

2.1 ikfjr= l j{k.k ,o ic/ku

fogxkoykdu

c<rh gb tkx: drk fd ikfjr= l gk;rk] Hkk tu] fu;eu rFkk df"k lok, t l ik"kd pØ] Hkk tu rFkk LoPN ty mRiknu] ck< fu;=.k rFkk eukj tu LFky miyC/k djokrk g] u bl ckr ij /;ku dfUnr fd;k g fd ; lok, fd l idkj cny l drh g rFkk ; fd l idkj c<r g, i;koj.kh; ncko e ekuo dk ikfjr=k d Hkhrj ,d tho d : i e iR;Ùkj nu d fy, iHkkfor djxhA

tho/kkfj;k dh ifrfØ;kvk dk irk yxku& rFkk lok, tk o miyC/k djokr g&d fy, ikfjLFkfrdh; foKku dh foLrr le> dh vko';drk gkrh g tgk ij dn.k ;g le>u ij gkrh g fd fd l idkj tfod rFkk vtfod vr"Ø;k, ikfjr=k dh ljpuk rFkk dk; dk vdkj nrh gA ikfjr= l j{k.k rFkk ic/ku vulU/kku dk mnn'; cnyr g, lk;koj.kh; ifjn'; e itkfr;k] lenk;k rFkk ikfjr=k d vudyuh; ic/ku dk le>u d fy, ikfjLFkfrdh; foKku dk le>uk] 0;k[;ku djuk rFkk i; kx djuk gA

ikfjLFkfrdh; ic/ku dk i/kku mnn'; d'ky j[kj[kko rFkk ikdfrd l l k/ku dk ufrd mi;kx gA ikfjr= ic/ku ekurk g fd lkekft d& l kLdfrd] vkfFkd rFkk ikfjLFkfrdh; ikfjr=k dk ikjLifjd l c/k mu ifjLFkfr;k dk le>u e lokifj g tk lk;koj.kh; y{k; k rFkk ifj.kkek dk iHkkfor djrk gA ;g ,d cgvk;keh rFkk lex mikxe g ft l ikdfrd rFkk ekuoh; lk;koj.k dk d l vfHkKkr fd;k tk, d fy, egRoi.k cnyko dh vko';drk gA iHkkoh ikfjr= ic/ku d fy, db mikkek dk LFkkuh; ;k Hkn'; Lrj ij l j{k.k i;k lk d fy, fu;Dr fd;k x;k rFkk ft le vudyuh; ic/ku] ikdfrd l l k/ku ic/ku] j.kuhfr; ic/ku rFkk fujh{k.k rFkk fu;=.k ic/ku 'kkfey gA

,d ikdfrd l l k/ku ic/ku dk y{;} ikfjr= dk ud l ku igpk, fcuk vkj l l k/ku d Hkfo"; dk [krj e Mky fcuk ,d fn, g, l l k/ku d fy, ekx ijh djuk gA l hfer ikdfrd l l k/ku d vf/kd /kkj.kh; mi;kx dk iR l kgu nu d fy,

ikfjr= ic/kdk] ikdfrd l l k/ku ic/kdk rFkk i.k/kkfj;k dh Hkkxhknkjh dk iR l kgu fn;k tkuk pkfg,A

ifj;ktuk, l	i.l.k dh xbi ifj;ktuk, l	tkjh ifj;ktuk, l	o"k d nkjku ikjHk dh xbi ubi ifj;ktuk, l
lyku	18	19	25
ck ^o ; l gk;rk iklr ifj;ktuk,	11	11	15
dly	29	30	40

2-1-2 tyok; i ifjor'u

ou ikfjLFkfrdh d l nHk e 0; ofLFkr rFkk oKkfud v/; ;u oreku ifjn'; e vifjgk; gk x, g tc tyok; ifjoru ou ikfjr= dh xfrdh ij vkØe.k dj jgk gA cnyr g, tyok;oh; iVuk d l nHk e ikfjr=k d 0;ogkj dk le>uk vko';d gA tyok; ifjoru d cgvk;keh vk'; g tk fd vko';drk vulkj lcf/kr fo"k;k dk oKkfud rjhd l ly>k jgk g] dk jk"Vh; rFkk of'od nkuk Lrj ij ektnk ouk l mRikn rFkk lokvk d iokg dk cuk, j[ku d fy, vPNh oKkfud le> dh vko';drk gkrh gA

ou ikfjr=k ij tyok; d iHkkok d vuekfur :>kuk dh n"V l ;g cgr vko';d gk x;k g fd tc okfudh l DVj dk nh?kkfof/k vk/kkj ij icfU/kr fd;k tk, rk ;ktuk e tyok; ifjoru fopkj dk 'kkfey fd;k tk,A bld vfrfjDr fo'y" k.k rFkk icU/ku dh bdkb d : i e lhekvk l vf/kd ikfj&{k=k ij /;ku dfUnr dju dh xEHkhj vko';drk gA

fgeky;u jkMkMUM'ku dh _r l tfodh ij tyok; i ifjor'u dk iHkko

x<oky fgeky; d rxukFk&pkivk e v/; ;u djok;k x;kA pkj igyvk mYkj] nf{k.k] io] if'pe rFkk jkMkMUM'ku dh pkj itkfr;k t l vkj- vkckfj;e] vkj- ckjcVe] vkj- dEiuyVe rFkk vkj- ,UFkkikxku dk _r l tfodh v/; ;u d fy, p;fur fd;k x;kA iR; d LFky ij NkVk ek le



foKku dn vf/kdre] U;Ure rkieku] enk rkieku] ueh rFkk o"kk dk ,df=r dju d fy, LFkxfir fd;k x;KA iR;d LFky l lklrfgd vrjky ij vkdM fu;fer :lk l vfHkfyf[kr fd, x,A iR;d LFky ij lgk;d itkfr;k] mudh ?kurk] vk/kkj; {k= rFkk iutuu ij fo'y"kk fd;k x;KA



vkj- vkckfj;e e i"lk dyh dk f[kyuk

vkj- vkckfj;e e i"i.k



vkj- dEikuyVe e i"lk dyh

i"lk dyh dk f[kyuk



vkj- ,UFkkrlxku ouLifrd dyh

vkj- ,UFkkrlxku dily dk f[kyuk rFkk cht fc[kjko



fuEure&vf/kdre rkieku] ueh] o"kk rFkk lkyj fofdj.k d fy, ekleh; vkdM ,df=r fd;k x;

fofHkUu vk;] LFkyk vkj ic/k vf/k'kk lu e egRoil.k o{k itkfr;k d dkcü iy {kerk ij eY;kdu

v/;;u dk y{; fofHkUu LFky voLFkkvk e lxxku] ;dfyIVl] dTokfjuk rFkk ,df'k;k d jki.kk e dkcü iy dk vkdyu djuk gA *vkl r o{k rduhd* ¼vkV ,.M ekd 1971½ dk vxhdkj djd jki.kk dh lEifyx dh xBA jki.kk dh lEifyx u fofHkUu ic/ku fØ;kdykik e[;r% flfpr rFkk Hkjij o"kk voLFkkvk dk Hkh doj fd;kA lHkh v/;;u fd, x, jki.kk l fefJr enk ueu 30 l-eh- rd l enk dkcü rFkk vkb ih l h fn'kk fun'kk dk vkdyu dju d fy, ,df=r fd, x,A oreku v/;;u e l [kh lkexh mRiknu ij ifj.kkek u idV fd;k fd mijkDr Hkfe to it e vrj lcl NKV rFkk lcl cM ?kj oky o{k e ,d leku vk; oky jki.kk e 2 vkj 3 QkYM ;k fo'k"kdj vdj mnxe d jki.kk e ,d leku vk; oky jki.kk d Hkhrj ueuk o{k e l [kh lkexh mRiknu e ,l h fofHkUurk dk J; cht mnxe e jki.kk e ektn LoHkktod vkuof'kd fofHkUurk dk fn;k tk ldrk gA dTokfjuk d jki.kk e fofHkUu to it dh vklr mRikndrk d lnhk e ru dh mRikndrk e cgr cMk vrj n[kk x;k tk fd n'k dh Hkhrjh Hkxk ¼4-41 MT ha⁻¹ year⁻¹½ dh ryuk e rVh; {k=k ¼9-67 MT ha⁻¹ year⁻¹½ e vf/kd FkkA nk {k=k d chp e v/;;u fd, x, ruk dk"B mRikndrk e fHkUurk dk J; tyok;oh; ?kVdk e ifjoru fo'k"kdj o"kk dh ?kurk rFkk forj.k dk fn;k tk ldrk gA tc n'k d Hkhrjh Hkxk l ryuk dh xb rk ;g voykfd fd;k x;k fd dy okf"kd o"kk mPp g rFkk o"kk dk forj.k rVh; {k=k e vPNh idkj l gvk gA vxrj enk ruk dk"B mRikndrk dk Hkh iHkktfor djr h g rFkk ;g Hkh voykfd fd;k x;k fd ovh lky dh fpduh feVvh e ruk dk"B mRikndrk yxHkx 50% de Fkh tc jrhyh ¼bulIVh lky½ rFkk yky ykeh ¼,yQh lky½ enkvk l ryuk dh xBA ,YQh lky rFkk bulIVh lky u l h- bfDo l hfVQkfy;k d jki.kk e vPNh enk ok; l pkj.k miyC/k djok;k x;k g] tk vf/kd dk"B lfoU;k l dk ij.k nrk g rFkk vf/kd ik"kd miyC/k djokrk g rFkk vf/kd ruk mRikndrk dk rFkk dkcü vf/kxg.k {kerk dk c<krh gA vr% ;g fu"d"kk

ikfjr= l j {k.k ,o icU/ku



fudkyk x;k fd ,YQHlky rFkk bulIVhIky dk
vR;kf/kd dkc v/kxg.k d fy, oj;rk nh tk
ldrh gA ,d iLrd fo"kk; *rfeyukM d [krk e
dTokfjuk bfDofIhVQkfy;k^ d jki.kk d fy, {k=h;
mit lph rFkk dkc lph* oreku v/;;uk d
ifj.kkek d vk/kkj ij foekfpr dh xb gA

mUur CO₂ Lrjk d v/khu dkc v/kxg.k d
fy, **0;fDrxr Hkfe e o{k [krh** dk;Øe d
o{k i t kfr;k dk eY;kdu

