
| #^ | Wjf+;] ch'{gfs | Dark-sided Flycatcher | *Muscicapa siribica* | Muscicapidae | Sv |
| #& | sfn] em\oflK; | Pied Bush Chat | *Sacocola caprata* | Muscicapidae | R |
| #\* | r+rn] ch'{gfs | Grey-headed Canary Flycatcher | *Cilococala ceylonsis* | Muscicapidae | M |
| #( | wf]ljgL v+h/L | Blue-capped Rock Thrush | *Monticola cinclorhynchus* | Muscicapidae | Sv |
| $) | xhf/ r+r/ | Chestnut-bellied Rock Thrush | *Monticolarufiventris* | Muscicapidae | R |
| $! | sfnLsNr'8f | Blue Whistling Thrush | *Myiophoneus ceruleus* | Muscicapidae | R |
| $@ | wf]ljgL r/L | Oriental Magpie Robin | *Copsychus saularis* | Muscicapidae | R |
| $# | tfgfsDkf v+h/L | Hodgson’s Redstart | *Phoenicurus hodgsoni* | Muscicapidae | Wv |
| $$ | v]tf]6fps] hnv+h/L | White-capped Water Redstart | *Chaimarrornis leucocephalus* | Muscicapidae | R |
| $% | gLnfDa/ hnv+h/L | Plumbeous Water Redstart | *Rhyacornis fuliginosus* | Muscicapidae | R |
| $^ | u+uf vf]n] wf]ljgL | Little Fork tail | *Enicurus scouleri* | Muscicapidae | R |
| $& | ?kL | Common Myna | *Acridotheres tristis* | Sturnidae | R |
| $\* | lrrLnsf]6] | Great Tit | *Parus major* | Paridae | R |
| $( | kf08' lrrLnsf]6] | Black-lored Tit | *Parus xanthogenys* | Paridae | R |
| %) | 3/ uf}+ynL | Barn Swallows | *Hirundo rustica* | Hirundinidae | R |
| %! | h'Nkm] h'/]nL | Himalayan Bulbul | *Pycnonotus leucogenys* | Pycnonotidae | R |
| %@ | h'/]nL | Red-vented Bulbul | *Pycnonotus leucogenys* | Pycnonotidae | R |
| %# | kftl;pg] lkm:6f] | Common Tailorbird | *Pycnonotus cafer* | Sylviidae | R |
| %$ | l6d'Nsf/L lkm:6f] | Grey-hooded Warbler | *Orthotomus sutorius* | Sylviidae | R |
| %% | uf]w'nL lkm:6f] | Dusky Warbler | *Scicercus xanthoschistos* | Sylviidae | Wv |
| %^ | 7'nf]ws]{ lkm:6f] | Western Crowned Warbler | *Phylloscopus occipitalis* | Sylviidae | Wv |
| %& | lxpF h'/] tf]/Luf+8f | White-crested Laughing Thrush | *Garrulax leucolophus* | Sylviidae | R |
| %\* | sfnf] a'+u]r/f | Purple Sunbird | *Nectarinia asiatica* | Nectarinidaea | R |
| %( | l;k/fh a'+u]r/f | Crimson Sunbird | *Aethopyga siparaja* | Nectarinidaea | R |
| ^) | 3/ e+u]/f | House Sparrow | *Passeer domesticus* | Passeridae | R |
| ^! | ?v e+u]/f | Eurasian Tree Sparrow | *Passer montanus* | Passeridae | R |
| ^@ | ;]tf]9f8] d'gLof | White-rumped Munica | *Lonchura striata* | Passeridae | R |
| ^# | ?v r'Oof | Olive-backed Pitpit | *Anthus hodgsoni* | Passeridae | R |
| ^$ | vf]n] l6sl6s] | White-browed Wagtail | *Montacilla maderaspatensis* | Passeridae | Wv |

***Source: Environmental Impact Assesssment Report, 2061 by Sunrise Rosin and Terpenrtine***

**tflnsf g+= !^ kj{t lhNnfdf kfOg] d'Vo d'Vo :tgwf/L k|hfltx?**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **qm=;+=** | **g]kfnL gfd** | **c+u]|hL gfd** | **j}1flgs gfd** | **kl/jf/** | **Order** | **CITES** | **IUCN** |
| ! | lrt'jf | Leopard | *Panthera pardus* | Felidae | Carnivora | I | LR/lc |
| @ | jg lj/fnf] | Jungle Cat | *Felis chaus* | Felidae | Carnivora | II | LR/lc |
| # | :ofn | Golden Jackle | *Canis aureus* | Canidae | Carnivora | III |  |
| $ | dn;fk|f] | Yellow-thoroated Marten | *Martes flavigula* | Canidae | Carnivora | III |  |
| % | cf]6 | Smooth Otter | *Lutra perspicillata* | Mustelidae | Carnivora |  | V |
| ^ | v}/f] nf]vs]{ | Hoary-bellied Squirrel | *Callosciurus pygerythrus* | Sciuridae | Rodentia |  |  |
| & | b'lD; | Indian Porcupine | *Hystrix indica* | Hystricidae | Rodentia |  |  |
| \* | GofpnL d';|f] | Common Mongoose | *Herpestes edwaqrdusii* | Herpestidae | Rodentia | III |  |
| ( | /ftf] afb/ | Rhesus Macaque | *Macaca mulatta* | Ceropithecidae | Primates | II | LR/nt |
| !) | n+u'/ afb/ | Common Langur | *Preshytes entellus* | Ceropithecidae | Primates | I | LR/nt |

***Source: Environmental Impact Assesssment Report, 2061 by Sunrise Rosin and Terpentine***

**tflnsf g+= !& kj{t lhNnfdf kfOg] d'Vo d'Vo df5f k|hfltx?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **qm=;+=** | **g]kfnL gfd** | **j}1flgs gfd** | **kl/jf/** | **Order** | **s}lkmot** |
| ! | sTn] | *Acrossocheilus hexagonolepis* | Cyprinidae | Cypriniformes | Common |
| @ | a'b'gf | *Garra gotyla* | Cyprinidae | Cypriniformes | Common |
| # | nf]x/L a'b'gf | *Garra annandalei* | Cyprinidae | Cypriniformes |  |
| $ | kmu]6f | *Barillus shacra* | Cyprinidae | Cypriniformes |  |
| % | u'bL{, /x' | *Labebo dero* | Cyprinidae | Cypriniformes |  |
| ^ | c;nf | *Schizothorax molesworthii* | Cyprinidae | Cypriniformes | Common |
| & | ;x/, dxfl;/ | *Tor putitoa* | Cyprinidae | Cypriniformes |  |
| \* | u8]nf kf6]uf]O6f | *Noemacheilus beavani* | Cobitidae | Cypriniformes |  |
| ( | af3L | *Botia almorhae* | Cobitidae | Cypriniformes |  |
| !) | uf]r, a3O | *Bagarius bagarius* | Cobitidae | Cypriniformes |  |
| !! | r]kf | *Glyptpthorax cavia* | Cobitidae | Cypriniformes |  |
| !@ | sa|] | *Pseudechenis sulcatus* | Cobitidae | Cypriniformes | Common |
| !# | /fhafd | *Anguilla bengalensis* | Anguillidae | Anguillidae |  |
| !$ | afd | *Amphipnous cuchia* | Amphipnoidae | Symbranchchiformes |  |

***Source: Environmental Impact Assesssment Report, 2061 by Sunrise Rosin and Terpentine***

**tflnsf g+= !\* kj{t lhNnfdf kfOg] d'Vo d'Vo 3;|g] tyf peor/ k|hfltx?**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **qm=;+=** | **g]kfnL gfd** | **c+u]|hL gfd** | **j}1flgs gfd** | **kl/jf/** | **Order** | **CITES** | **IUCN** |
| ! | ;k{ | Common Cat Snake | *Bioga trigonata* | Colubridae | Squamata |  |  |
| @ | wfdg | Rat Snake | *Pytas mucosus* | Colubridae | Squamata | II |  |
| # | ;'g uf]xf]/f] | Golden Monitor | *Varanus flaveescens* | Colubridae Colubridae | Squamata | I | LR/lc |
| $ | x/]k jf x/]p | Green Pit Viper | *Trimeresurus spps* | Colubridae | Squamata |  |  |
| % | ;k{ | Himalayan Keelback | *Rhabdophis hymalayanus* | Colubridae | Squamata |  |  |
| ^ | 5]kf/]f | Common Agamid Lizard | *Calottes versicolor* | Agamidae | Squamata |  |  |
| & | dfp;'nL | Wall Lizard | *Hamidactylus spps* | Geckonidae | Squamata |  |  |
| \* | Eofu'tf | Frog | *Rana tigrina* | Ranidae | Anura | II |  |
| ( | v;]{ Eofu't] | Toad | *Buffo spps* | Ranidae | Anura |  |  |

***Source: Environmental Impact Assesssment Report, 2061 by Sunrise Rosin and Terpentine***

**tflnsf g+= !( kj{t lhNnfdf kfOg] d'Vo d'Vo ls/fkm6\ofu|f (Arthopoda) k|hfltx?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **qm=;+=** | **g]kfnL gfd** | **c+u|]hL gfd** | **j}1flgs gfd** | **kl/jf/** | **Order** |
| ! | sfutL k'tnL | Lima Swallowtail Butterfly | *Papilio demoleus* | Pailionidae | Lepidoptera |
| @ | uf}ynL k'R5] k'tnL | Swallow-tail Butterfly | *Papilio polyctor* | Papilionidae | Lepidoptera |
| # | ;]tf] k'tnL | Cabbage Butterfly | *Pieris brassica* | Pieridae | Lepidoptera |
| $ | ;]tf] k'tnL | Horsefield | *Gandaca spps* | Pieridae | Lepidoptera |
| % |  | Red Admiral Butterfly | *Aglais spps* | Nymphalidae | Lepidoptera |
| ^ | ;]tf] ws]{ k'tnL | Himalayan Segeant | *Athyma opalina* | Nymphalidae | Lepidoptera |
| & | s}nf] k'tnL | Common Evening Brown | *Melanitis leda* | Satyridae | Lepidoptera |
| \* | af3] k'tnL | Tiger Butterfly | *Salartira spps* | Danidae | Lepidoptera |
| ( | km6\of+u|f | Short-horn Grasshopper | *Cantato sppps* | Acrididae | Lepidoptera |
| !) | km6\of+u|f | Grass Hopper | *Cantato sppps* | Acridadae | Orthoptera |
| !! | ed/f | Bumble Bee | *Xylocope spps* | Apididae | Hymenoptera |
| !@ | le/ dfx'/L | Rock Bee | *Apis dorsata* | Apididae | Hymenoptera |

***Source: Environmental Impact Assesssment Report, 2061 by Sunrise Rosin and Terpentine***

;+s]t

**DD =** tYofÍ gk'u ePsf], **EN =** ;+s6fkGg, **VU =** clt;+a]bgzLn, **T =** Threathend

**LR/lc =** sd hf]lvdk"0f{df sd ;/f]sf/ ePsf] **LR/nc =** sd hf]lvdk"0f{df k|foM k|;:t ePsf] \_

;fO{l6; cg';"rL M

I= ;+s6fkGg cj:yfdf /x]sf] II = b'n{e x'b} uPsf] III= Jofkf/ lgoGq0f x'g' kg]{

**efu $**

**k|:tfjsf] ljsNk ljZn]if0f**

**(Alternative Analysis)**

# **$=!= k|:tfjsf] ljsNk ljZn]if0f**

jftfj/0fLo k|efj cWoogsf] qmddf ljsNk ljZn]if0fnfO{ dxTjk"0f{ c+usf] ?kdf lnOPsf] 5 . o;n] k|:tfj sfo{fGjg If]qdf b]vfkg]{ y'k|} ;+efjgfx?dWo] jftfj/0fLo b[li6sf]0fn] ;a}eGbf pko'Qm ljsNknfO{ 5fGg] cj;/ k|bfg ub{5 . o;n] jftfj/0f–d}qL sfo{qmdx?sf] klxrfg / sfof{Gjogdf hf]8 ;d]t lbG5 . jftfj/0f ;+/If0f lgodfjnL, @)%$ sf] cg';"rL–^ sf] ;Gbe{df ljZn]if0f ug'{kg]{ ljsNkx?dWo] lgDg ljsNkx? klxrfg u/L x/]ssf ;s/fTds / gs/fTds kIfx?sf] ljZn]if0f u/L pko'Qm ljsNk 5gf}6 ul/Psf] 5 M

ljsNk ! M k|:tfj sfof{Gjog g} gug]{ jf

ljsNk @ M k/Dk/fut ljlwåf/f k|:tfj sfof{Gjog ug]{ jf

ljsNk # M j}1flgs jg Aoj:yfkg k|0ffnL cg'z/0f u/L k|:tfj sfof{Gjog ug]{ .