;g v/;;u egRoi.k o{k i t kfr;k dh
ifrfØ;k dk le>u d fy, iLrkfor fd;k x;k Fkk
tk mUur CO₂ Lrjk d rgr rfeyukM jkT; ou
foHkkx d *0;fDrxr Hkfe e o{k [krh* dk;Øe e
mi;kx fd, x, FkA v/;;u e tkp rFkk i t kfr;k d
p;u ij ,d ldkjRed ifrfØ;k fn[kh fd mRikndrk
dk c<ku rFkk dkc v/kxg.k {kerk dk l/kkju o
cm ieku ij jkfir dh tk ldrh gA v/;;u l
fu"d"kd fudyk fd CO₂ dh fofHkUu l?kurkvk d ifr
fofHkUu o{k i t kfr;k dh ifrfØ;k fofHkUu rkiekuk
d v/khu mPpre :lk l ?kVu c<u okyh Fkh ft lu
l Hkh egRoi.k m".kdfVc/kh; o{k i t kfr;k d mUur
,dy :lk l vkdyu dh vko';drk ij cy fn;k
rFkk mUur CO₂ d v/khu o{k i t kfr;k dh ifrfØ;k
dk 0;kid u dju dk dgkA VDVkuk xfuMl
dTokfjuk >?kgfu;kuk] ikxkfe;k fiUukVk] dTokfjuk
bfDoIhVQkfy;k] , tfmjDVk bfMdk rFkk ehfy;k
Mfc;k o i t kfr;k g ftUgku CO₂ mUur d
900 ih ih ,e ij ldkjRed ifrfØ;k nh rFkk bu
i t kfr;k ij mUur CO₂ rFkk rkieku Lrjk ij
vR;kf/kd dkc v/kxg.k d fy, fopkj fd;k tk
ldrk gA ;g Hkh fu"d"kd fudkyk x;k fd leku ;k
v/kd vrtkth fofHkUurk l vR;kf/kd
bUVk&LifLQd fofHkUurk ink gkrh g fo"kk"kdj
dTokfjuk bfDoIhVQkfy;k rFkk l h- >?kgfu;kuk e
ft l v/kd CO₂ v/kxg.k dh vR;kf/kd {kerk oky
tyok; mntr thui:ik d fodkl d fy, Hkfo";
ituu dk;Øe d fy, 'kkf"kr fd;k tk ldxkA
eY;kfdr dh xb i t kfr;k e VDVkuk xfuMl
eykbuk vkckfj;k] ehfy;k Mfc;k rFkk ikxkfe;k
fiUukVk dk mUur CO₂ d rgr vR;kf/kd l[kh
lkexh ink djr g, voykdr fd;k x;k g rFkk gk

ldrk g fd bUg mUur CO₂ d Hkfo"; Lrjk d fy,
ouhdj.k dk;Øe d fy, *dkcu 'kk"kd* d :lk e
vulf'kr fd;k tk,A

vk/k in'k d mYkj {k= e okuLifrd dkc
iy vkdyu

JhdKdye] fot;kuxje rFkk fo'kk[kkiVVue
ftyk e ckgjh ou {k=k e 21 ou LFkyk rFkk 30 o{k
e okuLifrd dkc iy vkdyu ikjHk fd;k x;kA
LFky fooj.k] ou i:lk] enk, rFkk vU; iklfxd
vkdM vfHkyf[kr fd, x,A l Hkh ikni ueuk dk
vfHkKkr fd;k x;k rFkk vxrj v/;;u d fy, mUg
ikniy; e yk;k x;kA ueuk vko';drkvk dh ifr
d fy, DokMjVI cuk, x, rFkk iR;d DokMjV e
o{k] >kfM;k rFkk tMh cfV;k vfHkKkr dh xBA
th ch ,p] Åpkb] ikni i t kfr;k dk rktk rFkk
l [kk to it vfHkyf[kr fd;k x;kA

vk/k in'k d N% ftyk d fy, jk"Vh;
okuLifrd dkc iy vkdyu

0-1 g- iR;d d pkj DokMVI d }kj
fu/kfjr Hkxkfyd fun'kkdk ij 36 Hk[k.M v/;;u
fd, x,A mi;Dr to it ij vkdM rFkk cLrh dh
lpuk ,df=r dh xBA vk/k in'k d N% ftyk ;Fkk
ehMd] egccuxj] xVj] ukyxkMk] jxkjMMh rFkk
gnjkcn ftyk e dy ou to it vkdfyr fd;k
x;kA bl h idkj 30 LFkyk ij ouk d ckgj o{k dk
to it vkdyu ij ij fy;k x;k gA

e/; in'k e df"kd okfudh rFkk tyfoKkuh;
vuji; kxk d fy, Lopfyr ek le
LV'ku@df"kd ek leh; LV'ku vkdMk dk
mi;kx

e/; e dUgk jk"Vh; ikd ¼d-,u-i-h-½ ck/kox<
jk"Vh; ikd ¼ch-,u-i-h-½ vkj ek/ko jk"Vh; ikd e
Lopfyr ek le LV'ku ¼,-Mcy;-,- l-½ vkj df"kd ek le
foKku LV'ku ¼,-,-e,- l-½ d lehi LFkyk dk p;u fd;k
x;kA p;fur LFkyk e ?kk l to it v/;;u fd;k x;kA
v/kdre ?kk l mRiknu flRcj ¼cj lkr d ckn dk
ek le½ rFkk fnlEj ¼lfn;k dk ek le½ e ik;k x;k
tk fd rhork l ekp d ek le e ?kv x;kA 30 l-eh-
d vrjky ij enk ueh ikQkby rFkk 150 l-eh- dh
xgjk rd vk;ruh fof/k d }kj ikjekf.kr fd;k
x;kA jkUMk dUgk jk"Vh; ikd e ,,-e,- l- dk



lLFkkiu fd;k x;k tk fd fpduh yke enk d l kFk ,d lery {k= gA lHkh pkj eklek e xgjk b d l kFk ueh c< xb D;kfd yEcor fj lko rFkk ikuh dk lp;u fuEure f{kfr tk dh vkj FkkA l i[kkj {k= dh enk jrhyh yke l yke FkhA lrg l enk ueh 60&90 l-eh- vkj 90&120 l-eh- rd c<h rFkk mud lk'pkr ddMk dh mifLFkfr d dkj.k gYdh de gk xBA vf/kdre enk ueh flrEcj mld lk'pkr fnlEcj rFkk ekp e vfhkfyf[kr dh xBA th ch ,p d fo:) mi;Dr Hktoit dk c<ku d fy, irhixeu lehdj.k 'kkfj;k jkLVk d fy, fodflr fd, x,A rhuk jk"Vh; ikdk d e[; o{k itkfr;k d fof'k"V iYkk {k= fxu x,A



jk"Vh; m|kuk e , -MCY;- , l- rFkk , -, e-, l- d fudV ?kk l to it v/; ;u



jk"Vh; m|kuk e , -MCY;- , l- rFkk , -, e-, l- d fudV enk ueh : ij[kk v/; ;u

fMiVhjkdkiil ou e: yhVj $\frac{1}{4}$ [kjirokj $\frac{1}{2}$ l{e thoh xfrdh ij tyok; ifjoru dk iHkko

ifj;ktuk dk y{; fMiVhjkdkiil ouk e vi?kVd l{e dodh; tul[; k ij tyok; oh; ijkehVjk d iHkko dh ttp djuk rFkk tyok; ifjoru d l{e thok dh {kerkoku to lpd itkfr;k dh igpku }kjk [kjirokj l{e thoh xfrdh ij tyok; ifjoru d iHkko d fy, ,d iodFku ekMy fodflr djuk FkkA [kktk l ;g voykfd r fd;k x;k fd lHkh vi?kVd l{e dod lHkh tyok; voLFkkvk e ugh mit rA bu g v/; ;u LFky ij vuHko d vk/kkj ij rhu ekle e J.khdr fd;k x;k gA o"kk rFkk rkieku dh ,d fo'k"k jt e iR;d dodh; itkfr dh mifLFkfr iVu dk vfhkfyf[kr fd;k x;kA ;g n[kk x;k fd ,d fuf'pr leg ,d fuf'pr tyok; oh; iVu dk ifrfuf/kRo dj jgk gA dN itkfr;k o"k d lHkh eklek e fn[kkb nh rFkk dN u viuh mifLFkfr dk ,d vdy ekle d fy, ck/; fd;kA , l h [kktk u vi?kVd ekbØk tykj ij tyok; oh; ijkehVjk d fopkj.kh; iHkko dk ,d ey fopkj fn;k gA fufu?u ou ikfjr=k e ikni drjk dk vi?kVu ,d cM ieku ij ik"kd dh okilh nrk gA l{e thoh tul[; k efd l h Hkh idkj dk l/kkj tk fd [kjirokj $\frac{1}{4}$ [kjirokj $\frac{1}{2}$ vi?kVu dk iHkko for dju okyk ,d e[; ijkehVj g] l ou ikfjr=k dh dy mRikndrk e fo/u vk ldrk g rFkk ,d Hk; Hkh ink dj ldrk g ;fn vi?kVu e ouLifr ifr dy fjDrhdj.k gkrk g ifj;ktuk dh [kktk u bl vi?kVd dh Hkfedk dk



[kjirokj fit j l ueuk dk l xg.k



,d {kerkoku tyok; ifjoru lpd d :lk e o.ku fd;k g D;kfd mudh mifLFkfr ,d fo'k'k tyok;oh; voLFkk dk ifrfuf/kRo djrh ga ifj;k tuk dh [kk tk dk vxyh i thdr ifj;k tuk fo'k; **fMiVhjdki l ou enk e CO₂ mR l tu rFkk fLFkjhdj.k tyok; ifjoru d lnhk e vtfod rFkk tfod ?kVdk dk iHkko** e vk/kkj j [kk vkdM d :lk e mi;kx fd;k tk,xk ftle vkdM dk fleyV fd;k tk,xk rFkk tyok; ifjoru d lpd d :lk e bu l {e thok dh Hkfedk dk 'kk'k.k dju d fy, vf/kd tfod rFkk vtfod ?kVd fuxfer fd, tk,xA

mY'kj iohi Hkkjr d dN jkT;k e; fofHkUu Hk mi;kx r=k d v/khu enk dk dku fld rFkk moirrk fLFkfr l c/k

p;fur jki.k ouk rFkk vU; ouLifr;k ;Fkk&pk;] dkQh] jcm rFkk >e Hkfe vle] e?kky;] f=i jk rFkk ukxky.M jkT;k d byk;ph jki.kk dh enk dk y{k.k o.ku fd;k x;k rFkk p;fur ou rFkk vU; Hk&mi;kx r=k d v/khu enk dku fld dk vkdyu fd;k x;kA flfDde jkT; d byk;ph lykV d v/khu enkvk e vkxfud dku rRo mPp ik, x, rFkk 2-25 l ydj 4-72% rd fHkUu ik, x,A flfDde d byk;ph jki.kk d v/khu enk, vEyh; Fkh rFkk ph eY; 3-9 l ydj 5-8 rd fHkUu Fkh rFkk jr ljpuk l c/kh J.kh l l c/k j [krh ga vkxfud dku dh mPp ek=k d dkj.k o Hkkj e gYdh FkhA ;g ik;k x;k fd byk;ph jki.k e miyC/k QkLQkj l rRo de ik, x,A Ajh vle pk; jki.k enk e miyC/k QkLQkj l rRo de FkA fMig rFkk vle d l kFk yxr {k=k l l c/k j [krh pk;] dkQh] jcm rFkk >e Hkfe enk d miyC/k QkLQkj l rFkk ikvf'k;e rRo ehfM;e d fy, de FkA >e Hkfe d v/khu enk vkxfud dku ¼, l vk l h½ mPp ikb xb tcf d jcm jki.k {k=k d v/khu ;g de Fkk rFkk dkQh jki.kk d v/khu , l vk l h dh cgr fHkUurk FkhA l Hkh enk, jcm] dkQh rFkk >e Hkfe d v/khu gYdh vEyh; l rVLFk FkhA

gkQyx d miyC/k ikvf'k;e rRo rFkk vle dh ,u l h igkMh d l kFk yxr {k=k dkQh d fy, e/e; rFkk >e d fy, fuEu l mPp FkA

QkLQkj l rRo fuEu ik, x, ijr , l vk l h mPp ik, x,A enk, vEyh;] <hyh rFkk fNn;Dr FkhA vle e ckuxkbxko] dkdj>kj] xkyikj rFkk dke:l k jkT;k l lcf/kr jcm v/khu enkvk e miyC/k ikvf'k;e rRo vf/kdk'k ueuk e e/e; ik, x, rFkk dN ueuk e fuEu rFkk mPp ik, x,A fuEu QkLQkj l rRo rFkk mPp , l vk l h ik;k x;kA enk, vEyh; ikb xba

ekdkdpx l ,df=r enk d miyC/k ikvf'k;e rRo e/e; j t d ik, x, rFkk idfr e vEyh; ik, x,A enk vkxfud dku mPp ik, x,A miyC/k QkLQkj l rRo fuEu ik, x,A enk, fpduh feVVh l fpduh cyb feVVh dh cukoV d l kFk gYdh ikb xba f=i jk jkT; d jcm jki.k d v/khu enk vkxfud dku fuEu rFkk e?kky; e mPp ik;k x;kA miyC/k QkLQkj l rRo fuEu Fkk rFkk ; e[; r h jrh fpduh feVVh cyb cukoV e ikb xba



fMig e vk/fud >e Hkfe



fMig e Qyu voLFk e dkQh dk ik/kk



rjk] e?kky; e pk; dh iŭkh
dk l xg.k



rjk] e?kky; e >e Hkfe e /kku]
eDdh dh [krh



rjk] e?kky; e
jcM jki.k



e?kky; e likjh d v/khu
dkQh jki.k

mŸkj h jk t LFkku e; dN jkT; k; e; ouLifr dkcü
i y eY; kdu

ifj; ktuk dk mxrh gb ouLifr e dkcü
dk vueku yxku rFkk Jhxxkuxj] guekux<] p:]
>>u] f'kdj rFkk t; ij jkT; k e ouk rFkk ouk d
ckgj o{kk ¼Vh vk , Q½ e dkcü xfrdh dk vkdyu
dju d mnn'; I ikjHk fd; k x; k Fkka bu jkT; k e
dy 19 ou LFkyk ¼76 Hk[k.M½ rFkk ouk d ckjg o{kk
¼Vh vk , Q½ d v/khu 33 Hk[k.Mk dk lo{k.k fd; k
x; k rFkk QkjLV Cykd e iR; d LFky e pkj Hk[k.Mk
d xYe ueuk e o{kk rFkk >kfM; k ekih xba 21 o{kk
rFkk 11 >kMh i tkfr; k v/; ; u {k= e vfHkKkr dh
xba i tkfr; k dh mPpre l [; k t; ij rFkk mld
lk'pkr guekux< ou foHkx e FkhA guekux<

foHkx u ih- flufj; k rFkk tM- ueyfj; k d
^jfxLrkuh dVhy ou** fn[kk, ijr mle ik/kfi/
tyhŸyjkj u vkØe.k dj fn; k g ft lu 25% {k=
ij vf/kdj dj fy; k gA foHkx e o{kk e ou
vkPNknu ij , df'k; k fluxy dh i/kkurk g rFkk
>kfM; k e ekbVhu l be thukV@ tM- ueyfj; k dh
tcf d >>u e ih- tyhŸyjkj dh i/kkurk FkhA f'kdj
foHkx e ou vkPNknu e 75% {k= e , ukth l l
iMyk dh i/kkurk g rFkk mld lk'pkr 25% {k= e
cklofy; k fljkVv ga t; ij e 18% ouk ij
, - iMyk] 36% ij ch- lhjkVv] 18% ij
ih- tyhŸyjkj] 18% ij , - fluxy rFkk 10% ij
, df'k; k dVp o{kk i tkfr; k dh i/kkurk ga >kfM; k
e t; ij e i/kku i tkfr; k , e- , e thukVv FkhA



>>u e ijku
,ukthll iMyk ou



>>u e vc ih- tyhlykj
dh i/kkurk oky ou

mYkj ioh jktLFkku e vf/kdk'k 'k'd igkMh
{k= dk , - iMyk u ?kjk gvk g ijr vc ble
ih- tyhlykj Qy x;k gA

ikfjr= Ij{k.k ,o icU/ku

jktLFkku d: fofHkUu ou fdLek e: dkc'u
iFkDdj.k ij v/;;u

ifj;k tuk bu mnn';k d lkFk ikjHk dh xb
Fkh ¼1½ ou enkvk e dkc'u LVkd dk vkdyu djuk
¼2½ ou [kjirokjk e dkc'u LVkd dk vkdyu djuk
rFkk ¼3½ mi;Dr rFkk fuEu HkE; ifjd toit e
dkc'u LVkd dk vkdyu* jktLFkku e ouk d dkc'u
LVkd dk vkdyu miyC/k djuk* rkfd bl {k= e
;ktuk rFkk ouhdj.k@iuouhdj.k dk;Øe d
fu"iknu e bl dk mi; kx fd;k tk l dA

nk lk vMrhl ou Cykdk d doj djr g,
12 fty rFkk 254 Hk[k.Mk dk 2010&11 e lo{k.k
fd;k x;k rFkk o{k rFkk >kfM;k dk ekik x;k rFkk
>kfM;k@?kk l dk toit vfHkfyf[kr fd;k x;k; kA
[kjirokj] ikni rFkk enk ueu Hk[k.Mk l ,df=r
fd, x, rFkk dkc'u d fy, fo'yf'kr fd, x, A
tlyej dk >kMhmkj fVCck {k= dyhxxue
ikyhxkukbm l d }kjk i/kkurk okyk g tk fd jr
cgko dk fu;f=r dju e lgk; rk djr gA vYo]]
<kyij rFkk Hkjrij e ih- tyhlykj dh i/kkurk g
tcf d HkhyokMk e o{k i tkfr;k d : lk e ,df'k;k
Y;dklykb;k dh i/kkurk gA Vkd rFkk Hkjrij
foHkxk d dN Hkxk e vHkh Hkh ,ukthll iMyk dh
i/kkurk gA vtej foHkx e , -luxy dh i/kkurk g
tcf d ckjku foHkx e tkbeukLikfj;k i tkfr rFkk
ch- ekukLieK dh i/kkurk gA Hkjrij e lo{k.k d
nkjku fe=kX;kuk iohlykj dk ,d bykdk
voykfd r fd;k x;k ijr vc ou e ih- tyhlykj
Qy x;k gA

ikp lk vBklh Cykdk dk doj djr g,
27 ftyk e] irkix< d vrfjDr lHkh ftyk d ou
Cykdk e ih- tyhlykj vfHkfyf[kr fd;k x;k; kA
0;k l ij o{k; Åpkb] Åpkb rFkk 'kh"k 0;k l Øe'k
12-26 l ydj 48-32 l-eh- rd] 1-51 l ydj 7-83 eh-
rFkk 2-63 l ydj 9-00eh- rd fHkUu Fkh tcf d vk l r
vk/kkj; {k= pkM Qy tM r= d lkFk 111-3 l
ydj 2252-8 l-eh-² ifr gDV;j Fkka ih- tyhlykj
dh ?kurk rFkk mifLFkr dh vkofr Øe'k 0-8g-⁸¹ l
ydj 2-78 rd f'k[kj e 17-81g-⁸¹ ¼ikyh½ rFkk
68-97% ¼vtej fty½ rd fHkUu FkhA yxHkx