# **$=@ ljsNkx?**

# **ljsNk ! k|:tfj sfo{fGjog gug]{**

of] ljsNkn] lhNnfleq /x]sf] jg>f]tsf] ;+sng / pkef]u lans'n} gug]{ / h] h:tf] k|fs[lts cj:yfdf jg>f]t 5 ;f]xL cj:yfdf g} /xg lbg'k5{ eGg] s'/fdf hf]8 lbG5 . of] ;+/If0fd'vL cjwf/0ffdf cfwfl/t ljsNk xf] hxfF k|fs[lts jftfj/0fnfO{ pRr dxTj t lbOG5 t/ cfly{s / ;fdflhs kIf eg] k"0f{{ j]jf:tf ug]{ ul/G5 . jftfj/0fLo b[li6sf]0fn] jg>f]tdfly dfgjLo x:tIf]k /f]sL h}ljs ljljwtfsf] ;+/If0f / jgsf] x}l;otdf ;'wf/ cflb o;sf ;kmn / ;sf/fTds kIf x'g\ eg] hgtfsf jgk}bfj/;+u ;DalGwt cfwf/e"t cfj:ostf k'/f gx'g], sltko jgk}bfj/ ;l8unL v]/ hfg], ;/sf/L /fh:j ;+sng, jg k}bfjf/df cfwfl/t pBf]u / pBdlzntf tyf :yfgLo?kdf ;[hgf x'g] /f]huf/L k|efljt eO{ :yfgLo / /fli6«o cy{tGqdf ;d]t c;/ kg{ ;Sg] ePsf] x'Fbf of] ljsNk 5gf}6 ug{ ;Sg] cj:yf b]lv+b}g . k"0f{ ;+/If0fdf s]lGb|t /xg' k/]sf]n] jg sd{rf/Lsf] pRr ;ts{tf, yk k|zf;lgs vr{ / sfg"gL em~em6, d'4f÷dfldnf ug'{kg]{ o;sf yk gsf/fTds kIf x'g\ .

**ljsNk @ k/Dk/fut ljlwåf/f k|:tfj sfo{fGjog ug]{**

jgsf] x}l;ot, pTkfbsTj / ;+efJotfnfO{ k"0f{ j]jf:tf u/]/ jgk}bfjf/sf] ;b'kof]u ul/g] x'gfn] lbuf] jg Joj:yfkgsf] nflu of] k4lt jfws dflgG5 . cNksfnLg ?kdf hgtfsf] cfwf/e't jghGo cfjZostfsf] k"lt{, jgdf cfwfl/t pBf]ux?nfO{ sRrf kbfy{ pknAw u/fpg], /f]huf/L ;[hgf, /fh:jdf a9f]Q/L eO{ :yfgLo tyf /fli6«o cy{tGqdf 6]jf k'u]sf] b]lvPtf klg lbuf] / j}1flgs jg Joj:yfkg kIfnfO{ eg] o;n] k"0f{tM a]jf:tf u/]sf] b]lvG5 . s'g} n]vfhf]vf gu/L clgolGqt t/Lsfn] k/Dk/fut lalwåf/f jg k}bfjf/x?sf] ;Íng tyf laqmL ljt/0f ubf{ >f]tsf] pknAwtf s] slt 5 < alif{s j[l4 s] s:tf] 5 < cflbaf/] cWoog gx'g] xF'bf lgoGq0f ug{ ufx|f] x'g], cbIf dflg;x?af6 ;do l;df g/fvL jg k}bfjf/ ;Íng ug]{, jg k}bfjf/ ;Ínsx?nfO{ ;f] sf] dxTj, d"No, ;Íng ljlw, JolQmut ;'/Iff nufotsf s'/fx?sf] hfgsf/L gx'g] / hyfefjL s'g} 1fg, ;Lk / ;ts{tf lagf jgk}bfjf/ ;Íng ubf{ lj?jfsf] nflu aLpm;d]t g/xg], ax'pkof]uL k|hftL nf]k x'g ;Sg], o;af6 kof{j/0f tyf kfl/l:yltsLo k|0ffnLdf g/fd|f] c;/ kg'{sf] ;fy} ;/sf/L /fhZj ;+sng klg bLuf] gx'g], jg k}bfjf/df cfwfl/t pBf]ux?n] lg/Gt/?kdf sRrf kbfY{f k|fKt ug{ g;Sg] tyf :yfgLo hgtfn] kfpg] /f]huf/L tyf cfly{s—;fdflhs ljsf; ;d]t k|eflj x'g] b]lvG5 . t;y{ o;nfO{ klg /fd|f] ljsNk dfGg ;lsb}g .

# **ljsNk # j}1flgs jg Aoj:yfkg k|0ffnL cg';f/ k|:tfj sfo{fGjog ug]{**

k|fs[lts jf s[lqd?kdf pknAw jg>f]tsf] ;b'kof]u klg gug'{ jf ;b'kof]u ubf{ klg k/Dk/fut ÷cj}1flgs tj/n] ug'{ b'j} ljsNkx? jg Joj:yfkgsf] b[li6sf]0faf6 pko'Qm dflgb}gg\ . o;sf] ljsNksf] ?kdf jgIf]qnfO{ j9L pTkfbglzn jgfpg], hgtfsf] b}lgs Pj+ :yfgLo cfjZostf k"/f ug]{, lg/Gt/ /f]huf/Lsf cj;/x? ;[hgf ug]{, :yfgLo Pj+ /fli6«o cy{tGqnfO{ ;d]t 6]jf k'¥ofpg] p2]Zon] jgIf]qsf] j}1flgs Joj:yfkg;lxt sfjf{Gjog ug{sf] nflu of] ljsNk cl3 ;fl/Psf] 5 .

k|:tfj sfo{Gjo ug{ vf]h]sf] If]qdf kfOg] k|hfltx?sf] >f]t ;e]{If0f u/L ltgLx?sf] cj:yf, pknAwtf, jflif{s j[l4 tyf ;+sng ug{ ;lsg] kl/df0f ;d]tsf] n]vfhf]vf u/L jgsf] x}l;otdf k|lts"n k|efj gkg]{ u/]/ j}1flgs ljlw4f/f jg k}bfjf/x? ;Íng / ljt/0f ug]{ tyf pkof]uL / d"Nojfg khftLx?sf] cToflws bf]xg e} jgIf]qdf lj?jfsf] nflu aLpm g} g/xg u} nf]k x'g;Sg] vt/faf6 hf]ufpg], jgsf] x}l;otdf x|f; x'g glbg] ljlw / tl/sfaf6 ;Íng / ljt/0fsf] dfkb08 lgwf{/0f u/L jf lgwf{l/t dfkb08sf] kfngfnfO{ s8fO{k"j{s nfu" u/L jgsf] Joj:yfkg / ;+/If0fdf ;'wf/ Nofp+b} jg>f]tsf] bLuf] Joj:yfkg tyf ljsf; ug{ / jgIf]qnfO{ pTkfbglzn jg (Production-Oriented Forest) sf] ?kdf ljsf; ug{ of] k|:tfj k|:t't ul/Psf] 5 . /fli6«o jgdf /x]sf ;l8unL hfg] / k|fljlws / sfg"gL b[li6sf]0fn] x6fpg pko'Qm x'g] sf7 bfp/f ;+Íng ubf{ cGo jf]6 lj?jfx?sf] j[l4, ljsf; Pj+ k|fs[lts k'g?TkfbgnfO{ k|lts"n c;/ gkg]{ u/L ;Íng tyf Joj:yfkg ul/g]5 . u}/sfi7 jg k}bfjf/sf] xsdf k|fs[lts k'g?TkfbgnfO{ b[li6ut u/L 3'lDtrqm nfu' u/L ;Íng ul/g]5 . 9'Ëf, lu§L, afn'jf ;Íng ubf{ kfgLdf /xg] hLjhGt' tyf e"–Ifodf ;d]t c;/ gkg{] u/L ;+sng tyf cf];f/ k;f/sf] Joj:yf ldnfOg]5 . ;+sngsf] nflu tflnd, jgk}bfjf/s]f d"No, dxTj, ;+sng ljlw, ;do h:tf ljifox?nfO{ tflnsf jgfO{ jgk}bfjf/ ;+sng ul/g] x'gfn] klg b'?kof]u sd x'g] / jgsf] ;+lrlt cg';f/ x}l;ot gljuf/L jgk}bfjf/sf] k"0f{tM ;b'kof]u x'g ;Sg] b]lvG5 . t;y{, lbuf] jg Joj:yfkgsf tLgj6} dxTjk"0f{ kIfx? -;fdflhs, cfly{s / jftfj/0fLo\_ nfO{ o;n] k"0f{tM ;d]6\g] x'gfn] klg of] o;nfO{ ;a}eGbf pko'Qm ljsNksf]?kdf k|:tfj ul/Psf] 5 .

# **$=# ljsNkx?sf] jftfj/0fLo k|efjsf] t'ngfTds k|efjx?sf] ljZn]if0f**

pNn]lvt ljsNkx?sf]af/]df 5nkmn u/L s'g} Pssf] 5gf}6 ug'{kbf{ To;sf] cg's'n Pj+ k|lts"n k|efjx?sf] k"0f{tM ljZn]if0f u/L lgisif{df k'Ug' kg]{ x'G5, h;af6 yf]/} gf]S;fgLdf clwstd\ kmfObf k|fKt ug{, k|lts"n k|efjx?nfO{ sd u/fpg / cg's"n k|efjnfO{ clwstd\ pkof]u ug{ ;lsof];\ . o; k|of]hgsf] nflu k|:tfj sfo{fGjogsf tLgj6f ljsNkx?nfO{ lgDg tflnsfdf t'ngfTds?kdf ljZn]if0f ul/Ps]f 5 .

*tflnsf g+= @)M cg's"n / k|lts"n k|efjx?sf] ljj/0f*

|  |  |  |
| --- | --- | --- |
| **ljsNk !–k|:tfj sfo{fGjog gug]{** | | |
| **Jftfj/0f** | **cg"s"n jftfj/0fLo k|efj** | **k|lts"n jftfj/0fLo k|efj** |
| **Ef}flts** |         e"–Ifodf sdL |         :yfgLo :t/df /f]huf/L / cfly{s pkfh{gdf sdL cfpg] |
|         k|fs[lts ;f}G+bo{ a9\g] |         jg k}bfj/sf] dfu / cfk'lt{df ;Gt'ng gx'g] |
|         Af]f6 lj?jfx?sf] xflg gf]S;flgdf sdL x'g] |  |
|         jg k}bfjf/sf] df}Hbftdf j[l4 |  |
|         jftfj/0fdf ;+t'ng |  |
| **h}ljs** |         h}ljs ljljwtf / kfl/l:yltsLo k|0ffnLsf] ;+/If0f |         pTkflbt kmnkm'n, hl8a'l6x? s'x]/ jftfj/0f k|b'if0f x'g] |
|         j+zf0f' >]ft ;+/If0f |         jg k}bfjf/sf] ;Íng gx'+bf ;b'kof]u geO{ s'lxP/ v]/ hfg] |
|         k|fs[lts ca:yfdf /x]sf jg tyf jg:klts]f ;+/If0f / j[l4 |         cf}Bf]lus ljsf;df 6]jf gk'Ug] . |
| **;fdflhs** |         :yfgLo ;d'bfox?n] lkpmg / l;+rfO{sf] nflu kfgL ;tt\?kdf k|fKtu/L, s[lif pTkfbgdf j[l4 Nofpg] |         jgIf]qsf] sfo{df ;+nUg :yfgLo hgzlQm lj:yflkt x'g] ;fdfhLs /xg;xg vnalng ;Sg] . |
|         jg k}bfj/sf] ;+sngdf aflx/L dflg;x? gcfpg] xFbf ;dfhdf s'g} k|efj gkg]{ . |         jgIf]qaf6 k|fKtx'g] /f]huf/Lsf cj;/x? u'Dg] . |
|  |         :yfgLo ljsf; lgdf{0f sfo{df cfj:os sRrf kbfy{ gkfpbf k|lts"n c;/ kg]{ . |
|  |         sRrf kbfy{sf] cfk"lt{ gx'+bf pBf]u k|efljt x'g] jf ljb]zsf] e/ kg'{ kg{] . |
|  |         /fhZj gp7\bf cy{tGqdf k|lts"n c;/ kg]{, |
|  |         /f]huf/sf] cefjdf hgzlSt knfog x'g ;Sg] |
| **Wffld{s–;fF:s[lts** |         jg k}bfj/sf] ;Íngdf aflx/L dflg;x? gcfpg] x'Fbf wd{ / ;:s[lt / ;fdflhs k/Dk/fdf s'g} aflxl/of k|efj gkg]{ . |         k/Dk/fut ?kdf rlncfPsf] cf}ifwLdf k|of]ux'g] hl8a'l6, 3/5fpg] v/, cflb k|fKt gx'g] |
|         :yfgLo hg;d'bfosf] jg ;+/If0f / Joj:yfkgsf] sfo{df ;xeflutf sd x'g] . |
| **ljsNk @– k/Dk/fut ljlwåf/f k|:tfj sfof{Gjog ug]{** | | |
| **Ef}flts** |         :jtGq?kdf h'g;'s} ;do cToflws kl/df0f ;Íng x'g] / ;Íng ug{ ;lsg] . |         jftfj/0fLo x|f;sf k|efjx? b]lvg] . |
|         s] slt ;Íng ug]{ eGg] dfkb08 gx'g] xF'bf dfu eP hlt ;Íng ug{ ;lsg] . |         jg k}bfjf/sf] ;xL ;'b'kof]u gx'g] . |
|         sd nfutdf jg k}bfj/ ;Íng x'g] |         jg>f]]tsf] cToflws bf]xg x'g] . |
|         :yfgLo pBf]unfO{ lgoldt t/ cNksflng ?kdf sRrf kbfy{ k|fKt x'g] . |         gbL tyf vf]nfx?df 9+'‹f, lu6L / afn'jf lemSbf ulx/fO{ a9\g u} lsgf/x?df klx/f] hfg ;Sg] . |
|  |         ef}lts ;+/rgf h:t}M k'n sNe6{sf] glhs 9+'‹f, lu6L / afn'jf lemSbf lt ;+/rgfx? eTsg ;Sg] . |
|  |         sf7 bfp/fsf] ;Íngdf dfgjLo Iflt ;d]t x'g ;Sg] |
| **h}ljs** |         h}ljs ljljwtf / kfl/l:yltsLo k|0ffnLsf] ;+/If0f, j+zf0f' >]ft ;+/If0f, tkm{ Wofglbg gkg]{ x+'bf sfo{ ;+rfngdf ;xhtf . |         dxTjk"0f{ ax'pkof]uL k|hfltx? nf]k x'g uO{ h}ljs ljljwtfdf x|f; cfpg]. |
|         cToflws k|of]usf sf/0f :yfgLo jg:klt / jGohGt'df kl/jt{g cfpg]. |
| **;fdflhs** |         s'g} ;Lk / k|ljlwsf] ;fy} bIf hgzlQm cfjZos gkg]{ |         lg/Gt/?kdf /f]huf/L pknJw gx'g] x'Fbf ;Lkd'ns hgzlQm lj:yflkt x'g] |
|         jg k}bfj/sf] ;Íngdf aflx/L dflg;x? klg cfpg] xF'bf efO{rf/fsf] efjgfdf ljsf; x'g] . |         aflx/L dflg;x?sf] cfudgaf6 jftfj/0fdf k|b'if0f x'g] . |
|         ;Íngsf] j}1flgs k|s[ofsf af/]df hfgsf/L cfjZos gkg]{ . |         ;dflhs ;+/rgfdf lau|g ;Sg] . |
|  |         :yfgLo:t/df /f]huf/L / cGo cfo cfh{gsf cj;/x? 36\b} hfg] . |
| **Wffld{s–;f:s[lts** |         jg k}bfj/sf] ;Íngdf aflx/L dflg;x? klg cfpg] xF'bf efO{rf/fsf] tyf wd{ / ;:s[ltsf] b]vfl;ls tyf cfbfg k|bfg x'g] . |         ;fdflhs /xg;xg, e]ife'iffdf k/Ljt{g cfpg] . |
|         aflx/af6 v/fa dflg;x?sf] cfudg ePdf wd{, ;:s[lt / ;fdflhs ;b\efjdf vnn k'Ug ;Sg] . |
| **ljsNk #–j}1flgs jg Aoj:yfkg k|0ffnL cg';f/ k|:tfj sfo{fGjog ug]{** | | |
| **Eff}lts** |         :yfgLo pBf]unfO{ sRrf kbfy{ :yfoL / bLuf] ?kdf k|fKt x'g] . |         dfgjLo ultljlwsf sf/0f jgdf st}st} e"–Ifo x'g ;S5 . |
|         hg;xeflutfdf j[l4 eO{{ :yfgLo hg;d'bfoaf6 jg ;+/If0f, ;Dj4{g sfo{df ;sf/fTds k|efj kg]{ . |         lgotj; (intentionally) cfunfuL x'g ;Sg] . |
|         jftfj/0fLo k|lts"n k|efj 36g uO{ ;sf/fTds k|efj a9g hfg] |         Dfflg;x? cfjt hfjt ubf{ uf]/]6f af6f tyf uf8Lx? hfg]af6fx?df Soil Compact e} lj?jfsf] pTkfbgdf cj/f]w cfpg ;Sg] . |
|         ;l8unL hfg] jg k}bfjf/sf] ;b'kof]u x'g] . |         gbL tyf vf]nfx?df 9'‹f, lu6L / afn'jf lemSbf ulx/fO{ a9\gu} lsgf/x?df klx/f] hfg ;Sg] . |
|         dfu / cfk"lt{sf] l:ylt ljZn]if0f u/L ;+lrtL ;d]t ug{ ;lsg] . |         ef}lts ;+/rgf k'n sNex'6{sf] glhs 9'‹f, lu6L / afn'jf lemSbf lt ;+/rgfx? eTsg ;Sg] . |
|  |         sf7 bfp/fsf] ;Íngdf dfgjLo Iflt ;d]t x'g ;Sg] . |
| **h}ljs** |         jg k}bfjf/sf] bLuf] Joj:yfkg x'g] / nf]kf]Gd'v k|hfltsf] ;+/If0f / ljsf;sf ;fy} :yfgLo txdf k|ljlw x:tfGt/0f x'g] |         jGohGt"x? cf]xf]/ bf]xf]/ ug]{ af6f] / af;:yfgdf k|efj kg{ ;Sg] . |
|         cGo ljleGg pkof]uL k|hftLs]f klxrfg x'g] . |         jg k}bfj/ sf6\bf, cf];fbf{ ;–;fgf jf]6 lj?jf tyf lhjhGt'x? dg]{ / xfgL gf]S;fgL x'g ;Sg] . |
|         jg k}bfjf/sf] aLpm pTkfbg tyf j+zf0f' >f]t ;+/If0fdf d2t ldNg] . |         gbL tyf vf]nfx?df hn k|b'if0f e} hnr/ k|f0fLx?nfO{ c;/ ug{ ;Sg] . |
|         h}ljs ljljwtf / kfl/l:yltsLo k|0ffnLsf] ;+/If0f x'g] . |  |
| **;fdflhs** |         :yfgLo:t/df yk /f]huf/Lsf cj;/ l;h{gf eO{ cfly{s tyf ;fdflhs ljsf;df yk 6]jf k'Ug] . |         kmf]xf]/ d}nf tyf k|b'if0f a9g ;Sg] . |
|         bLuf] ?kdf /fhZj k|fKt eO{ /fli6«o cfodf j[l4 x'g] . |         :yfgLo?kdf bIf hgzlQm pknAw x'g g;s] :yfgLo hgzlQmn] /f]huf/ kfpg g;Sg] h;af6 åGb ;[hgf x'g ;Sg] . |
|         cg';Gwfg tyf cWoogdf d2t ldNg] . |         a9L vlr{nf] x'g] . |
|  |         /f]huf/Laf6 cfDbfdL a9\g u} k};fsf] b'?kof]u u/L hfF8/S;L h:tf s'ntaf6 ;dflhs jftfj/0f vnalng ;Sg] . |
| **Wffld{s–;fF:s[lts** |         jg k}bfj/sf] ;Íngdf aflx/L dflg;x? klg cfpg] xF'bf efOrf/fsf] tyf wd{ / ;:s[ltsf] b]vfl;ls tyf cfbfg k|bfgx'g] . |         ;fdflhs /xg;xg, e]ife'iffdf k/Ljt{g cfpg ;Sg] . |
|         aflx/af6 v/fa dflg;x?sf] cfudg ePdf wd{, ;:s[lt / ;fdflhs ;b\efjdf vnn k'Ug ;Sg] . |

# **$=$= ljsNkx?sf] cg's"n jftfj/0fLo k|efjx?sf] t'ngfTds ljZn]if0f**

k|:tfjsf] dfly pNn]lvt k|d'v # j6f ljsNkx? sfof{Gjog ul/Pdf To;af6 kg{ ;Sg] cg's"n k|efjx? lgDg adf]lhd k|:t't ul/Psf]5 . k|:tfjsf] sfof{Gjogaf6 kg{ ;Sg] jftfj/0fLo k|efjsf] kl/df0f (Magnitude), k|efjsf] ;Ldf (Extent) / ;f] ljBdfg /xg] cjlw (Duration) sf] cfwf/df lgDg tflnsfdf ljleGg ljsNkx?sf] t'ngfTds ?kdf :t/Ls/0f ul/Psf] 5 .

*tflnsf g+= @!M ljsNkx?sf] cg's"n k|efj klxrfgsf] :tl/s/0fsf] ljj/0f*

*(Beneficiaries Impact Identification Matrix)*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| l; g+ | jftfj/0fLo k|efj | Impact Prediction | | | |
| kl/df0f (Magnitude) | k|efjsf] ;Ldf (Extent) | cjlw (Duration) | s"n :s]f/ |
| **ljsNk ! M** **k|:tfj sfo{fGjog gug]{** | | | | | |
| ef}lts | e"–Ifodf sdL | 60 | 10 | 20 | 90 |
| k|fs[lts zf}+bo{ a9\g] | 20 | 10 | 20 | 50 |
| Af]f6 lj?jfx?sf] xflg gf]S;flgdf sld x'g] | 60 | 10 | 20 | 90 |
| jg k}bfjf/sf] df}Hbftdf a[l4 | 20 | 10 | 20 | 50 |
| h}ljs | h}ljs ljljwtf / kfl/l:yltsLo k|0ffnLsf] ;+/If0f | 60 | 10 | 20 | 30 |
| j+zf0f' >]ft ;+/If0f | 60 | 10 | 10 | 80 |
| k|fs[lts cj:yfdf /x]sf jg tyf jg:klts]f ;+/If0f / a[l4 | 60 | 10 | 10 | 90 |
| ;fdflhs | :yfgLo ;d'bfox?n] lkpg] / l;+rfO{sf] nflu kfgL ;tt\?kdf k|fKtu/L, s[lif pTkfbgdf j[l4 x'g] . | 20 | 10 | 10 | 40 |
| jg k}bfj/sf] ;Íngdf aflx/L dflg;x? gcfpg] xF'bf ;dfhdf s'g} k|efj gkg]{ . | 20 | 20 | 10 | 50 |
| Wffld{s–;f:s[lts | jg k}bfj/sf] ;Íngdf aflx/L dflg;x? gcfpg] x'Fbf wd{, ;:s[lt / ;fdflhs k/Dk/fdf s'g} gs/fTds k|efj gkg]{ | 20 | 10 | 10 | 40 |
|  | s"n hDdf | 400 | 110 | 150 | 610 |
|  | cf}ift hDdf |  |  |  | 61 |
| **ljsNk @M k/Dk/fut ljlwåf/f k|:tfj sfof{Gjog ug]{** | | | | | |
| ef}lts | :jtGq ?kdf h'g;'s} ;do cToflws kl/df0f ;Íng x'g] / ;Íng ug{ ;lsg] | 60 | 20 | 10 | 90 |
| s] slt ;Íng ug]{ eGg] dfkb08 gx'g] xF'bf dfu eP hlt ;Íng ug{ ;lsg] | 20 | 10 | 10 | 50 |
| sd nfutdf jg k}bfj/ ;Íng x'g] | 20 | 10 | 10 | 40 |
| :yfgLo pBf]unfO{ lgoldt t/ cNksflng ?kdf sRrf kbfy{ k|fKt x'g] | 30 | 10 | 10 | 50 |
| h}ljs | h}ljs ljljwtf / kfl/l:yltsLo k|0ffnLsf] ;+/If0f, j+zf0f' >]ft ;+/If0f tkm{ Wofg lbg gkg]{ x'+bf sfo{ ;+rfngdf ;xhtf | 60 | 20 | 20 | 100 |
| ;fdflhs | s'g} ;Lk / k|ljlwsf] ;fy} bIf hgzlQm cfjZos gkg]{ | 60 | 20 | 10 | 90 |
| jg k}bfj/sf] ;Íngdf aflx/L dflg;x? klg cfpg] xF'bf efO{rf/fsf] ljsf; x'g] . | 20 | 20 | 10 | 50 |
| ;Íngsf] j}1flgs k|s[ofsf af/]df hfgsf/L cfjZos gkg]{ . | 40 | 20 | 10 | 70 |
| Wffld{s–;f:s[lts | jg k}bfj/sf] ;+sngdf aflx/L dflg;x? klg cfpg] xF'bf efO{rf/f tyf wd{ / ;:s[ltsf] b]vfl;sL tyf cfbfg k|bfg x'g] . | 20 | 20 | 10 | 50 |
|  | s'n df}Hbft | 330 | 150 | 100 | 590 |
|  | cf}ift hDdf |  |  |  | 65.55 |
| **ljsNk #–j}1flgs jg Aoj:yfkg k|0ffnL cg';f/ k|:tfj sfo{fGjog ug]{** | | | | | |
| ef}lts | jg k}bfjf/df cfwfl/t :yfgLo pBf]unfO{ sRrf kbfy{ :yfoL / bLuf] ?kdf k|fKt x'g] . | 20 | 20 | 10 | 50 |
| dfu / cfk"lt{sf] l:ylt ljZn]if0f u/L ;+lrtL ;d]t ug{ ;lsg] | 20 | 20 | 10 | 50 |
| ;l8unL hfg] jg k}bfjf/sf] ;b'kof]u x'g] | 10 | 20 | 10 | 40 |
| jftfj/0fLo k|lts"n k|efj 36g uO{ ;sf/fTds k|efj a9g hfg] | 60 | 20 | 10 | 90 |
| hg;xeflutfdf a[l4 eO{{ :yfgLo hg;d'bfoaf6 jg ;+/If0f, ;Dj4{g sfo{df ;sf/fTds k|efj kg]{ | 60 | 20 | 20 | 100 |
| h}ljs | jg k}bfjf/sf] bLuf] Joj:yfkg x'g] / nf]kf]Gd'v k|hfltsf] ;+/If0f / ljsf;sf ;fy} :yfgLo txdf k|ljlw x:tfGt/0f x'g] | 20 | 20 | 20 | 60 |
| h}ljs ljljwtf / kfl/l:yltsLo k|0ffnLsf] ;+/If0f x'g] | 20 | 20 | 20 | 60 |
| jg k}bfjf/sf] aLpm pTkfbg tyf j+zf0f' >f]t ;+/If0fdf d2t ldNg] | 20 | 20 | 20 | 60 |
| cGo ljleGg pkof]uL k|hftLs]f klxrfg x'g] | 20 | 20 | 10 | 50 |
| ;fdflhs | :yfgLo:t/df yk /f]huf/Lsf cj;/ l;h{gf eO{ cfly{s tyf ;fdflhs ljsf;df yk 6]jf k'Ug] | 60 | 10 | 10 | 80 |
| bLuf] ?kdf /fhZj k|fKt eO{ /fli6«o cfodf j[l4 x'g] . | 60 | 60 | 10 | 130 |
| cg';Gwfg tyf cWoogdf d2t ldNg] | 20 | 20 | 10 | 50 |
| **Wffld{s–;fF:s[lts** | jg k}bfj/sf] ;Íngdf aflx/L dflg;x? klg cfpg] xF'bf efO{rf/f tyf wd{ / ;:s[ltsf] b]vfl;sLaf6 ;s/fTds s'/fx?sf] cfbfg k|bfg x'g] . | 20 | 10 | 10 | 40 |
|  | s"n hDdf | 410 | 280 | 170 | 860 |
|  | cf}ift hDdf |  |  |  | 66.15 |