35-4% d ou Cykd ih- tyhlykjk l f?kj g, gA
ftud Hkfo"; e c<u dh l Hkkouk gA



ft thQl ueyfy;k %Äij% rFkk ik l kfi l tyhlykjk %uhp%
toit d fy, [kkn dj ckj fudkyk gvk ik'kd rFkk
dlh gb tMk dk fn[kkrk gvk tM r=

ngjknu ei ok; x.koYkk vkdyu d fy, ok;
in'k.k t'o&ekuhVfjx LV'ku dk fodk l

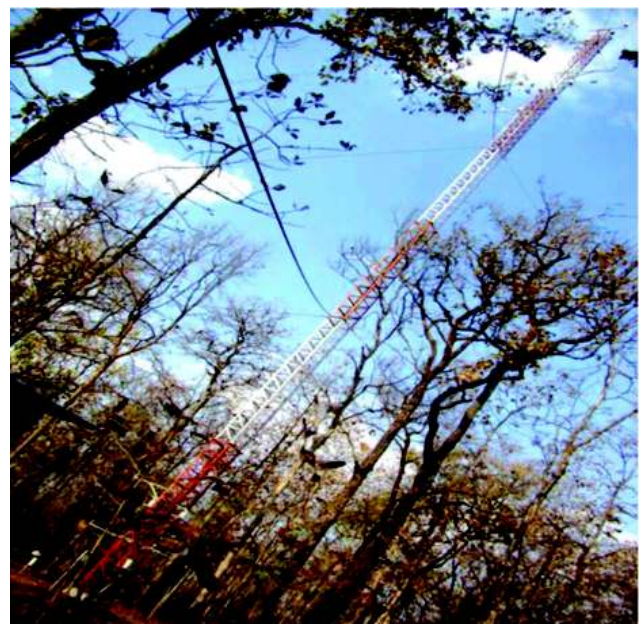
nk to ekuhVfjx LV'ku] ,d 'krkCnh ou foKku
dUn] ou vu l U/kku l LFkku] 'kgj ifj l j] ngjknu e
rFkk n l jk l ykdb vk | kfxd {k=} ngjknu e bu
LFkyk d ok; x.koYkk vkdyu dk lfØ;
toekuhVfjx rduhd dk vxhdr djr g, dju d
fy, fodf l r fd, x, gA

vk | kfxd {k= d ok; x.koYkk Lrj d
vkdyu d fy, ok; in'k.k d fy, ikni lonh
rkfydk vkj ok; in'k.k rkfydk dk fodk l fd;k
x; kA nkuk to&ekuhVju LV'kuk ; Fkk& l ykdb

vk | kfxd {k= vkj 'krkCnh ou foKku dn d ok;
x.koYkk dk eY; kdu dju d fy, db lfØ; to
ekuhVju v/; ; u fd, x, A

Hkkjr ei okuLifrd dkc u iy vkdyu
ifj; ktuk

Hkkjr d fofHkUu of'od ikfjr=k e dkc u
iyk rFkk vif'k"Vk dk vkdyu dju d fy, Hkkjr h;
vrfj{k vu l U/kku l LFkk %bl jk% d th; kLi; j rFkk
ck; kLi; j dk; Øe %th ch ih% d v/khu Hkkjr h; nj
lonh l LFkku %vkb vkb vkj , l % u , d jk"Vh;
dkcu ifj; ktuk % , u l h ih% dk dk; ikjHk fd;k gA
ifj; ktuk u ouk dh vLFkbb lph rFkk enk dkc u
LVkd rFkk okrkoy.kh; okuLifrd lhek d l kFk
dkcu fofu; e d eki ifr: i.k dh ifjdYiuk dh
gA , MMh dojh; l rduhd dk i; kx djr g,
N% dkcu cgko ekiu Vkoj n'k d ikp e[; ou
Vkbik e l LFkfkir fd, x, gA chry % l xku ou%
e/; in'k mu e l , d gA ifj; ktuk dk mnn';
ifr: l k.k dk l gk; rk nu d fy, ouLifr rFkk enk
ijkehVjk dk ekiuk rFkk ou lo/ku lph ic/ku rFkk
mi; kx l l cf/kr vkdMk d dkcu d uV ikfjr=
fofu; e d vkdyu d fy, , df=r djuk gA



dkcu QyDl Vkoj

ikfjr= l j {k.k , o icU/ku



LFky ij o'kk dh x.kuk



[kji rok] l xg.k

oulifrd i. kkyh e: Å tki , o: n0; eku fofu; e%
l {e eki i) fr rFkk lkbVhykehVj dk mi; kx
djr g, N= okrkoy.kh; fofu; e ekMfyx

p; fur phM jki. kk %ou ikfjr=½ d Åij
l {e eki i) fr rFkk to Hkkfrd ijkehVjk d
bu&lhV eki fd, x, A Hk&Irg ifØ; k ekMyk dk
mi; kx djr g, ekMfyx N= okrkoy.kh; fofu; e

ikfjr= l j {k.k , o icU/ku

ifØ; k, rFkk ikFkfed mRikndrk dh xBA bu&lhV
ekik dk mi; kx djr g, lVykBV 0; RiUu
ijkehVjk dk eku; dj. k fd; k x; kA

2-1-3 ikfj&iu:)kj

; ijfu; e [kkuk e: ikfj&iu:)kj v/; ; u

[kk | J[kyk d }kj k okrkoy.k , o ck; kLi; j
e jfM; k, DVhfoVh d LFkkukUj.k dk jkdu d fy,
ou vu l U/kku l LFkkuk ngjknu d okkfudk dk ny
rFkk , u , ch Vh Mh }kj k dh xb [kk tk d vk/kkj ij
; g vu'k l k dh xb fd%

D; kfd vif'k"V rkykc ouk d vkl ikl gkr
g xgjh tMk okyh dk"V i tkfr; k d itud {k= e
vkØe.k dj ldr gA vif'k"V rkyck ij fu; fer
oulifr vuJo.k ikjHk dju dh vko'; drk gA
vdjk@NkV ik/kk d ekuoh; fu"d"k.k d }kj k
xgjh tMk okyh i tkfr; k t l , df'k; k fuykfVdkj
C; fV; k ekukLie k rFkk ohVD l uhx. Mk BR; kfn d
vkØe.k dh tkp dh tk ldrh gA

Idje LikUVuh; e dk vif'k"V rkyck
dh ifjf/k e gfjr bykd d : l k e mxu dh vuefr
nh tk ldrh gA

itkfr; k t l dkyhcdh; k] vif'k"V Qfy; k]
MkMkf; k foLdk l k] QjØb; k QkbfVMk] bfEij kV
l hyfUMdk] tV kQk xkf l i h Qfy; k] ikxkLVheku
c?kkyU l h rFkk Idje LikUVuh; e dk jfM; k U; Lykbl
dh fuEure l knrk d l kFk vfHkKkr fd; k x; kA ;
mFky tM r= d l kFk v[kk l] de Åpkb vkj T; knk
N= vkoj.k d l kFk gfjr gA p; fur lkr i tkfr; k
iknik }kj k jfM; k U; DykbM d mnxg.k dh U; ure
l knrk rFkk fuEu [kk t h l hek dk n'kkrh gA

x<oky fgeky; e: MkMk Jhukxjkt k e:
ikfj&iu:)kj rFkk l j {k.k igy

v/; ; u u idV fd; k fd MkMk Jhukxjkt k
d vkl ikl jgu oky ykx ; k rk etnj Fkk ; k rk
vk; d l hfer l k/kuk d l kFk xj ekeyh fd l kuA
mudh [krh l feyu oky mRikn rFkk i'kvk dk fcuk
0; k ikfjd mi; kx d ?kjy Lrj ij mi; kx fd; k



x;ka o b/ku rFkk pkj d fy, utnhdh ouk ij fuHkj gA {k= e [kyh pjkb vke gA ykx lkenkf; d Hkfe rFkk ouk l ?kk l bDVBk djr g rFkk l [kku d lk'pkr bl yi fd, g, o{kk ij j[kr gA ; l [kkb xb ?kk l lfn;k d nkjku mi;kx dh tkrh gA yxHkx 60% ykx {k= e i< fy[k gA bue l 40% efgyk, i<h fy[kh gA bu xkok e iR;d cPpk Ldy tku okyk g ijr 0; ofLFkr ;krk;kr dh deh gA ihu dk ikuh uyk l iklr gkrk gA [krk dh lhekvk ij vke o{k g% cgfu;k iifj;k %ley% Vuk flfyV% %Vu% xhfo;k vkifVok %Hkhey% vktHfu;k vktHfu l l %Ingku% rFkk Vehufy;k VkeuV% l %lu@vluk% bR;kfNA bl d vfrfjDr [krk e dN Qy gA ; g tdQy] ve:n rFkk pdkrjk bR;kfNA df"k Qlyk e {k= e mxkb tku okyh e[; Qly g eDdk] xg] egvk] jkenkuk] mMn] rkj] l k;kchu] /kku bR;kfNA ijr dN o"kk l vdky d dkj.k bu Qlyk dh mit e rho deh vkb gA df"k ij vk/kkfjr mit rFkk vFk0; oLFkk d lnhk e df"k mRiknk dk dkb cktkjhdj.k ugh g rFkk o vf/kdk'k ?kjy :lk l mi;kx fd, tkr gA Vehufy;k phcyk %gjM% Vfeufy;k cyjhd% %chgMk% xohfy;k jkclV% %flyoj vkd% cgfu;k ofjxkV% %dpukj% D; i l l V% yk l k rFkk dN vU; dk jki.k fd;k x;ka bu itkfr;k e l flyoj vkd iFke in'ku djr gvk ik;k x;k tcf d gjM nlj LFkku ij rFkk ml LFky ij vU; itkfr;k u [kjk in'ku fn[kk;ka ml o"k lfn;k e jki x, v[kjV% u vPNk in'ku fd;ka lkekftd ckM rFkk ueh ifr/kkj.k f0;kdykik u Hkh ouLifrd ?kurk e ,d Lej.kh; ifjoru yk;k gA tkx: drk dk; Øek d }kjk okfudh i)fr;k d vxhdj.k d fy, ykx iKR l kfgR g, gA

uhyfxjh dh igkfM;k] rfeyukM; e fuEuhd'r 'kkyk ouk d iu:)kj d fy, 'kkyk l ykHkdkjh l {e ouLifr dk 'kk" k.k rFkk mi;kx

dkVfxjh] xyekjxu] xouj 'kkyk] dfj;kekM rFkk uhyfxjh igkfM;k e ik;dkj {k= e fofHkUu 'kkyk itkfr;k d tM {k= l rfeyukM e ,df=r jbt kLi;j enk ueu fo'yf"kr fd, x,