pk/f]Qm k|efjx?sf] ljZn]if0f ubf{ k|:tfj g+ ! gug]{ / k|:tfj g+ @ / # df k|:tfj g+ #, j}1flgs jg Aoj:yfkg k|0ffnL cg';f/ k|:tfj sfof{Gjog ug]{ ljsNksf] :sf]/ ;j}eGbf a9L ePsf]n] sfo{fGjogsf nflu ljsNk g+= # sf] l;kmfl/; ul/Psf] 5 .

# **$=% ljsNkx?sf] k|lts"n jftfj/0fLo k|efjx?sf] t'ngfTds ljZn]if0f**

k|:tfjsf k|:t't ljsNkx? sfof{Gojg ul/Pdf To;af6 kg{ ;Sg] k|lts"n k|efjx?sf] t'ngfTds ljj/0f lgDg tflnsfdf k|:t't ul/Psf] 5 .

*tflnsf g+= @@M k|lts"n k|efj klxrfg :t/Ls/0fsf] ljj/0f*

*(Adverse Impact Identification Matrix)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| l; g+ | jftfj/0fLo k|efj | Impact Prediction | | | | |
| kl/df0f (Magnitude) | | k|efjsf] ;Ldf (Extent) | cjlw (Duration | s"n :s]f/ |
| **ljsNk ! M k|:tfj sfo{fGjog gug]{** | | | | | | |
| ef}lts | :yfgLo :t/df /f]huf/L / cfly{s pkfh{gdf sdL cfpg] | 60 | | 10 | 20 | 90 |
| jg k}bfj/sf] dfu / cfk'lt{df ;Gt'ng gx'g] | 20 | | 60 | 20 | 100 |
| h}ljs | pTkflbt hl8a'l6x? s'x]/ jftfj/0f k|b'if0f x'g] . | 20 | | 10 | 20 | 50 |
| jg k}bfjf/sf] ;Íng gx'+bf ;b'kof]u geO{ s'lxP/ v]/ hfg] . | 60 | | 10 | 20 | 90 |
| ;fdflhs | jgIf]qsf] sfo{df ;+nUg :yfgLo hgzlQm lj:yflkt x'g,] ;fdfhLs /xg;xg vnalng ;Sg] | 60 | | 20 | 10 | 90 |
| jgIf]qaf6 k|fKtx'g] /f]huf/Lsf cj;/x? u'Dg] | 60 | | 60 | 10 | 130 |
| :yfgLo ljsf; lgdf{0f sfo{df cfj:os sRrf kbfy{ gkfpbf k|lts"n c;/ kg]{ | 60 | | 20 | 10 | 90 |
| sRrf kbfy{sf] cfk"lt{ gx'+bf pBf]u k|efljt x'g] / ljb]zL pTkfbgdf e/ kg'{ kg{] . | 60 | | 60 | 20 | 140 |
| /fhZj gp7\bf cy{tGqdf k|lts"n c;/ kg]{, /f]huf/sf] cefjdf hgzlQm knfog x'g ;Sg] | 60 | | 60 | 20 | 140 |
| Wffld{s– ;fF:s[lts | k/Dk/fut ?kdf rlncfPsf] cf}ifwLdf k|of]u x'g] hl8a'6L, 3/5fpg] v/, cflb k|fKt gx'g] | 20 | | 10 | 10 | 40 |
| :yfgLo hg;d'bfoaf6 jg ;+/If0f sfo{df ;xeflutfsf] sdL cfpg] . | 20 | | 10 | 10 | 40 |
|  | s"n hDdf | 500 | | 330 | 170 | 1000 |
|  | cf}ift hDdf |  | |  |  | 76.92 |
| **ljsNk @ M k/Dk/fut ljlwåf/f k|:tfj sfof{Gjog ug]{** | | | | | | |
| Eff}lts | jftfj/0fLo x|f;sf k|efjx? b]lvg] | 60 | | 20 | 20 | 100 |
| jg k}bfjf/sf] ;xL tl/sfn] ;b'kof]u gx'g] | 20 | | 20 | 20 | 60 |
| jg>f]]tsf] cToflws bf]xg x'g] | 60 | | 20 | 10 | 90 |
| gbL tyf vf]nfx?df 9+'‹f, lu6L / afn'jf lemSbf ulx/fO{ a9\g u} lsgf/x?df klx/f] hfg ;Sg] . | 60 | | 20 | 10 | 90 |
| ef}lts ;+/rgf h:t}M k'n sNe6{sf] glhs 9+'‹f, lu§L / afn'jf lemSbf lt ;+/rgfx? eTsg ;Sg] | 60 | | 20 | 10 | 90 |
| sf7 bfp/fsf] ;Íngdf dfgljo Iflt ;d]t x'g ;Sg] | 20 | | 10 | 10 | 40 |
| h}ljs | dxTjk"0f{ ax'pkof]uL k|hfltx? nf]k x'g uO{ h}ljs ljljwtfdf x|f; cfpg]. | 60 | | 20 | 10 | 90 |
| cToflws k|of]usf sf/0f :yfgLo jg:klt / jGohGt'df kl/jt{g cfpg]. | 60 | | 20 | 20 | 100 |
| ;dflhs | lg/Gt/?kdf /f]huf/L pknAw gx'g] x'Fbf ;Lkd'ns hgzlQm lj:yflkt x'g] . | 20 | | 20 | 10 | 50 |
| aflx/L dflg;x?sf] cfudgaf6 ;fdflhs jftfj/0f k|b'lift x'g ;Sg] . | 20 | | 20 | 10 | 50 |
| ;dflhs ;+/rgfdf lau|g ;Sg] | 20 | | 20 | 10 | 50 |
| :yfgLo :t/df /f]huf/L / cGo cfo cfh{gsf cj;/x? 36b} hfg] | 20 | | 20 | 10 | 50 |
| Wffld{s– ;fF:s[lts | ;fdflhs /xg;xg, e]ife'iffdf kl/jt{g cfpg] . | 20 | | 20 | 10 | 50 |
| aflx/af6 v/fa dflg;x?sf] cfudg ePdf wd,{ ;:s[lt / k/Dk/fdf vnn k'Ug ;Sg] | 20 | | 20 | 10 | 50 |
|  | s"n hDdf | 520 | | 270 | 170 | 960 |
|  | cf}ift hDdf |  | |  |  | 68.57 |
| **ljsNk #–j}1flgs jg Aoj:yfkg k|0ffnL cg';f/ k|:tfj sfo{fGjog ug]{** | | | | | | |
| ef}lts | dfgljo ultljlwsf sf/0f jgdf st}st} e"Ifo x'g ;S5 | | 10 | 10 | 5 | 45 |
| cfunfuL x'g ;Sg] . | | 10 | 10 | 5 | 45 |
| Dfflg;x? cfjt hfjt ubf{ uf]/]6f af6f tyf uf8Lx? hfg] af6fx?df Soil Compact e} lj?jfsf] pTkfbgdf cj/f]w cfpg ;Sg] . | | 10 | 10 | 5 | 45 |
| gbL tyf vf]nfx?df 9+'‹f, lu6L / afn'jf lemSbf ulx/fO{ a9\g u} lsgf/x?df klx/f] hfg ;Sg] . | | 10 | 10 | 5 | 45 |
| ef}lts ;+/rgf h:t}M k'n sNe6{sf] glhs 9+'‹f, lu6L / afn'jf lemSbf lt ;+/rgfx? eTsg ;Sg] | | 20 | 10 | 5 | 35 |
| sf7 bfp/fsf] ;sngdf dfgljo Iflt ;d]t x'g ;Sg] . | | 20 | 10 | 5 | 35 |
| h}ljs | jGohGt"x? cf]xf]/ bf]xf]/ ug]{ af6f] / af;:yfgdf k|efj kg{ ;Sg] . | | 20 | 20 | 10 | 50 |
| jg k}bfj/ ;+sng ubf{÷sf6\bf, cf];fbf{ ;–;fgf jf]6 lj?jf tyf lhjhGt'x? dg]{ / xfgL gf]S;fgL x'g ;Sg] . | | 20 | 20 | 10 | 50 |
| gbL tyf vf]nfx?df hn k|b'if0f e} hnr/ k|fl0fx?nfO{ c;/ ug{ ;Sg] . | | 10 | 10 | 10 | 30 |
| ;fdflhs | ;dosf] kfngf / lglZrt lgod sfg"gsf] kfngf ug'{ kg]{ | | 10 | 10 | 5 | 25 |
| jg If]qdf kmf]xf]/ d}nf a9\g ;Sg] | | 10 | 10 | 5 | 25 |
| k|:tfj sfo{fGjog ubf{ bIf hgzlQmsf] cfjZostf kg]{ | | 20 | 20 | 10 | 50 |
| a9L vlr{nf] x'g] | | 20 | 20 | 10 | 50 |
| /f]huf/Laf6 cfDbfdL a9\g u} k};fsf] b'?kof]u u/L hfF8/S;L h:tf s'ntaf6 ;dflhs jftfj/0f vnalng ;Sg] . | | 20 | 20 | 10 | 50 |
| Wffld{s– ;fF:s[lts | ;fdflhs /xg;xg, e]ife'iffdf k/Ljt{g cfpg ;Sg] . | | 10 | 10 | 5 | 25 |
| aflx/af6 v/fj dflg;x? cfPdf ;fdflhs k/Dk/f, wd{ / ;:s[ltdf vnn k'Ug ;Sg] . | | 10 | 10 | 5 | 25 |
|  | s"n hDdf | | 230 | 210 | 110 | 630 |
|  | cf};t hDdf | |  |  |  | 39.37 |

pk/f]Qm tflnsf cWoog ubf{ k|:tfj g+= ! gug]{, k|:tfj g+= @ / # dWo] k|:tfj g+= # df k|:tfj sfo{fGjog ubf{ kg{] gsf/fTds k|efjx?sf] cf}ift :sf]/ ;a}eGbf sd ePsf] x'+bf ;f] k|:tfj sfo{fGjogsf nflu l;kmfl/z ul/Psf] 5 .

jftfj/0fLo k|efjsf lx;fjn] k|:tfjsf] ljsNk g+ # df ;sf/fTds k|efjx?sf] ef/ a9L / gsf/fTds k|efjx?sf] ef/ sd /x]sf] x'bf ;f]xL ljsNk sfof{Gjog x'g' kg]{ b]lvG5 .

gf]6 M /fli6«o jftfj/0fLo k|efj d"NofÍg lgb]{lzsf, @)%) df jftfj/0fLo k|efj d"NofÍg ug{sf] nflu kl/df0f, ;Ldf / cjlwnfO{ lgDgfg';f/ ;+VofTds dfk lbOPsf] 5 . o; cg';f/ k|efjsf] clwstd !$) / Go'gtd @% c+s x'G5 .

*tflnsf g+= @#M k|efj d"NofÍgsf] :sf]/ ljj/0f*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| kl/df0f | | | ;Ldf | | | cjlw | | |
| 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 |
| pRr | dWod | sd | /fli6«o | If]qLo | :yflgo | bL3{sflng | dWod | cNksflng |
| 60 | 20 | 10 | 60 | 20 | 10 | 20 | 10 | 5 |

**efu %**

**jftfj/0fLo k|efjsf] klxrfg tyf ;+/If0fsf pkfox?**

**(Impact Identification and Mitigation Measures)**

**%=!= jftfj/0fLo k|efjsf] klxrfg / Go"lgs/0fsf pkfox?**

kfFr jlif{o sfo{of]hgf sfof{Gjog ubf{ jg If]qdf s] s:tf] cg's'n tyf k|lts'n k|efj kg{ ;S5g\ / tL k|lts'n k|efj Go"lgs/0fsf pkfox? s] s] x'g ;S5g\ elg n]vfhf]vf ul/Psf] 5 . tL k|lts'n k|efjnfO{ k|ToIf jf ck|ToIf / kl/df0f, l;df / cjlwsf] cfwf/df ;+VofTds ?kdf ljZn]if0f ul/Psf] 5 . gs/fTds k|efjnfO{ Go"lgs/0f u/L k|:tfj sfof{Gjog ug{nfO{ s] s:tf sfo{x? canDag ug{ ;lsG5, lhDd]jf/ lgsfo sf] x'g] / cg'dflgt ah]6 tyf cg'udg k4ltsf] af/]df ljZn]if0f ul/Psf] 5 .

**%=@= k|:tfj sfof{Gjoaf6 kg]{ cg's'n k|efjx?**

**%=@=!= ef}lts k|efjx?**

**s\_ hldg jf e'Ifodf kg]{ k|efj**

jg ;+/If0f, ;Da4{g / ;b'kof]u sfo{af6 jg k}bfjf/sf] ;d'lrt k|of]u x'g'sf ;fy} vfnL :yfgx?df j[Iff/f]k0f, rl/r/0f lgoGq0f, cfufnflu lgoGq0f tyf Mass Wasting sd x'g] / Ground Cover / Crown Cover df j[l4 eO{ hldg jf e" ;+/If0f sfo{df 6]jf k'Ug] b]lvG5 .

**v\_ kfgL jf hnfwf/ If]qdf kg]{ k|efj**

jg k}bfjf/sf] pkof]u dfq geO{ s]lx ;+j]bglzn If]qx? h:t} kfgLd'xfg, vf]N;f, cltle/fnf], gbLsf] lsgf/, tfntn}of tyf h}ljs ljljwtfn] dxTj dflgPsf] If]qnfO{ ;+/lIft If]qsf] ?kdf sfo{of]hgfdf Joj:yf ul/g] 5 / tL If]qx?af6 hn;+/If0f x'g] 5 .

**%=@=@= h}ljs k|efjx?**

**s\_ hg;+Vofdf kg]{ k|efj**

k|:tfj sfof{Gjog ubf{ :yflgo dflg;x?n] /f]huf/L kfpg] / sfof{Gjog If]qdf ;a}h;f] :yflgo sfdbf/ kfOg] x'Fbf cfDbfgLsf] >f]t a9]/ cfpF5 . k|:tfjdf jg Joj:yfkg u/L :yflgo pkef]Qmfsf] ;fdflhs, cfly{s pGgtL u/L jg If]qaf6 hlt;Sbf] a9L /f]huf/Lsf] cj;/ ;[hgf ug]{ ePsf]n] of] k|:tfj sfof{Gjogaf6 :yflgo hgtfdf ;s/fTds k|efj kg]{ b]lvG5 .

**v\_ jg h+un tyf s[lif{hGo jg:klt, jGohGt' tyf 3/kfn'jf hGt'df kg]{ k|efj**

**!= k'g?Tkfbgdf j[l4 tyf jgsf] x}l;otdf ;'wf/**

cgfjZos ?kdf emfl8sf] ?kdf /x]sf jg If]qdf j}1flgs jg Joj:yfkg u/L Shrub Land Improvement Silvicultural Operation nfu' u/L jgsf] k'g?Tkfbgdf j[l4 ug]{ / eljiodf Timber Stand ImProvement Technique nfu' u/L jgsf] Productivity a9fpg' g} k|:tfj sfof{Gjogsf] d'Vo p2]Zo ePsfn] tL sfo{x?af6 jgsf] x}l;otdf ;'wf/ Nof{ k'g?Tkfbg tyf sf7 hGo jg k}bfjf/df j[l4 x'g] b]lvG5 .

**@= 89]nf] lgoGq0f**

:yflgo pkef]Qmfx?af6 jg Joj:yfkg ul/g] / pgLx?s} cfocfh{gdf j[l4 ul/g] sfo{qmdx?n] jgsf] x}l;otdf j[l4 x'g'sf] ;fy} :yflgo hgtfdf d]/f] xf] / d}n] ug'{ kb{5 eGg] efjgfsf] ljsf; x'g] x'Fbf of] k|:tfj sfof{Gjog x'Fbf jg If]qdf nfUg] 89]nf] lgoGq0f x'g] / jgsf] k'g?Tkfbg tyf x}l;otdf ;'wf/ cfpg] 5 .

**#= j}1flgs tyf lbuf] jg Joj:yfkg**

k|f/lDes jftfj/0fLo kl/If0f k|ltjbgsf] l:js[lt nut} kfFr jlif{o jg Joj:yfkg sfo{ of]hgf nfu' ul/g] ePsf]n] o;sf] ;s/fTds kIf eg]sf] jgsf] j}1flgs Joj:yfkg xf] . ;fdflhs, cfly{s / jftfj/0fLo ?kdf ;s/fTds k|efj kg]{ x'gfn] / j}1flgs k|ljlwx? sfof{Gjodf NofOg] ePsfn] jgsf] lbuf] Joj:yfkg x'g] 5 / xfn jgaf6 kfO/x]sf] ;'ljwf eljiosf ;GttLn] TolQs} dfqfdf kfpg] 5g\ .

**$= jg ;DalGw ck/fw 36\g]**

k|:tfj sfof{Gjog ubf{ jg sd{rf/Lx?sf] lgoldt ?kdf lkmN8 cjnf]sg eO /xg] / ;a}vfn] jg Joj:yfkg tyf ;+/If0f sfo{df :yflgo pkef]Qmfsf] ;+nUgtf x'g] x'Fbf jg ;DalGw ck/fw 36\g uO{ jgsf] ;+/If0fdf 6]jf k'Ug] 5 .

**u= k|fs[lts jf;:yfg / ;d'bfodf kg]{ k|efj**

**!= k|fs[lts jf;:yfgsf] ;+/If0f x'g]**

lgoldt ?kdf jg sd{rf/Lx?s]f lkmN8 cjnf]sg tyf :yflgo ;d'bfosf] k|ToIf ;xeflutfaf6 of] k|:tfj sfof{Gjog x'g] x'Fbf jGohGt' tyf ;fF:s[lts ?kn] dxTk"0f{ dflgPsf k|fs[lts af;:yfg tyf ;Dkbfx?sf] ;+/If0f x'g] 5 .

**@= k|ljlw x:tfGt/0f x'g]**

sfi7 Pj+ u}/sfi7 jg k}bfj/ ;+sng tyf Joj:yfkg sfo{df :yflgo pkef]QmfnfO{ k|of]u ul/g] ePsfn] ;f] sfo{x?df jg k|fljlwsdf ePsf] 1fg, l;k / IfdtfnfO{ lj:tf/} ?kdf :yflgo pkef]Qmf :t/ ;Dd x:tfGt/0f ub}{ nlug] 5 / tL pkef]Qmfx?nfO{ k|fljlws ?kdf cfTdlge{/s tkm{ pGd'v ul/g] 5 .

**%=@=#= ;fdflhs, cfly{s / ;fF:s[lts If]qdf kg]{ k|efjx?**

k|:tfj sfof{Gjog ePkl5 :yflgo ;d'bflonfO{ k|ToIf /f]huf/Lsf] cj;/x? k|fKt eO{ cfo cfh{gdf j[l4 x'g]5 . o;af6 :yflgo :t/df ahf/sf] ljsf; x'g u} pBf]u, Jofkf/, s[lif{ cflb If]qdf k|ToIf of]ubfg k'Ug] / cfly{s s[ofsnfk a9\g u} cfly{s ultlztnf a9\g hfG5 . :yflgo hgtfx?nfO{ cfocfh{gsf cj;/x? k|fKt x'g] x'gfn] lhjg :t/ psf:g d2t u/L cGTodf ul/aL Go"lgs/0fdf ;d]t dxTjk"0f{ of]ubfg k'Ug]5 .

**s\_ dfgj hLjgdf kg]{ k|efj**

of] k|:tfj sfof{Gjog ePkl5 hg;xeflutdf j[l4 x'g] / dfjg lhjgdf ;xsfo{ tyf ;xof]uLsf] efjgfsf] ljsf; x'g] 5 . o;} u/L ljljw Silvicultural sfo{df ;xeflutf x'g] x'Fbf k|ljlwsf] ljsf; x'g] tyf ;[hglznsfo{df pGd'v x'g] 5g\ . jg k}bfjf/sf] lbuf] Joj:yfkg sfo{ ubf{ /f]huf/Lsf] cj;/ k|fKt x'g] tyf ul/a ljkGg ju{sf nflu cfod'ns sfo{x? ug{ ;lsg] x'Fbf j}1flgs jg Joj:yfkg k|s[ofn] k|ToIf ?kdf ul/aL Go"lgs/0fdf ;xof]u u/]sf] x'g] 5 .

**v\_ ;fdflhs, cfly{s / wfld{s d'No dfGotfdf x'g] kl/jt{g**

;dfhsf] cfly{s pGgtLaf6 ;dfhdf lhljsf]kfh{g tyf Living Standard df ;s/fTds kl/jt{g x'g] 5 / k|:tfjsf] sfof{Gjog x'Fbf /f]huf/Lsf] ;[hgf x'g] / ul/aL Go"lgs/0f ;d]t x'g] x'gfn] lzIff, :jf:Yo, wfld{s sfo{df ;d]t 6]jf k'Ug] 5 / xfn eO{ /x]sf ;fdflhs tyf ;f:s[lts d'No dfGotfdf ;s/fTds kl/jt{g x'g] 5 / ;dfhn] dflg cfPsf l/tLl/jfh tyf rf8kj{df s'g} k|sf/sf] gs/fTds kl/jt{g x'g] 5}g .

**u\_ pBf]u wGbfx?nfO{ sRrf kbfy{sf] cfk'tL{ / /fHZjdf j[l4**

o; k|:tfj sfof{Gjog kZrft o; lhNnfdf /x]sf ljljw hl8a'l6 Pj+ u}/sfi7 jg k}bfjf/x?sf] lhNnf aflx/ lgsf;L x'g] tL k}bfjf/n] b]zsf ljleGg :yfgdf /x]sf cf}iflw tyf ;'ulGwt j:t' pTkfbg ug]{ pBf]ux?nfO{ sRrf kbfy{ pknAw u/fPsf] x'g]5g\ . o;/L lgsf;L k|s[ofaf6 b]zsf] tyf :yflgo ?kdf /fhZjsf] j[l4 eO{ /fli6«o cy{tGqdf 6]jf k'Ug] 5 .

**%=#= cg's'n k|efjnfO{ clwstd ug]{ pkfox?**

k|:tfj sfof{Gjog If]qdf /f]huf/Lsf] cj;/ ;[hgf u/L :yflgo ?kdf cfocfh{gsf] j[l4 u/L ul/aL Go"lgs/0fdf 6]jf k'¥ofpg' xf] . :yflgo dlxnf, ul/a, ljkGg ju{ tyf lk5l8Psf tyf k5fl8 kfl/Psf ju{nfO{ k|fljlws 1fg l;k x:tfGt/0f u/L jg k}bfjf/ ;+sng tyf k|;f]wgdf cufl8 ;f/]/ jftfj/0fLo ?kdf cg's'n k|efjx?nfO{ clwstd ug{ lgDg pkfox? cjnDag ul/g] 5 .

* jg k}bfjf/ ;+sngsf nflu nlIft ;d"x?nfO{ lkmN8df g} tflndsf] Joj:yf ldnfOg] 5 .
* ;+sng tyf 9'jfgL sfo{df ;+nUg JolQmx?nfO{ jgsf] ;+/If0f tyf dxTj af/]df hfgsf/L u/fO{g] 5 .
* k|:tfjdf tf]lsPsf] dfqfdf ;+sng ul/g] 5 .
* tf]lsPsf] :yfg / ;dodf tyf tf]lsPsf] sfo{ljlwn]] sfd ug]{ .
* Psn k|hftLsf] dfq v]lt gug]{ .

cg's'n k|efjx?nfO{ clwstd ug{sf nflu sfof{Gjog x'g] :yfgx?df ?= $))))).– sf] k|:tfljt ah]6 / cg'dflgt sfo{qmdx? tn k|:t't ul/Psf] 5 .

**tflns g+= @$ cg's'n k|efj a9fpg] pkfox?sf nflu cg'dflgt ah]6 /sd**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **l;=g+=** | **cg's'n k|efj a9fpg] pkfox?** | **sfof{Gjog x'g] :yfg** | **;do** | **cg'dflgt /sd** | **sfof{Gjogsf] lhDd]jf/L** |
| ! | ;/f]sf/jfnf / sfdbf/sf] bIftf j[l4 tflnd | ;DalGwt :yfg | ;+sng k"j{ | !))))).– | lh=j=sf=÷Ohfht k|fKt ;+sns |
| @ | ;/f]sf/jfnf / sfdbf/nfO{ Joj:yfkg tflnd | ;DalGwt :yfg | ;+sng k"j{ | !))))).– | lh=j=sf=÷Ohfht k|fKt ;+sns |
| $ | sfdbf/ tyf :yflgo JolQmnfO{ jg, jg k}bfjf/, jg 89]nf] tyf jftfj/0fsf] af/]df hgr]tgf tflnd tyf ljleGg ;+rf/ dfWodaf6 k|rf/ k|;f/ | ;DalGwt :yfg | lgoldt | !%)))).– | lh=j=sf=÷Ohfht k|fKt ;+sns |
| % | ;xeflutf d'ns k4ltsf] ljsf; | ;DalGwt :yfg | ;+sng k"j{ | %)))).– | lh=j=sf=÷Ohfht k|fKt ;+sns |
|  | ***hDdf*** |  |  | $))))).– |  |

pQm ah]6sf] Joj:yf lhNnf jg sfof{nosf] lgoldt sfo{qmd dfkm{t jf ;+sng stf{n] jf b'j}sf] ;fem]bf/L ?kdf jf cGo s'g} bft[ lgsfoaf6 ;xof]u ePdf sfof{Gjog ul/g] 5 .