rFkk , ,e dodh; cht.k.k tul[;k dh fLFkr rFkk ih th ih vkj tul[;k ?kurk vfHkfyf[kr dh xBA rhu idkj dh , ,e dod vdkÅy kLi k] fxxkLi k] rFkk Xykel vfHkfyf[kr fd, x,A ih th ih vkj , l d 94 vkblyV %ih , l ch 42 vkblyV] , tkVcDVj 26 vkblyV rFkk , tLihjfy;e i-26 vkblyV% dk iFkd rFkk vfHkKkr fd;k x;k rFkk bu itkfr;k d 'k) dYpj lLFkku d tuun0; e vxrj v/; ;u d fy, ikf"kr fd, x,A vkj , , mRiknu rFkk QkLQV lky;fcykt'ku d }kjk {kerkoku ih th ih vkj vkblyV% dh tkp dh xb rFkk ik/k'kkyk i;kx d fy, lok'ye vkblyV% dk p;fur fd;k x;ka fofHkUu 'kkyk LFky l ,df=r l Hkh enk ueuk dk fo'yf"kr fd;k x;k rFkk Hkkrfd jkl;k;fud x.kk t l ih ,p] b l h] ogn ik"kd d fy, ikdfyr fd;k x;ka duj rFkk vkVkdke.M e jkT; ou fofHkxk e ik/k'kkyk i;kx fd, x,A p;fur 'kkyk itkfr d vdjk dk fofHkUu 'kkyk enkvk l iFkDdr fofHkUu to&Vhd d lFk Vhd ddr fd;k x;ka v/; ;uk u idV fd;k fd ykHkdkjh l {e thok %to mojd% l Vhd ddr vdjk dk vdj LokLF; rFkk of) ijehVj xj Vhd ddr vdjk %fu;f=r% dh vi{kk vPNk Fkka

uhyfxj d ukMokVe] xyuekjxu] dfj;kekM] dkMkukM rFkk dkVfxj d {k=k l nl 'kkyk itkfr;k t l % fedfgfy;k uhykfxjd] efi;k QkbVMk] focjue ,jc l l l QkVkf; k ukVkf; kuk] ekb dghfy;k pEikdk] ccfl fVdVkfj;k] l kbt hft;e D;feuh] l kbt hft;e vkukfV,uej Mkb l k,D l hyku- ekykcfjde rFkk fliykdk l dkfpufluuf l l d Qy ,df=r fd, x,A cht fu"d" k.k rFkk i l Ldj.k i)fr dk ekudhr fd;k x;ka vdj.k v/; ;u fd;k x;k rFkk vdj vkt ijehVj vdfjr vdjk e vfHkfyf[kr dj iR;kjfir fd, x,A ijehVj t l 100 QyHk] Qy ueh rRo] 100 cht Hk] vdj.k ifr'kr] ijg yEckb] dkyj 0;k l rFkk vdj vkt vfHkfyf[kr fd;k x;ka iR;kjfir vdjk dk l {e tho Vhd ddr d iHkko d v/; ;u d v/khu fd;k x;ka of) iKR l kgd l {e thok.kvk l Vhd ddr cht k d vdj.k ij v/; ;u ixfr ij gA



v lkyk HkV'Vh ou; tho vH;kj.k] ubi fnYyh d:
ic/ku ; ktuk dh r;kjh

jf{kr {k= dh ic/ku ; ktuk dh r;kjh d
fy, MCY; vkb vkb d fn'kk fun'kk d vulkj
okfNr dk; fd, x,A iutuu fLFkfr] NkM g,
[kuu xM<k dk vkdyu rFkk enk ueukdj.k rFkk
ueuk dk fo'y" k.k ou vulU/kku lLFkku] ngjknu
}kjk fd;k x;kA ueuk Hk[k.M cuk, x, rFkk lph d
vkdyu d fy, voykdu ,df=r fd, x,A {k= dk
lhek uD'kk cuku d fy, rFkk ou ?kurk dh efix]
ou vkPNknu] ou Vkbi] nj lonu rFkk th vkb , l
rduhdk dk vkb vkb vkj , l d ou rFkk
ikfjflLFkfrdh foHkx dh lfØ; lghkxfxrk d l kFk
vxhrr fd;k x;kA bl mnn'; d fy, LFky
voykdu fd;k x;A

2-1-4 t'o l/kkj

Hkkjh /kkr/vk dk t'o&,D;ey'ku dk v/;;u
rFkk fofHkUu i tkfr;k ij bldi iHkko

i;kx d fy, fofHkUu ikni i tkfr;k dk
ck;k x;k rFkk rhu eghu rd irh{kk dh xb t'c rd
vdjk dh LFkkiuk d fy, mipkj fn;k x;kA
i tkfr;k dk ikdfrd volFkxvk e ou vulU/kku
lLFkku] ngjknu dh dnh; ik/k'kkyk e j[kk x;kA
dy N% i tkfr;k y t jLVkfe;k i tkfr]
gkyk iVfy;k bVjxhQkfy;k] ,yLVkfu;k
Ldkykfj l] xohfy;k jkLVk] MYcft;k f l l rFkk
Vehufy;k vtuk ½ dk jkt ikuh fn;k x;k ¼, d o"k
rd% A rhu ekg lk'pkr] ikni i tkfr;k Hkkjh /kkrvk
dh fofHkUu ek=kvk d l kFk mipkfjr gku d fy,
r;kj gk xba Hkkjh /kkrvk dh fofHkUu ek=k fofHkUu
vrjkyk d lk'pkr ik/k'kkyk Lrj ij ikni enkvk ij
i;kx dh tk,xhA pkj fofHkUu lknrvk 10mg@1]
120fe-xk mg@1] 30 mg@1 rFkk 40 mg@1 d l kFk
Hkkjh /kkr mipkj vkt rd fofHkUu vrjkyk d
lk'pkr ikni enk e mi;kx fd, x,A

vkj kfxd vif'k"V ty d t'o mipkj d fy,
dod dk mi;kx

fofHkUu dodk dh of) rFkk tol/kkj
{kerk dk ijh{k.k dju d fy, fuEu of.kr
fofHkUu dodk d l kFk i;kx fofHkUu m|kxk e

fd, x, % [yokMku [yo l] vkD l h i k j l j o h M l]
LdkbtkQkbye dE;uh] VehVkl olhdkyj]
Vh-flxykVr rFkk ikbDukikj l luxbulA

rhu dod t l LdkbtkQkbye dE;u]
,Lijfxy l ukbxj rFkk e:fy;e fVekyk l l u
yXnh rFkk dkxt iokg e of) fn[kkbA dod dh
doy nk i tkfr;k t l , l i j f x y l u k b x j r F k k
V e V h l o l h d k y j u p e M d i o k g e o f) f n [k k b
r F k k i o k g l j x H k h g V k f n ; k A

iHkkoh dBkj vif'k"V ic/ku d fy, E;uh lhiy
Mfix LFkyk l xhu gkÅ l x l k d i m R l t i u d k
de dju d fy, {kerkvk dk eY;kdu

lHkh pkj Mfix LFkyk d fy, ikfHkd
vkdMk ,d=hdj.k fd;k x;k ftle E;uh lhiy
dBkj vif'k"V iutuu nj] vif'k"V dh iR;d J.kh
¼?kj dk vif'k"V ;kM@ckxku dk vif'k"V]
0;kikfjd@cktkj vif'k"V½ dk tkuu d fy,
vif'k"V dk ekuoh; iFkDdj.k] E;uh lhiy dBkj
vif'k"V dh ifr'krrk tk fd dBkj vif'k"V Mfix
LFkyk ¼, l MCY; Mh , l ½ ij tkrh g l f e f y r F k h A
Mfix LFky fLFkfr d lnhk e lHkh lcf/kr
vf/kdkfj;k l f}rh; Lrj dk vkdMk Ø; fd;k
x;kA Mh vk l h dh ifr'krrk e ekleh; fofHkUurk
rFkk E;uh lhiy dBkj vif'k"V dh idfr dk tkuu
d fy, lHkh pkj p;fur E;uh lhiy Mfix LFkyk
uuj[kMk ¼ngjknu½ fodkluxj] Mkbokyk rFkk
_f'kd'k d xeh] o"kk rFkk lnh d ekle d fy, u"V
gku ;kx; vkxfud dku dh x.kuk dh xba lHkh
Mfix LFkyk l ehFku mRl tu dk vkdyu vfre
pj.k e ga

2-1-5 ikfjflFkfrdh ,o lk;koj.k

mYkjk[k.M d dN xkok d l f e tyok;
dk;kdYi e Viy ouk dh Hkfedk

uxno Viy ou {k= d l f e tyok;
dk;kdYi e Viy ouk dh Hkfedk dk n[ku d fy,
Viy ou dh ,d fu;f=r LFky l ryuk dh xb tk
fd uxno Viy {k= d utnhd Fkh tk fd vi{kkdr
vf/kd fo{kC/k ou FkA o{kk} >kfM;k rFkk cfV;k d
fy, ekud uflVM i)fr dk vulj.k djr g, nuk

ikfjr= l j {k.k , o icu/ku



LFkyk dh ouLifr dk v/;;u fd;k x;kA nkuk ij lkekU; o{k} >kfM;k rFkk tMh&cfV;k d lHkh QkbV&lkekftd ijkehVjk u nkuk LFkyk e bu ijkehVjk e vrj fn[kk;kA nkuk v/;;u LFkyk dh lrg enk dk mud ifrdfr ueuk d Hkkfrd jklk;fud fo'k'krkvk d fy, fo'yf'kr fd;k x;k rFkk ryuk dh xBA enk ueuk d vklr eY;k u mud fofHkUu x.kk d nkuk LFkyk e mudh jtk e Li"V fofHkUurk, fn[kkbA

nkuk v/;;u LFkyk l ekleh; ijkehVj ;Fkk&vf/kdre fuEure rkieku] ok; ox] o"kk] l; d pedu d ?k.V bR;kfn ,df=r fd, x,] ekfld rFkk okf'kd eY;k d fy, ldyu fd;k x;k rFkk ryuk dh xBA fuR; tyok;oh; pj oLrvk u dN ijkehVjk e egRoi.k vrj fn[kk;kA nkuk LFkyk d lHkh l[e tyok;oh; ijkehVjk d fuR; voykduk dh jt e mYy[kuh; fofHkUurk, gA ukxno {k= e mifLFkr ikni itkfr;k dh lph ¼v/;;u LFkyk l ckgj] DokMjV v/;;uk e doj ugh½ x<oky ou fofHkx dh ikni itkfr;k dh lph d lFk nh xb gA

nu ?kkVh d ikdfrd rFkk ekuo tfur ouk e ouLifrd fofo/krk ij 'kgjhdj.k d ikfjLFkrd iHkko

'kgjh@xkeh.k vkoklk l c<rh njh d vulkj ou&ikfjr= e o{k fofo/krk e c<r] >kj&>[kkM toitt lcf/kr ueh rFkk >kj&>[kkM itkfr fofHkUurk rFkk rkieku e deh n[kh xBA

ou ikfjr=k d fudV fLFkr vkoklk u pkj rFkk b/ku ,d= dju d dkj.k ou l l k/kuk ij fuHkjr fn[kkbA

x<oky fgeky; dh e/; igkfM;k e jkMkMUMku vkckfj;e rFkk ekbfjdk ,ldyKUVk d iutuu rFkk tul[;k <kp ij ekuo ifjr fo?uk dk iHkko

jkMkMUMku e i"i.k] Qyu rFkk cht ifjiDork dk vuJo.k fd;k x;kA [krk e vkj- vkckfj;e rFkk ,e- ,ldyKUVk d cht vdj.k rFkk vdk dh LFkkiuk d vuJo.k d fy, LFkkb

Hk[k.M fpujgr fd, x,A vkj- vkckfj;e d cht ,df=r fd, x, rFkk i;kx'kkyk e 0;ogk;rk ijh{k.k d fy, ijhf{kr fd, x,A vkj- vkckfj;e e i"i.k dk pØh; 0;ogkj voykfr fd;k x;kA [ky N= dh cn N= d lFk ryuk d v/khu vkj- vkckfj;e rFkk ,e- ,ldyKUVk dh vdk LFkkiuk mPp vfHkfyf[kr dh xBA

x<oky fgeky;] mYjk[k.M dh dN o{k iitkfr;k d fy, toitt foLrkj ?kVd ¼ch bi, Q½ dk fodkl

'kkfj;k jkLVk ¼lky½ rFkk ikbul jkDlc?kkb ¼phM ikbu½ ouk d p;u d fy, LFky lo{k.k fd;k x;kA ifj;k tuk dfe;k dh Hkrh rFkk midj.kk dh [kjh dh xBA Fkkuk] yPNhokyk] freyh] Njck rFkk ujnuxj d 'kkfj;k jkLVk ¼lky½ ouk dk lo{k.k fd;k x;k rFkk LFkyk l ikjfhkd LFky vkdM ,df=r fd, x,A phM ouk d fy, vye l] R;uh] ijkyk] ekjh dk lo{k.k fd;k x;kA bu lHkh LFkyk ij fofHkUu vkdkj d ueuk [k.M cuk, x,A ueuk Hk[k.Mk@LFkyk e lHkh o{k dk Åpkb ekiu fd;k x;kA fofHkUu LFkyk ij nkuk itkfr;k dk 0;k l J.khdj.k fd;k x;kA iR;d ueuk Hk[k.M e ikru d fy, fofHkUu 0;k l Jf.k;k l vklr o{k dk p;u fd;k x;k rFkk nkuk itkfr;k d dN o{k dk ikru fd;k x;kA mudk toitt vkdyu ixfr ij gA

nu ?kkVh ¼mYjk[k.M½ d ueh ;Dr Hkfe ou ikfjr= dk ikfjLFkrd v/;;u

vklu cjk t

vkjfhkd v/;;uk u idV fd;k fd 27 ifjokj l lc/k j[ku okyh 57 ikni itkfr;k v/;;u {k= e vfHkfyf[kr dh xb gA bue l 10 o{k itkfr;k] 21 >kMh itkfr;k rFkk 26 tMh cVh itkfr;k vfHkfyf[kr dh xb gA

f>yfey {k=

ikjfhkd v/;;uk u idV fd;k fd 30 ifjokj l lc/k j[ku okyh 76 ikni itkfr;k v/;;u {k= e vfHkfyf[kr dh xBA bue l 20 o{k itkfr;k] 26 >kMh itkfr;k rFkk 30 tMh cVh itkfr;k vfHkfyf[kr dh xbA



ic/ku i.kkfy; k d i fooj.k l fgr Hk&ouLifr
fofo/krk rFkk enk x.kk ij ou jki.kk dk
iHkko

v/; ;u **Hk&ouLifr fofo/krk rFkk enk x.kk
ij jki.kk dk iHkko** to fofo/krk xfrdh ij dn.k
djrkg t l k ou jki.kk ij yxgkrk g t c rd fd
jki.k viu vki dk cM ieku ij i; kxkRed [kk tk
d fy, m/kkj nA Hk&ouLifr fofo/krk] enk x.kk]
enk l{e thok rFkk enk thok d v/; ;u d fy,
VDVuk xFUMl; ;dfyVl xFUMl rFkk ,df'k; k
fe; ju l h jki.kk dk p; fur fd; k x; kA Vh- xFUMl
d jki.k uhykEcj ¼dgy½ l knhok; y ¼rfeyukM½ e
p; fur fd, x,] ;dfyVl xFUMl rFkk ,df'k; k
fe; ju l h jki.kk dk uhyxfj ¼rfeyukM½ rFkk eUukj
¼dgy½ e p; fur fd; k x; kA DokMjV cukdj
fofHkUu jki.kk e fofHkUu vk; ox d l xku jki.kk e
Hk&ouLifr d ek=kRed vkdyu d fy, ikni
itkfr; k dk p; fur jki.kk e ; k mud vklkl
yxk; k x; kA itkfr; k tk LFky e vfHkKkr ugh
dh tk l dh d fy, ikniy; ueu ,df=r
fd, x, A

enk x.kk rFkk l{e ouLifr d v/; ;u d
fy, mi; Dr lHkh jki.kk l enk ueu ,df=r fd,
x, A uhykEcj rFkk l knhok; y jki.kk l ,df=r enk
ueu enk l{e ouLifr ¼oh , , e rFkk thok.kk d
fy, fo'yf'kr fd, x, A l knhok; y l ,df=r enk
ueu enk x.kk d fy, fo'yf'kr fd, x, A

Fkhykokx ukykg l fgr vkjffkr ouk e ouLifr
rFkk tho tr e ifjoriuk dk vuJo.k

Fkhykokx ukykg e lo{k.k fd; k x; k rFkk
iR; d frekgh e ouLifr rFkk tho trvk ij vkDM
, df=r fd, x, A ckV x, ijku Fkhykokx ukykg e
ikxfe; k fiUukV lcl i/kku itkfr; k ikb xb
tcd ekfjMk fVdVkfj; k ckV x, u, Fkhykokx
ukykg e lcl i/kku itkfr; k ikb xBA lkguku
ohuj o{k itkfr; k fofo/krk rkfydk u, rFkk ijku
ukykg e Øe'k H=1.293 rFkk H=2.55 d l kFk
; Fkfp : l e vPNh ikb xBA

vk/k in'k d iohi ?kkV k e QkbV k&fofo/krk
rFkk enk ?kVd k ij ikM [krh d iHkko ij
v/; ;u

pkj DokMjV cuk, x, t l rhu Jhdkye]
Hknkpye rFkk dkdhukMk ou fohkxk d ikM [krh
{k=k e rFkk ,d fu; f=r Hk[k.M e cuk; k x; kA nk
eklek d nkjku itkfr; k dh mifLFkr ij vkDM
ukV fd, x, rFkk Hkfrd&jkl; fud fo'y" k.k d
fy, enk ueu ,df=r fd, x, A ou vulU/kku dn
rFkk vx:] jktn uxj] gnjkcn e enk ueu
fo'yf'kr fd, x, A

edV] if'peh ?kkVh e vuiifkr o"kk ou
Nrfj; k d i ch t dhV k } kjk ch t i; k Øe.k

,d gDV; j ueuk Hk[k.M cuk, x, rFkk
vuiifkr Nrfj; k ij itkfr&ipjrk vkDMk ij
dke fd; kA ,d gDV; j ueuk Hk[k.M e vojku
tky yxk, x, A dhV mnxe rFkk ch t f'kdj dh
lhek vfHkyf[kr dh xBA LFky rFkk i; kx'kkyk
vdj.k v/; ;u fd, x, A egROI.k Åijh N=
itkfr; k dk ch t vdj.k v/; ;u ijk dj fy; k x; k
gA lEi.k : l k l vR; kf/kd : l k l O; ogk; ch t
f'kdj nj itkfr; k d chp [kk th xBA dN cgr
T; knk detkj rFkk dN yxHkx vioftrA dhV
tMh cfV; k e mPp i/kkurk rFkk fuEu fofo/krk
[kk th xBA fMfVfj; k dki l bFMd l dh rjg dN
jkpd iVu tkg f'kdj iVu e fopkj.kh; xrh;
fofHkUurk [kk th xBA Mkb l k t kbye ekykcfj de d
ch tk ij VigjhVM eD[kh } kjk l Øe.k iVu o{k]
ch t fMLij l j rFkk ch t f'kdj dh d chp tfVy
l gHkfxrvk dk idV djrk gA

cukokijk ifj; k tuk iHkx] jk; ij] NŸkh l x<
e fofHkUu vk; ox d l xku jki.kk e
ouLifrd fofo/krk ij [kk t