**%=$= k|:tfj sfof{Gjogaf6 kg]{ k|lts'n k|efjx?**

;fdfGo ?kdf o; k|:tfj sfof{Gjog ubf{ jg, jftfj/0fdf Go"gtd k|lts'n k|efj kg]{ / ;fdflhs, cfly{s tyf ;f+:s[lts If]qdf gs/fTds k|efj gx'g] x'Fbf o; k|:tfjnfO{ sfof{Gjosf nflu l;kmfl/; ul/Psf] 5 . ;fdflhs, cfly{s tyf ;f+:s[lts ?kdf gs/fTds k|efj kg{ uPdf t'?Gt} ;/f]sf/jfnf tyf :yflgo ;d'bfo ;Fu ;dGjo u/]/ cg's'n k|efjsf] a9fjf kg]{ vfnsf sfo{qmdx? ul/g] 5 .

**%=$=!= ef}lts k|efjx?**

e" agf]6, df6f]sf] agf]6, e"Ifo tyf hldgdf kg{ ;Sg] k|lts'n k|efjnfO{ o;df ;d]6LPsf] 5 . jg k}jfbf/ ;+sng tyf ljqmLljt/0f k|of]hgsf] nflu af6f] lgdf0f{ ubf{ e' Ifo x'g] tyf klx/f] hfg] ;Defjgf x'G5 eg] ;+sng tyf ljlqmljt/0f ug]{ qmddf sne6{ nufotsf ef}lts ;+/rgf eTsg ;Sg] ;Defjgf x'G5 . oL k|lts'n k|efj /f]syfd tyf Go"lgs/0f ug{ tkl;n adf]lhdsf pkfox? cjnDag ul/g] 5 .

* tf]lsPsf] dfqfdf sfdbf/ nufpg] / ltlgx?nfO{ tflndsf] Joj:yf ldnfpg] .
* bIf hgzlQm tof/ ul/ plgx?af6 g} ;+sng sfo{ ug]{ u/fpg] .
* ulN5 lgdf{0f ePdf t'?Gt /f]syfdsf nflu r]s8\ofd, afof]OlGhlgol/ª tl/sf cjnDa ug]{ .
* dfgj lgld{t ;+j]bglzn :yfgx?df jg k}bfjf/ ;+sng sfo{ gug]{ .

**%=$=@= h}ljs k|efjx?**

o; cGt/ut ?v, lj?jf, ls6ktË, hnr/ tyf ;Dk"0f{ hLjx?sf] ;dfof]hgnfO{ a'emfpF5 . k|:tfj sfof{Gjog ubf{ ;fgf ;fgf hLjx?sf] jf;f:yfgdf c;/ k'Ug], ;+snLt k}bfjf/df e/ kg]{ hLjx? gfl;g ;Sg], ljBfdfg Ecosystem df c;/ k'Ug], 7"nf hLjx?sf] vfB kf}li6s cfxf/df sdL x'g], ;+sngstf{4f/f cfuf]nflu u/fpg] / jg jg:ktLdf xfgL k'Ug] ;Defjgf a9Lx'g] h:tf h}ljs ?kdf k|efjx? kg{ ;S5g\ tL k|lts'n k|efjx?nfO{ Go"lgs/0f u/L cg's'n k|efj a9fpg tkl;n adf]lhdsf sfo{qmx? cufl8 ;fl/g] 5 .

* ;+sngstf{x?nfO{ ;+sng ;DalGw tflnd tyf ;t{stfsf] af/]df hfgsf/L lbg] .
* lbuf] jg Joj:yfkgsf] cjwf/0ffnfO{ :yflgo:t/ ;Dd k|;f/k|rf/ ul/g] 5 .
* ;+snLt jg k}bfjf/sf] k'g?Tkfbgsf] ;'lglZrtf ul/g] 5 .
* b'n{e tyf ;+s6kGgf jGohGt'sf] cfxf/ ePdf tL jg k}bfjf/ ;+sng sfo{df :yflgo :t/df g} /f]s nufO{g] 5 .
* k|fs[lts k'g?TkfbgnfO{ k|fyldstf lbb} j[Iff/f]k0f sfo{nfO{ klg cufl8 ;fl/g] 5 .

**%=$=#= ;fdflhs, cfly{s / ;f+:s[lts If]qdf kg]{ k|efjx?**

o; k|:tfj sfof{Gjog ubf{ dfgljo >f]tsf] a9L k|of]u x'g] x'Fbf dfgj zl//df rf]6k6s nfUg ;Sg], s[lif{ tyf kz'kfng sfo{df ;f]Q/ tyf 3fF;sf] sld x'g ;Sg], s[lif{ sfo{sf] ;dodf jg k}bfjf/ ;+sng ug{ hfFbf s[lif{sf nflu dhb'/sf] sld x'g], :yflgo d7dlGb/df k|of]u x'g] w'k tyf cGo km'nsf] sld x'g ;Sg], wfld{s sfo{sf] nflu km'n tyf cGo h}ljs j:t'x?sf] sld x'g ;Sg], aflx/L ;+sng stf{ k|of]u ul/Pdf :yflgo ;fF:s[lts, wfld{s d'NodfGotfdf c;/ kg{ ;Sg] h:tf k|lts'n k|efjx? kg{ ;S5g\ tL k|lts'n k|efjx?nfO{ Go"lgs/0f ug{ lgDg adf]lhdsf sfo{x?nfO{ cjnDa ul/g] 5 .

* sfdbf/x?nfO{ dfgljo ;DefJo rf]6k6s ;DalGw k"0f{ 1fg lbg] .
* w]/} le/fnf] If]qdf jg k}bfjf/ ;+sng sfo{ gug]{ .
* k|fylds pkrf/sfo{sf] Joj:yf ldnfpg] .
* jg k}bfjf/x?sf] kl/kSjtf ePkl5 dfq ;+sng ug]{ .
* wfld{s Pj+ ;f+:s[lts d'NodfGotfdf k|of]u x'g] jg k}bfjf/x?s]f ;+sng sfo{sf nflu wfld{s ;d'bfo ;Fu ;dGjo u/L ;+sng sfo{ ug]{ .

**%=%= k|:tfj sfof{Gjogaf6 kg]{ k|lts'n k|efjx?sf] Go"lgs/0fsf pkfox?**

of] k|:tfj sfof{Gjogsf] ;a}eGbf dxTjk"0f{ kIf vf;u/L gs/fTds kIfx? x6fpg' jf Go"g ug'{ / To;nfO{ ;s/fTds kIfdf 9fNg' g} xf] . jg k}bfjf/ ;+sng sfo{x?n] ;fdflhs, cfly{s tyf ;f+:s[lts ?kdf c;/ gkf/]sf ljutsf cg'ejx?n] klg atfPsf] 5 . :yflgo JolQmsf] /f]huf/L tyf cfocfh{gdf j[l4 x'g] t/ ef}lts tyf h}ljs j:t'x?df Go"gtd ePklg gs/fTds k|efj kg]{ ePsfn] k|lts'n k|efj Go"lgs/0f u/L cg's'n k|efjnfO{ a9fjf lbg tkl;n adf]lhdsf sfo{x? ckgfO{g] 5 .

**tflnsf g+= @% k|:tfj sfof{Gjogaf6 kg]{ k|lts'n k|efjx?sf] Go"lgs/0fsf pkfox?**

| **l;= g+=** | **k|:tfljt sfo{x?** | **jftfj/0fLo k|efjx?** | **k|efj** | | | | | | | **;+/If0fsf pkfox?** | **lhDd]jf/ lgsfo** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **k|ToIf** | **ck|ToIf** | **cg's'n** | **k|lts'n** | **kl/df0f** | **l;df** | **cjlw** |
| **!** | **ef}lts k|efj** | | | | | | | | |  |  |
|  | ;+sng tyf cfjthfjt | kq] e'Ifo, uf]/]6f] af6f] tof/ |  |  |  |  | @ | # | ! | lglZrt ;+Vofdf sfdbf/ nufO{ afof] OGhLlgol/ª sfo{ ug]{ | lh=j=sf= ;/f]sf/jfnf ;+3;+:yf / ;+sng sfo{ ug]{ u/fpg] ;+:yf |
|  | ;+sng tyf cfjthfjt | k|fªufl/s kbfy{ aUg] |  |  |  |  | # | # | # |
| **@** | **h}ljs k|efj** | | | | | | | | |  |
|  | u}/sfi7 jgk}bfjf/ ;+sng sfo{ | jgk}bfjf/sf] df}Hbft kl/df0fdf x|f; |  |  |  |  | @ | # | # | k'g?Tkfbg Joj:yfkg ug]{ / dfp ?v 5f]8\g] |
|  | jg k}bfjf/ ;+sng tyf 9'jfgL | jGohGt' / o;sf] jf;:yfgdf vnan k'Ug] |  |  |  |  | # | @ | ! | rf]/L lzsf/L /f]Sg], k|efjsf/L cg'udg ug]{ |
|  | cGo k|hftLx?sf] xfgL gf]S;fgL |  |  |  |  | @ | # | # | ?v lj?jf sf6\g jf xfgL gf]S;fgL ug{ /f]Sg] |
| **#** | **/f;folgs k|efj** | | | | | | | | |  |
|  | cfuf]afNg] | w'Fjf tyf Carbondioxides lg:sg] |  |  |  |  | # | # | # | Comtrol Burning jf Prescribe Burning ug]{ / Compost df k|of]u g]{ |
| **$** | **;fdflhs, cfly{s, jftfj/0fLo k|efj** | | | | | | | | |  |
|  | ;+sng tyf 9'jfgL | rf]6k6s nfUg ;Sg] |  |  |  |  | # | # | # | ;'/lIft cf}hf/ / ;fwgsf] k|of]u ug]{ |
|  | hgzlQm vlr{nf] |  |  |  |  | @ | # | @ | l;k / k|ljlwsf] tflnd :yflgo:t/ ;Dd k'¥ofpg] |
|  | ;fdflhs tyf ;f+:s[lts lj;+utL |  |  |  |  | # | # | # | r]tgfdf j[l4 ug]{ / g}ltstfsf] kfng ug{ nufpg] |

gf]6M /fli6«o jftfj/0fLo k|efj d'Nof+sg lgb]{lzsf @)%) df k|efjsf] kl/df0fTds d'Nof+sg ug{sf] nflu kl/df0f, l;df / cjlwnfO{ lgDgfg';f/ ;+VofTds dfk lbOPsf] 5 .

**tflnsf g+= @^ k|efj d'Nof+sg :sf]/**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **kl/df0f** | | | **l;df** | | | **cjlw** | | |
| ! | @ | # | ! | @ | # | ! | @ | # |
| pRr | dWood | sd | /fli6«o | If]qLo | :yflgo | bL3{sflng | dWood | cNksfnLg |
| ! | @ | # | ! | @ | # | ! | @ | # |

**%=^= k|lts'n k|efjx? Go"lgs/0f ug{ nfUg] cg'dflgt ah]6**

of] k|:tfjsf] sfof{Gjogaf6 kg]{ k|lts'n k|efjx?nfO{ Go"lgs/0f u/L jftfj/0f ;+/If0fsf pkfox? cjnDag ug{sf nflu % jif{df lgDg cg';f/sf] sfo{qmdx? / ;f] sfo{qmd ;+rfngsf nflu k|:tfljt ?= % nfv ah]6 cg'dfg ul/Psf] 5 .