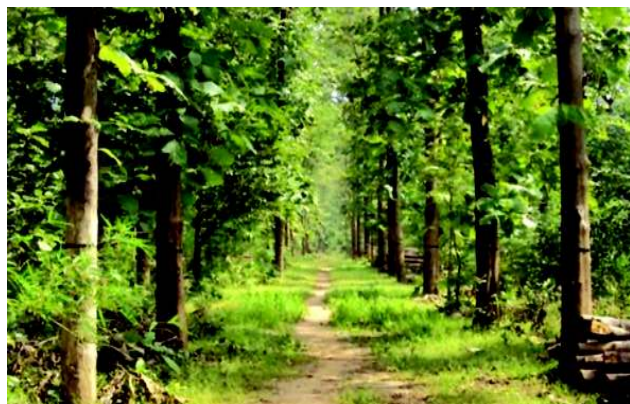
?kk l rFkk vU; /ki pkgu okyh itkfr; k dk
Nk; k ndj] vMjLVkjH l{e tyok; dk cnyr g,]
enk x.kk dk l/kjr g, rFkk ouLifrd <kpxr
tfVyrk dk c<kr g, jki.k vMjLVkjH iutuu dk



ikR lKfgr djr gA fofHkUu vk; oky jki.kk e ikni
fofo/krk d cnyko dk bu lKxku jki.kk e enk x.kk
e ifjoru rFkk mu iR;d lKxku jki.kk e ikni
itkfr;k rFkk lKxku d ikdfrd ou e ikni
itkfr;k d chp lekurkvk dk fu/kkj.k dju dh
nf"V l ifj;k tuk ikjHk dh xb FkhA



ou dfe;k d lKk ny dke djr g,



lKxku jki.k

LFkyk d p;u rFkk uD'kk bR;kfn d
,d=hdj.k d fy, cukokikjk ifj;k tuk dk
ikjfhkd lo{k.k ijk fd;k x;k rFkk LFky fooj.k
vfHkyf[kr fd;k x;kA fofHkUu vk; ox d lKxku
jki.k d 12 dEikVeV e DokMjV cuk, x,A lKxku
d 21]26]30]36 o"kh; jki.k e ouLifr dh x.kuk dh
xbA NRrh l o{k] 6 >kfM;k rFkk 13 tMh&cfV;k
lKxku d vfrfjDr vfHkyf[kr dh xbA ck lB enk
ueu ,df=r fd, x, rFkk enk ueuk dk fo'y"kk.k
ixfr ij gA

if'peh ?kkVka ¼egkj"V½ u; Hk&ouLifr rFkk
l{e tyok; ij ou N= vkPNknu dk iHkko

QkbV&fofo/krk d fy, ou N= vkPNknu
rFkk vMjLVkjH ouLifr d chp lghkfxrkvk dk
v/; ;u fd;k x;k rFkk n'kh rFkk fon'kh itkfr;k
lfrg cnyr g, N= <kp rFkk ?kurk dk Hk&ouLifr
d iutuu rFkk of) ij iHkko] bMfQd rFkk l{e
tyok;oh; ijkehVj voykfd fd, x,A egkj"V
d if'peh ?kkVka d jk;x<] jRukxfj rFkk fl/knx
fity e ¼iR;d fty e ikp½ 15 v/; ;u LFky
p;fur fd, x,A N= ?kurk e ifjoru d lKk]
Hk&ouLifr e ifjoru] enk x.kk rFkk l{e
tyok;oh; ijkehVj t l½ rkieku rFkk ueh
voykfd dh xbA N= ?kurk e deh d lKk
Hk&ouLifr e itkfr;k dh l[;k c<hA vkxfud
lkexh] [kjirokj fxjko rFkk vi?kVu] ueh l j{k.k]
jk'kuh ?kurk] rkieku rFkk ueh e ifjoru d dkj.k
tk fd ?kVrh c<rh N= ?kurk d dkj.k Fkk] enk
ijkehVj e ifjoru voykfd fd;k x;kA p;fur
LFkyk e itkfr;k dk ikdfrd iutuu dk Hkh
v/; ;u fd;k x;kA

egRoi.k o{k itkfr;k d vdijs dh of) ij
o l hdyj vkcl dyj ekbØkjbt k ¼oh, ,e½ d
j{kRed iHkko d lKk Liit vk; ju dkj[kku
mRlftir lkexh ¼, l vkb], Qih, e½ d
gkfudkj d iHkko dk ifrHkkfjr djuk

egRoi.k o{k itkfr;k d vdijs dh of) ij
o l hdyj vkcl dyj ekbØkjbt k ¼oh, ,e½ d
j{kRed iHkko dk vkdyu dju d fy, ifj;k tuk
ikjHk dh xbA v/; ;u d fy, p;fur LFky ?k?k l
¼egkj"V½ jk;x<] jk; ij ¼NŸkh l x<½ rFkk Hkkiky
¼e/; in'k½ d vk l kfxd {k= gA e/; in'k]
NŸkh l x< rFkk egkj"V e vl[; Lit ykgk
QDVfj;k LFkkfir dh xb tk fd SO₂, NO, NO₂,
N₂O₅ d : lk e rFkk lLiFMM lkvdyVj e vl d : lk
e in"kd dk ckgj fudkyrh gA , l ih, e lk; koj.k
dk ouLifr ij , d cMk ud l ku nrk g t l iŸkk e



LVkekV_k dh Dykftx rF_{kk} Ik;koj.k e fofHkUu V_kfDlu dk fol tuA bu QDVfj;k d vklikl o{kk dh v_klr of) fodr rF_{kk} vo:) ikb xBA

nl o{_k itkfr;k d N_{||} eghu ijku 1200 ikni oreku e bl ifj;ktuk d v/;;u d v/khu g t l VDVkuk x_fUMI] eykbuk vkckfj;k] MUMkdykeI fLVDVI] MYcft;k f l l l] ikxfe;k fiUukV_k] df l;k Ik;fe;k] , t f M j D V_k b f M d k] , Ecyhd_k vkQh l hufy l] iYV_kQ_kje fQ: tkbfu;e rF_{kk} C;fV;k ekukLie_k fu;f=r v_kdM d l k Fk , d vkykpukRed ryuk e de inf"kr {k=k l , df=r fd;k x;kA iY_{kk} rF_{kk} enk ueuk dk to jklk;fud vkdyuk d l n Hk e Hkkfrd jklk;fud vkdyu ixfr ij gA

m".kdfVc/kh; ou vulU/kku lLFkku dh ik/k'kkyk e nk lV_k d l k Fk i;kx fd, x,A enk + FYM $\frac{1}{2}$ fu;f=r $\frac{1}{2}$ rF_{kk} enk+ FYM+SPM $\frac{1}{2}$ i;kxRed%_A Lit ykgk QfDV;k d in"n.k l iHkkfor vk|kfxd {k=k l , df=r enk dk , l ih , e l mipkfjr fd;k x;kA ;g , d ekMy i;kx g tk fd in"n.k volF_{kk} dh udy djxk rF_{kk} ft l dk fo'y"n.k of) v_kdM d l k Fk ud l ku dk ifjeki rF_{kk} in"n.k iHkkok l ikni fdruk j{kkRed g ;g crk,xkA

ik"kd tM_k d vklikl dh enk rF_{kk} ik"kd tM oh , , e dYpj d fy, fofHkUu o{kk itkfr;k l , df=r dh xBA ; enk rF_{kk} tM ueu oh , , e dYpj d fy, eDdh d ch tk d l k Fk fofHkUu ik=k e j[k x,A oh , e dYpj d fy, ik= d feJ.k dk vuojrk d fy, nk ckj vkV_kDy fd;k x;k $\frac{1}{2}$ enk + jr + FYM $\frac{1}{2}$ rF_{kk} m l d l k'pkr [kr e feVVh d ik=k $\frac{1}{10}$ fd-xk- {kerk $\frac{1}{2}$ e gLrkrfjr dj fn;kA rc iHkkfor LFkyk l , df=r enk rF_{kk} tM ueuk dk bl ik= feJ.k d l k Fk 1:20 d vui_kr e feyk fn;k x;k rF_{kk} bld rjr i'pkr 15 eDdh d ch t $\frac{1}{4}$ t h- et $\frac{1}{2}$ 2-5 bp dh xgjk b e ck fn, x,A fd l h Hkh idkj d vU; l l k/kuk l fd l h Hkh idkj d

ikfjr= l j {k.k , o i c U / ku

oh , e n"n.k dk jkdu d fy, eDdh iknik dk jkxk.kghu ty l l h p k x;kA ekbØkj b t k rhu eghuk e vPN_k mx x;k rF_{kk} bld l k'pkr okfNr oh , , e dk dV_k x;kA

Åpkb dk vkjfhkd of) v_kdM_k $\frac{1}{4}$ l -eh- $\frac{1}{2}$] iY_{kk} dh l [;k rF_{kk} 'kk[kk_vk dh l [;k l Hkh 1200 iknik dk dkyj ?kj k $\frac{1}{4}$ Hk Lrj l 1-5 bp Åij $\frac{1}{2}$ fn l Ecj 2010 l tuo_jh 2011 d nkjku vfHkfyf[kr fd;k x;kA N_{||} l k iknik e l l i f M M iVhdyV eVj $\frac{1}{4}$, l ih , e $\frac{1}{2}$ feyk;k x;k t c f d 300 dk fu;f=r d : l k e i k f "kr fd;k tk,xk rF_{kk} 300 vkj g ftue doy oh , , e feyk;k tk,xkA oh , , Ek dk i;kxRed iknik dh , d fof'k"V l [;k $\frac{1}{4}$ 400 $\frac{1}{2}$ d i k f V x eh f M ;k d l k Fk feyk;k tk,xkA