**tflnsf g+= @& k|lts'n k|efjx? Go"lgs/0fsf sfo{qmdx? / cg'dflgt ah]6 ljj/0f**

| **l;=g+=** | **cg's'n k|efj a9fpg] pkfox?** | **sfof{Gjog x'g] :yfg** | **;do** | **cg'dflgt /sd** | **sfof{Gjogsf] lhDd]jf/L** |
| --- | --- | --- | --- | --- | --- |
| **ef}lts jftfj/0f** | |  |  |  |  |
| ! | e" ;+/If0f / uN5L lgoGq0f | cfjoZs :yfg | aflif{s ?kdf | \*)))) | lh=j=sf÷Ohfht k|fKt ;+sns |
| @ | af6f]3f6f] dd{t | cfjoZs :yfg | aflif{s ?kdf | &)))) | lh=j=sf÷Ohfht k|fKt ;+sns |
| **h}ljs jftfj/0f** | |  |  |  |  |
| # | ;+sng tflnd | cfjoZs :yfg | aflif{s ?kdf | !))))) | lh=j=sf÷Ohfht k|fKt ;+sns |
| $ | dfp ?v 5gf}6 | ;DalGwt :yfg | jflif{s ?kdf | %)))) | lh=j=sf÷Ohfht k|fKt ;+sns |
| % | af;:yfg ;+/If0f | ;DalGwt :yfg | jflif{s ?kdf | %)))) | lh=j=sf÷Ohfht k|fKt ;+sns |
| ^ | cg';Gwfg Kn6 | ;DalGwt :yfg | jflif{s ?kdf | $)))) | lh=j=sf÷Ohfht k|fKt ;+sns |
| & | hgr]tgf clej[l4 tyf k|rf/k|;f/ | ;DalGwt :yfg | jflif{s ?kdf | %)))) | lh=j=sf÷Ohfht k|fKt ;+sns |
| **;dflhs, ;f+:s[lts tyf cfly{s jftfj/0f** | |  |  |  |  |
| \* | ;+j]bglzn :yfgsf] Joj:yfkg | ;DalGwt :yfg | jflif{s ?kdf | #)))) | lh=j=sf÷Ohfht k|fKt ;+sns |
| ( | ;'/Iff / :jf:Yo | ;DalGwt :yfg | jflif{s ?kdf | #)))) | lh=j=sf÷Ohfht k|fKt ;+sns |
|  | hDdf |  |  | %))))) |  |

pk/f]Qm sfo{ afx]s kfFr jlif{o sfo{of]hgfdf j[Iff/f]k0f / jg Joj:yfkg ;DalGw sfo{qmd / of]hgf ;dfj]z u/L sfof{Gjog ul/g] 5 ;fy} ;f=j=p=;=x?sf] :t/df j[l4 Nofpg] tyf ;f=j=p=;= sfo{qmd ;d]t kRr jlif{o sfo{of]hgfdf ;dfj]z ul/g] 5 .

**%=&= jftfj/0f ;+/If0fsf pkfox?sf] sfof{Gjog**

k|lts'n k|efjx?nfO{ Go"lgs/0f u/L cg's'n k|efjx?sf] a9fjf lbgnfO{ lhNnf jg sfof{nosf] lgoldt jflif{s sfo{qmdx?, ljleGg /fli6«o tyf cGt//fli6«o ;+3;+:yfx?sf] cfly{s tyf k|fljlws ;xof]u k|fKt u/L lhNnf jg sfof{no kj{t d'Vo lhDd]jf/ lgsfosf] ?kdf /lx sfof{Gjog ul/g] 5 .

**efu ^**

**jftfj/0fLo cg'udg**

**(Environmental Monitoring)**

**^=!= jftfj/0fLo cg'udg**

jftfj/0f ;+/If0f lgodfjnL @)%$ / /fli6«o jftfj/0fLo k|efj d'Nof+sg lgb]{lzsf @)%) n]m k|:6 ?kdf k|efj cg'udg ug]{ Joj:Yff u/]sf] 5 . /fli6«o jftfj/0fLo k|efj d'Nof+sg lgb]{lzsf @)%) n] lgodkfng cg'udg (Compliance Monitoring) / k|efj cg'udg (Impact Monitoring) ul/ @ k|sf/sf cg'udg x'g ;Sg] Joj:yf u/]sf] 5 . lgodkfng cg'udgdf jt{dfg lgodsfg'g cg';f/ k|:tfj sfof{Gjog ePsf] 5 5}g, sfof{Gjog x'Fbf jg tyf jtfj/0f sfg'gsf k|s[of k'/f u/]sf] 5 5}g cfbL tYox? JofVof ul/G5 h:t} ;+sng stf{ / lhNnf jg sfof{no ljr ePsf] ;Demf}tf nfu' ePsf] 5 5}g, kl/df0f dfp?v 5gf}6 h:tf eP gePsf], k|lts'n k|efj Go"lgs/0fsf pkfo cjnDag ul/P jf gu/LPsf] cfbL af/]df ljZn]if0f ul/G5 .

k|efj cg'udgdf (Impact Monitoring) cg's'n k|efjx?nfO{ a9fjf lbg] sfo{x? sfof{Gjog kZrft s] s:tf] vfnsf] Effect and Impact kof]{ / cg's'n k|efjnfO{ a9fpg s] s:tf] sfo{qmd sfof{Gjog ug{ ;lsG5 elg cg'udg ug'{ g} Impact Monitoring xf] . o; leq e'Ifosf] cj:yf, jg k}bfjf/af6 cGo jg:kltdf k/]sf] c;/, af;:yfg / h}ljs ljljwtfdf k/]sf] k|efj cflbsf af/]df cWoog ul/g] 5 .

**^=@= cg'udgsf ;'rsx?, cg'udg ;do tflnsf, ljlw / cg'udg ug]{ lgsfo**

k|:tfj sfof{Gjog kZrft k|lts'n k|efj Go"lgs/0f ug]{ / cg's'n k|efjx?nfO{ clwstd ug{sf nflu :yfg, ;do / sfo{qmdsf] ef}lts, h}ljs, ;fdflhs, cfly{s tyf ;f+:s[lts jftfj/0fsf k|efjsf] ;"rs lgwf{/0f u/L @ dlxg], ^ dlxg] / jflif{s ?kn] jftfj/0fLo cg'udgsf] Joj:yf ul/Psf] 5 . cg'udg sfo{qmdsf] sfof{Gjog ;DalGw ljj/0f lgDg adf]lhd x'g]5 .

**tflnsf g+= @\* cg'udg sfo{qmdsf] sfof{Gjog ;DalGw ljj/0f**

| **ljj/0f** | **cg'udgsf ljifox?** | **cg'udgsf ;"rsx?** | **cg'udgsf ljlwx?** | **:yfg** | **;do** | **lhDd]jf/ lgsfo** |
| --- | --- | --- | --- | --- | --- | --- |
| **ef}lts** | e' ;+/If0f sfo{ | uN5L lgdf{0f 5]sjfb | :ynut lgl/If0f | ;+sng If]q | k|To]s ^ dlxgfdf | lh=j=sf=÷ O=j=sf= |
| k|b'if0f eP gePsf] | lhjhGt'df k/]sf] c;/ :yflgo afl;Gbf ;Fu 5nkmn | :ynut lgl/If0f | ;+sng If]q | k|To]s ^ dlxgfdf | lh=j=sf=÷ O=j=sf= |
| 9'+uf, lul6, jfn'jf ;+sng sfo{ | tf]lsPsf] kl/df0f, :yfg / ;dodf ;+sng ul/Psf] jf gul/Psf] | :ynut lg/LIf0f | ;+sng If]q | ;+sng ug]{ ;dodf | lh=j=sf=÷ O=j=sf= |
| **h}ljs** | jg If]qsf] cj:yf | df}Hbft kl/df0f, k'g?Tjfbg ljj/0f | l/;f];{ O{Ge]G6«L | ;+sng If]q | jflif{s | lh=j=sf=÷ O=j=sf= |
| :yflgo jg:kltsf] xfgL gf]S;fgL | 7'6f, sf7, bfp/f IftL ljj/0f, cfufnflu | :yfnug lgl/If0f u0fgf | ;+sng If]q | jflif{s | lh=j=sf=÷ O=j=sf= |
| rf]/L lzsf/L eP gePsf] | jGo hGt' / r/fx?sf] lgl/If0f | :yfnut lgl/If0f u0fgf | ;+sng If]q | jflif{s | lh=j=sf=÷ O=j=sf= |
| h}ljs ljljwtf tyf af;:yfg df c;/ k/] gk/]sf] | hGt', hgfjf/sf kb lrGx | :yfnut lgl/If0f u0fgf | ;+sng If]q | jflif{s | lh=j=sf=÷ O=j=sf= |
| ;+sng ;DalGw tflnd eP gePsf] | ;+sng ;DalGw tl/sf x]g]{ | :yfnut lgl/If0f u0fgf | /]=kf]= | sfd ;'? ePsf] @ dlxgf leq | lh=j=sf=÷ O=j=sf= |
| ;+sng Ohfht cg';f/ sfd eP gePsf] | kl/rokq, rnfgL k'hL{ cfbL | :yfnut lgl/If0f rnfgL k'hL{ | ;+sng If]q | sfd ;'? ePsf] @ dlxgf leq | lh=j=sf=÷ O=j=sf= |
| hgr]tgf clej[l4 sfo{ eP gePsf] | :yflgo hgtfx?df ePsf] hfgsf/L | 5nkmn | ;DalGwt :yfg | jflif{s | lh=j=sf=÷ O=j=sf= |
| l;kmfl/; ul/Psf Go"lgs/0f sfo{ eP gePsf] | sfo{qmdx?sf] ljj/0f | :yfnut lgl/If0f | ;+sng If]q | jflif{s | lh=j=sf=÷ O=j=sf= |
| tf]lsPsf] kl/df0f jf a9L ;+sng eP gePsf] | jg k}bfjf/sf] lgl/If0f | ;+snLt jg k}bfj/ hfFr / :yfnut lgl/If0f | ;+sng If]q | k|To]s dlxgfdf | lh=j=sf=÷ O=j=sf= |
|  | vf]6f] ;+sng ubf{ ?v, lj?jfnfO{ c;/ k'/fPsf], gk'/fPsf] | vf]6f] ;+sng ul/Psf ?vx?sf] lg/LIf0f | :ynut lg/LIf0f | ;+sng If]q | ;+sng u/] kl5 | lh=j=sf=÷ O=j=sf= |
| **;fdflhs, cfly{s / ;f+:s[lts** | :yflgo /f]huf/ | sfdbf/sf] gfd, 7]ufgf cfbL ljj0f | :ynut lgl/If0f / 58s] hfFr | :yflgo ufpF | jflif{s | lh=j=sf=÷ O=j=sf= |
| ;fdflhs, ;f+:s[lts / cfly{s ;e]{If0f | 3/w'/L / hg;+Vof | PRA | k|efljt If]q | jflif{s | lh=j=sf=÷ O=j=sf= |
| ;'/Iff :j:Yo | cfw'lgs cf}hf/sf] k|of]u, lj/fdL /]s8{ | :ynut lgl/If0f | ;+sng If]q | ^.^ dlxgfdf | lh=j=sf=÷ O=j=sf= |
| zt{ kfng u/] gu/]sf] | lgl/If0faf6 | :ynut lgl/If0f | ;+sng If]q | k|To]s @ dlxgfdf | lh=j=sf=÷ O=j=sf= |
| ;+j]bglzn :yfgdf ;+sngsfo{ eP gePsf] | ;+j]bglzn If]qsf] ljj/0f | :ynut lgl/If0f | ;+sng If]q | ^.^ dlxgfdf | lh=j=sf=÷ O=j=sf= |
| afnaflnsf / czStnfO{ sfddf k|of]u u/] gu/]sf] | sfdbf/sf] gfd, 7]ufgf | :ynut lgl/If0f | ;+sng If]q | sfd z'? ePsf] @ dlxgf leq | lh=j=sf=÷ O=j=sf= |
| a;fO{;/fO{ | 3/w'/L / hg;+Vof | PRA | k|efljt ufpF | jflif{s | lh=j=sf=÷ O=j=sf= |

**^=#= jftfj/0fLo cg'udgsf] nflu ah]6sf] Joj:yf**

o; cf=j= sf] nflu l:js[t jflif{s ah]6sf] kl/lw leq /x]/ cg'udg sfo{ ul/g] 5 eg] cfufdL cf=j=x?sf nflu cg'udgsf] nflu ah]6 k|:tfj u/L lgsf;f eP adf]lhd ul/g] 5 .

**efu &**

**lgZsif{ / l;kmfl/;**

**(Conclusion and Recommendation)**

**&=!= lgZsif{ / l;kmfl/;**

of] k|:tfj kj{t lhNnfsf] ! j6f gu/kflnsf / $& j6f uf=lj=;= cGt/utsf ;a} /fli6«o tyf lghL jgdf sfof{Gjog x'g] 5 . k|:tfj sfof{Gjog x'g] If]qx?df kfOg] jg k}bfjf/sf gfdx? cg';'rL df pNn]v ul/Psf] 5 .

jftfj/0f ;+/If0f P]g @)%#, jftfj/0f ;+/If0f lgodfjnL @)%$ / jg P]g @)$( tyf jg lgodfjnL @)%! adf]lhd lhNnfsf] kfFr jflif{o jg ;b'kof]u sfo{of]hgf tof/ tyf sfof{Gjogsf nflu k|f/lDes jftfj/0fLo kl/If0f lgtfGt cfjZos / ;fGble{s b]lvPsf] 5 .

of] k|:tfj sfof{Gjogaf6 :yflgo :t/df 7"nf] /f]huf/L >[hgf x'g'sf ;fy} g]kfn ;/sf/nfO{ / lhNnf ljsf; ;ldtL kj{tnfO{ k|ToIf ?kdf /fhZj k|fKt x'g] 5 . o;sf ;fy} jg k}bfjf/df cfwfl/t pBf]ux?sf] k|jw{g x'g], jg If]qsf] j}1flgs Joj:yfkgåf/f pTkfbglzn jgsf] ?kdf ljsf; eO{ To;af6 ;d'Ggt / ljsl;t ;dfhsf] l;h{gf x'g'df 6]jf k'Ug] 5 . o; k|:tfjsf] sfof{Gjog x'g] If]qdf /x]sf] ef}lts, /f;folgs, h}ljs, ;fdflhs, cfly{s tyf ;f+:s[lts jftfj/0fdf k'Ug] k|efjsf] ljZn]if0fåf/f pQm If]qsf] lbuf] ljsf;df hf]8 lbPsf] 5 . of] k|:tfj sfof{Gjog x'Fbf kg]{ jftfj/0fLo k|efjx?nfO{ ljrf/ ubf{ k|lts'n k|efjx?s]f t'ngfdf cg's'n k|efjx? a9L /x]sf] b]lvG5 .

k|:tfjsf] ljsNk ljZn]if0f ubf{ j}1flgs jg Joj:Yfkg k|0ffnL cg';f/ ;+sng ug{ k|:tfljt k|:tfj sfof{Gjog ug'{ kg]{ :ki6 b]lvPsf] 5 . ljsNkx?sf] ljZn]if0fdf of] k|:tfjdf ;'emfOPsf Go"lgs/0fsf pkfox? cjnDa ub}{ Go"lgs/0fsf sfo{qmdx?sf] sfof{Gjog u/L tL pkfox?sf] cg'udgsf] pkfox?sf] ;'lgZrLttf gu/L jg k}bfjf/ ;+sng tyf ljqmL ljt/0f ug{ lhNnfsf] kfFr jlif{o ;b'kof]u sfo{of]hgf sfof{Gjog ug{ of] k|:tfj sfof{Gjogsf nflu l;kmfl/; ug{ ;lsg] :ki6 ?kdf b]lvPsfn] l:js[tsf nflu k|:tfj ul/Psf] 5 .

**efu \***

**;Gbe{ ;fdflu|x?**

**(Bibliography)**

**!=** g]kfn ;/sf/, jg ljsf; u'?of]hgf @)$^

**@=** h}ljs ljljwtf ;DalGw /0flglt @)%)

**#=** jg P]g @)$( / jg lgodfjnL @)%!

**$=** jftfj/0f ;+/If0f P]g @)%# / jftfj/0f ;+/If0f lgodfjnL @)%$

**%=** jg k}bfjf/ ;+sng tyf ljqmL ljtf/0f lgb]{lzsf @)%&

**^=** tLg jlif{o cGt/Ld of]hgf @)^$

**&=** jg If]qsf nflu k|f/lDes jftfj/0fLo kl/If0fsf] sfo{;"rL tyf k|ltj]bg lbUbz{g @)^$

**\*=** lhNnf jg sfof{no kj{tsf] k+rjlif{o jg ;b'kof]u sfo{of]hgf @)$(

**(=** ;fd'bflos jg >f]t ;e]{If0f dfu{bz{g @)^!

**!)=** g]kfn ;/sf/ / jg ljefusf kl/kqx?

**!!=** kj{t lhNnf j:t'ut ljj/0f, lh=lj=;= kj{t @)%\*

**!@=** kj{t lhNnf j:t'ut ljj/0f, zfvf tYof+s sfof{no :ofªhf @)^#

**!#=** cfjlws lhNnf ljsf; of]hgf @)%( lh=lj=;= kj{t

**!$=** ;f=j=p=;=x?sf] cg'udg tyf d'Nof+sg k|ltj]bg @)^$ lh=lj=;= kj{t

**!%=** jftfj/0fLo k|efj d'Nof+sg lgb]{lzsf @)^@

**!^=** vf]6f] ;+sng ;DalGw lhNnfsf] l:js[t EIA k|ltj]bg

**!&=** hl8a'6L tyf u}/sfi7 jg k}bfjf/ ljsf; lglt @)^!

**!\*=** Topo Map Parbat

**!(=** Land Use Map Parbat

**@)=** Nepal Biodiversity Strategy Implementation Plan 2006

**@!=** Manual of Afforestation, Nepal by J.K. Jackson

cg';'lrx?

cg';'lr ! M kj{t lhNnfdf jg k}bfjf/sf] dfu / cfk'lt{sf] cj:yf

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **cf=j=** | **hg;+Vof** | **jg k}bfjf/sf] df+u** | | **jg k}bfjf/sf] cfk'lt{** | | | | **36L jf a9L** | |
| **sf7 3=ld=** | **bfp/f 6gdf** | **;fd'bflos jgaf6** | | **;/sf/åf/f Jojl:yt jg** | | **sf7** | **bfp/f** |
| **sf7 3=dL=** | **bfp/f 6gdf** | **sf7 3=dL=** | **bfp/f 6gdf** |
| )&@÷&# | 146590 | 13779 | 85609 | 5236 | 3142 | 1605 | 963 | 6938 | 81504 |
| )&#÷&$ | 146590 | 13779 | 85609 | 5341 | 3204 | 1605 | 963 | 6833 | 81442 |
| )&$÷&% | 146590 | 13779 | 85609 | 5448 | 3269 | 1605 | 963 | 6726 | 81377 |
| )&%÷&^ | 146590 | 13779 | 85609 | 5556 | 3334 | 1605 | 963 | 6618 | 81312 |
| )&^÷&& | 146590 | 13779 | 85609 | 5668 | 3401 | 1605 | 963 | 6506 | 81245 |
| hDdf |  |  |  | 27249 | 16350 | 8025 | 4815 |  |  |

cg';"rL @ **M** u}/sfi7 jg k}bfjf/ lj?jfx?sf] jflif{s ;+sngof]Uo kl/df0f (Annual Allowable Harvest) ;DalGw ljj/0f

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| l;=g= | hl\*a'^L tyf u}/sfi& jg k}bfjf/sf] gfd | j}!flgs gfd | kl/df)f -s]=hL=\_ | | |
| ;/sf/åf/f Jojl:yt jg | ;fd'bflos jg | hDdf |
| 1 | cNnf] | *Girardina diversifolia* | 2528 | 15618 | 18147 |
| 2 | cu]{nL | *Edgeworthia gardneri* | 5564 | 12365 | 17929 |
| 3 | af]emf] | *Acorus calamus* | 1000 | 3000 | 4000 |
| 4 | lr/fOtf] | *Swertia chiraita* | 1500 | 14000 | 15500 |
| 5 | bfnlrgL | *Cinnamomum tamala* | 800 | 4200 | 5000 |
| 6 | s'/Lnf] | *Asparagus racemosus* | 2856 | 6347 | 9203 |
| 7 | nf}7;Nnf | *Taxus wallichiana* | 2602 | 15783 | 18385 |
| 8 | nf]Stf | *Daphne bhoula* | 1470 | 13266 | 14736 |
| 9 | gfUa]nL | *Lycopodium clavatum* | 10000 | 30000 | 40000 |
| 10 | kfvgj]b | *Bergenia ligulata* | 2486 | 5525 | 8011 |
| 11 | ;t'jf | *Paris polyphylla* | 288 | 639 | 927 |
| 12 | ;'uGwjfn | *Valerina jatamansi* | 191 | 425 | 616 |
| 13 | l6d'/ | *Zanthoxylum alamatum* | 694 | 1543 | 2238 |

cg';'rL # M k|f/lDes jftfj/0fLo kl/If0f cWoogsf] nflu k|:tfj sfof{Gjg x'+bf k|efljt x'g] :yflgo jfl;Gbf ;Fu u/]sf] 3/w'/L ;e]{If0f

lhNnf M uf=lj=;= M j8f g+= M ufpF6f]n M

cGt/jftf{ lbg]sf] gfd M pd]/ M k]zf M hftL M

s\_ kf/Ljfl/s ljj/0f

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| qm= ;+= | 3/d'nL ;Fusf] gftf | pd]/ | k'?if | dlxnf | z}lIfs of]Uotf | Joj;fo | jflif{s cfDbfgL |
| ! |  |  |  |  |  |  |  |
| @ |  |  |  |  |  |  |  |
| # |  |  |  |  |  |  |  |
| $ |  |  |  |  |  |  |  |
| % |  |  |  |  |  |  |  |
| ^ |  |  |  |  |  |  |  |
| & |  |  |  |  |  |  |  |

v\_ j;fO{;/fO{

!= oxfF a;f]af; u/]sf] slt jif{ eof] < =====================

@= sxfF af6 a;fO{ ;/]/ cfpg' ePsf] < ====================

#= tkfO{sf] kl/jf/sf] s'g} ;b:o c:yfO ?kdf Joj;fosf] nflu st} a;fO hfg' ePsf] 5 ls < =======

$= obL 5 eg] slt hgf, slt dlxgfnfO{, s'g 7fpFdf < ======================

u\_ e'–:jfldTj /f]kgLdf

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| qm=;+= | :jfldTj | l;+rfO{ x'g] v]t | l;+rfO{ gx'g] v]t | af/L | r/0f | cGo | hDdf |
| ! | cfkm\g} |  |  |  |  |  |  |
| @ | c?sf] sdfPsf] |  |  |  |  |  |  |
| # | c?nfO{ sdfpg lbPsf] |  |  |  |  |  |  |
| $ | v'b sdfPsf] |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

3\_ d'Vo s[lif{ pkh / pkef]u

!= vfBfGg afnL

|  |  |  |  |
| --- | --- | --- | --- |
| afnL | jflif{s pTkfbg | v'b vkt | ljqmL |
| wfg |  |  |  |
| ds} |  |  |  |
| u'xF |  |  |  |
| hf} |  |  |  |
| sf]bf] |  |  |  |
| kmfk/ |  |  |  |
|  |  |  |  |

@= gub] afnL -lS6G6ndf\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| afnL | jflif{s pTkfbg | v'b vkt | ljqmL | cfDbfgL ?= |
| pv' |  |  |  |  |
| t/sf/L |  |  |  |  |
| kmnkm'n |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

ª\_ pTkflbt vfBfGgn] wfGg] cj:yf

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # dlxgf | # b]lv ^ dlxgf | ^ b]lv ( dlxgf | jif{ e/L | ljqmL ug]{ |
|  |  |  |  |  |

vfBfGgn] gwfGbf s] pkfP ug'{ x'G5 <

r\_ kz'kfng tyf r/Lr/0f

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| lsl;d | ufO{uf]? | e}l;/fFuf | e]8fafv|f | a+u'/;'+u'/ | 3f]8fvRr/ | xfF;s'v'/f | cGo | hDdf |
| ;+Vof |  |  |  |  |  |  |  |  |

rl/r/0fsf] lsl;d M===============================================================================================

5\_ kz'hGo pTkfbg, pkef]u / ljqmL

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| pTkflbt j:t' | jflif{s pTkfbg | vkt | ljqmL | cfDbfgL ?= |
| b'w ln= |  |  |  |  |
| Wo" s]=hL= |  |  |  |  |
| v;L af]sf |  |  |  |  |
| s'v'/f xfF; |  |  |  |  |
| cGo |  |  |  |  |

h\_ ef}lts ;'ljwf

vfg]kfgL >f]t M

kfO{k M d'n M gbLvf]nf M cGo M

;'ljwf / b'/L

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ;'ljwf | vfg]kfgL | :jf:Yo rf}ls | c:ktfn | a}+s | x'nfs | 6]lnkmf]g | a; cfpg] ;8s | ahf/ | xf6 | cGo |
| b'/L ls=dL= |  |  |  |  |  |  |  |  |  |  |

em\_ dlxnfsf] cj:yf M

!= dlxnfsf] s[lif{ ;DalGw sfo{df lx:;f M

|  |  |
| --- | --- |
| sfo{ | lx:;f k|ltztdf |
| hldg tof/L |  |
| /f]Kg] |  |
| uf]8g] |  |
| sf6\g÷yGsfpg] |  |

@= dlxnfx?sf] ;DklQdf clwsf/ -:jfldTj\_

|  |  |  |
| --- | --- | --- |
| ;DklQ | :jfldTj | |
| 5 | 5}g |
| u/uxgf |  |  |
| 3/ |  |  |
| hldg |  |  |
| kz'÷k+lIf |  |  |
|  |  |  |

#= kf/Ljf/Ls lg0f{odf dlxnfx?sf] ;xeflutf

|  |  |
| --- | --- |
| ljj/0f | dlxnf ;xeflutf -k|ltzt\_ |
| 3/ agfpg |  |
| hUuf lsGg÷ ljqmL ug{ |  |
| 5f]/f5f]/L k9fpg |  |
| ljjfxjf/L ug{ |  |
| a;fO ;g{ |  |
| c:ktfn n}hfg |  |
| kl/jf/ lgof]hg ug{ |  |

`\_ k|d'v /f]ux?

|  |  |
| --- | --- |
| /f]ux? | pkrf/ ljlw |
| ! |  |
| @ |  |
| # |  |
| $ |  |
|  |  |

6\_ d'Vo rf8kj{x?

!=

@=

#=

$=

%=

7\_ tkfO{sf] ljrf/df IEE k|:tfjaf6 o; If]qdf s] s:tf c;/ knf{g / ltgLx?sf] Go"lgs/0fsf nflu s] pkfP cjnDag ug'{ knf{ <

kg{;Sg] c;/ Go"lgs/0fsf pkfox?

!= ;fdflhs

s=

v=

u=

@= cfly{s

s=

v=

u=

#= ;f+:s[lts

s=

v=

u=

8\_ cGo s]lx ;'emfj eP

ef}lts jftfj/0f tkm{

h}ljs jftfj/0f tkm{

cGt/jftf{ ug]{sf] gfd M ldlt M

cg';'lr $ M kj{tdf u}xsfi7 jg k}bfjf/ kfOg] If]q