Σ Jf.k;k rF_{kk} pj oLr,

i. fu;f=r $\frac{1}{2}$ enk + FYM $\frac{1}{2}$ 300 ikni $\frac{1}{4}$ & vk/kkj j[kk v_kdM_k $\frac{1}{2}$

ii. enk + FYM+SPM 300 ikni $\frac{1}{4}$ v/kkxfr , tV ▼ $\frac{1}{2}$

iii. enk + FYM+VAM 300 ikni $\frac{1}{4}$ c<ku okyk , tV ▲ $\frac{1}{2}$

iv. enk + FYM+SPM $\frac{1}{4}$ in"nd ▼ $\frac{1}{2}$ +VAM $\frac{1}{4}$ c<ku okyk ▲ $\frac{1}{2}$ 300 ikni $\frac{1}{4}$ ifj.kke v_kdM $\frac{1}{2}$



oh,-,e- dYpj



mipkfjr iknfidk,

vle d; p;fur cirk d; Ij{k.k} ic/ku rFkk mi; kx

fxCcu MCY; ,y ,l] dkt h; xk jk"Vh; ikd] fMc: lkb[kkok tikj vkj ,Q] f'kykx e lo{k.k fd, x,A cr mRiknd {k=k l enk ueu ,df=r fd, x,A fQukyk th rFkk of) ijke hVjk ij v/; ;u fd, x,A

ukeckj fjto: ou ei vk"k/kh; iknik d; ikfjflFkfrd vkdyu rFkk lhek r xkeh.kk; ij mudk lkekftd vkfFkd iHkko

fo?kfur rFkk fufo?kfur ouk e vk"k/kh; iknik dh fLFkr dk igpku d fy, xkyk?kkV rFkk dkjch ,xykx fty d v/khu ukeckj fjto ou e QkbV&lkekftd v/; ;u fd; k x; kA ; knfPNdrk l v/; ;u dju d fy, ,d gDV; j d dy 12 Hk[k.M p;fur fd, x,A ,d lk c; kyh l ikni itkfr; k dk ikfjflFkfrd vkdMk ,df=r fd; k x; k ftle l ,FkukckVfud d l v/; ;u ij vk/kkfjr 85 iknik dk vk"k/kh; mi; kx rFkk mi; kfxrk dh igpku dh xBA ;g Hkh voykfd fd; k x; k fd itkfr; k tl Økvku tkYk] LemyDI tykfudk] jgl tikfudk] xk l hf; k tUFkk l kbel vkj f{kr Hkh [krj e gA 131 ?kj k dk lhek r xkok e lkekftd&vkfFkd lo{k.k fd; k x; k rkfd i'ukoyh d }kj k mud vklikl d txyk e vk"k/kh; iknik ij lpuk ,df=r dh tk l dA bu ykxk d Kku dk vk"k/kh;

iknik dh Ij{k.k ij dfnr dju ij cy fn; k x; kA vk"k/kh; mi; kx d vrfjDr fofHkUu igyv k] e iknik d LFkkuh; mi; kx ij fofHkUu dch yk l lpuk ,df=r dh xBA cktkj lo{k.k Hkh fd; k x; k rFkk dk; ykekVh] cdk tku] flykuhtku] ckjirgkj rFkk ruxuh d lhek r {k=k e fLFkr ikp LFkkuh; cktkj e nj] miyC/krk rFkk vk"k/kh; iknik d lkr l lcf/kr 57 vk"k/kh; iknik dh lpuk ,df=r dh xBA

MkYek oU; tho vH; kj.k ei p; fur iitkfr; k ei vk/kkj&jj[kk vkdMk l ftr dju; di fy, okuLifrd <kp; dh ikfjflFkfrd xfrdh rFkk vkdkjd; vudyuh; fofHkUurk dk v/; ;u

$\sum$ pkj jtk dk doj djr g, vH; kj.k e 16 ueuk Hk[k.M cuk, x,A

$\sum$ ueuk Hk[k.Mk dk vxrj vrjky xfrdh d eY; kdu d fy, v/k&LFkbb :lk e fpUgr fd; k x; kA itkfr l; ktu iVu fo'yf"kr fd; k x; kA vc rd 66 ikni itkfr; k igpkuh xb rFkk iekf.kr dh xBA

,fDoyfj; k eyflfU l l ykEd dh iituuh; tfodh iHkkoh Ij{k.k di fy, vkykpukRed :lk l l dVxLr rFkk 0; kikfjd :lk l egRoil.k iitkfr; k

lkyuk %u; k xko ftyk&vle%] fxcyku MCY; ,y ,l %vle%] vkj ,Q vkj vkb ckxku %tkjgkV% vexjh %ftyk f'kolxj] vle%] Mhekijj U; fclib %ukxky.M% ukxikg] nk: fxjh %ioh xk: igkMh% e?kky; e LFky lo{k.k fd, x,A ijx.k ikfjflFkfrdh ,Eo; kyk th] ijx.k tfodh rFkk ikni iitu ixfr ij gA

Hkixkfyd forj.k dh efi x rFkk ek=kRed vkdyu rFkk io h. fgeky; u {k= %Åijh vle ;fuV% di ikni l l k/kuk; dh tul; ; k fLFkr

%vle] tkjgkV] fMc: x<] xkyk?kkV] y[kheij rFkk lhck l xj ftyk e 6-5 fd-eh- x 6-5 fd-eh- vkdkj d% fofHkUu lEifyx fxMk l lcf/kr 131 cYV VklDVl dk lo{k.k rFkk lifyx ij dh



xbA ikni ueuk dk l xg.k ¼ ikni ky; dh r; kjh d
fy, ½ iR; d cYV VklDVl e rFkk mld vkl ikl
miyC/k l Hkh iknik dh QVxkQh dj yh xBA ?kjk]
Åpkb rFkk fQukykt h l lcf/kr lpuk fn, x,
ik:lk vulkj ,df=r dh xBA l Hkh VklDV cYV
dh th ih , l ykd'ku dk vkjfhkd fcn] e/; fcn
rFkk vfre fcn ukV fd; k x; kA ueukdr {k=k d
o[k] >kfM; k rFkk tMh cfV; k l lcf/kr lpuk
iyf[kr dh xBA lgh i) fr dk vulj.k djr g,
309 ueuk dk ikni ky; r; kj fd; k x; kA rnul kj
th vkb , l vkdMk vk/kkj dk mUu; u fd; k x; kA

2-1-6 t'ofof/krk

mYkjk[k.M d ijt hoh dyh l hMkfM; k
¼gkbeuklVj k½ dh t'ofof/krk dk v/; ; u

ijthoh dyh l hMkfM; k d l xg.k d fy,
mYkjk[k.M d vB jkT; k ¼ngjkn u] gfj}kj] fVgj h]
ikMh] uuhry] mYkjd k'kh] : ni; kx rFkk pekyh½ e
lo{k.k fd; k x; kA Lohi uV rFkk ihy iu tkyk dh
lgk; rk l l xg.k fd; k x; kA dhV d l dMk ueu
,df=r fd, x, A LVhfj; k te ekbØkLdki d v/khu
i; kx'kkyk e dyh l hMkfM; k iFkDdr fd, x, A
vxrj ,df=r ueuk dk iFkDdj.k 18 dfYlM
ifjokj e dj fn; k x; kA tkfr Lrj dj
,ul k; jfVM ijthoh dh igpku dh xBA ikjfhkd
voykduk l ; g ik; k x; k fd ifjokj b; ykQMk
lcl ifji.k g rFkk itkfr; k l Hkjij ifjokj
bu l kbfM; k d lk'pkr] ekbefjM; k] ; iyeMk]
iVhfj; k e fyMk] , ighy h u h fM; k rFkk
VkbdkxkefVfM; k FkhA fofHku cfLr; k l bu
ijthfo; k d l dMk etcku ,df=r fd, x, rFkk
i; kx'kkyk e ikf'kr fd, x, A fudky x, ijthfo; k
dk ,Ydkgy@tM g, dM e ifjff[kr fd; k x; kA
db ub itkfr; k vfHkyf[kr dh xb rFkk mudh
fdLe ij dk; ixfr ij gA VukLVhefVMk ifjokj dh
,d ub itkfr lkbuh iul kjVI bMhd l dk o.ku
fd; k x; kA Hkkjr l igyh ckj lkbuh iul kjVI
itkfr dk vfHkyf[kr fd; k x; kA

ikfy; jk l h j l fyVkjfy l g; kr rFkk dk teh
¼,ul k; jfVMk½ dk nu ?kkVh] mYkjk[k.M l ; jh cpl
VkeuVkl k ¼QyxkfjMk½ d vM ij ijthforrk djr k
ik; k x; k tk fd itkfr; k d fy, ,d u; k etcku
fjdkM fd; k x; kA igy ; g itkfr; k do y
eknkvk d fy, tkuh tkrh FkhA vr½ bld ujk
dk Hkh o.ku fd; k x; kA ; Vhpk l keyk bfmMk
¼dy l hMkvbfM; k½ , ighfyuhMk½ ,d ub itkfr dk
Hkh o.ku fd; k x; kA idkiVhju yUVhfxuk l e
¼geh l Vj k½ l kbfyMk½ ij ijthfork djr h
Q l kbykQkx l dh nk ub itkfr; k xk: xk fiUukV
ij iYkk xky cukrh g, Hkh of.kr dh xBA

mYkjk[k.M rFkk gfj; k.kk d l c& ifjokj
ekbØkxLVhuk l lcf/kr ijthfo; k ij ofx: dh
v/; ; u

mUkjk[k.M l ekbØkxLVhuk ijklVokbM
dk lo{k.k rFkk ,d=h dj.k fd; k x; k ¼nu ?kkVh]
jktkt h jk"Vh; ikd] ekgM rFkk vk'kkjkj h ou]
euh dh jr h _f'kd'k ou foHkx] cMdkV] freyh]
dkyl h] ykxk] dMok ikuh] >k>jk] ikMokyk]
yPNhokyk ou] jk; oky] fpfM; k ij&gfj}kj ou foHkx]
o-v-l- ifj l j] Åij h fgeky; ¼fVgj h] ckn'kkgh Fkky]
pEck] dnn[kky rFkk /kukYVh½ gYnoku h ¼jkeuxj]
dnn[kky rFkk /kukYVh½ rFkk gfj; k.kk ¼f iTkkj
ik/k'kkyk] fpdudk Bh] ukYV rFkk tkyku ou j t]
vEcky k ou iHkx] dky'oj phpkjkyh& euk uxj
ou foHkx: ¼A jk"Vh; ou dhV l xg e miyC/k l kexh
d l kFk {k= ,df=r ekbØkxLVhuk ijthfo; k dh
ryuk dh xb rFkk itkfr Lrj rd igpku dh xBA

jk"Vh; ou dhV l xg ¼, u , Q vkb l h½ d
ekbØkxLVhuk ijthfo; k dk v l ruhdj.k fd; k
x; kA jk"Vh; ou dhV l xgky; d ekbØkxLVhuk
8 o'kk rFkk 4 dchyk e 44 itkfr; k l fEefyr djr k
gA ; pkj dchy g½ , iUVyhuh] dkVh l huh]
ekbØkx l Vhuh rFkk ekbØklyhVhuh o'k okj itkfr; k
dh l [; k g½ , iUVyh l e 19 itkfr; k
MkyhpkxfufM; k e pkj itkfr; k] dkVf l; k e
8 itkfr; k] MkvyxLVj e ,d itkfr]



ik,iUVhyh; e 3 itkfr;k] iVkekbØklyhfVl e
1 itkfr] ekbØkxLVj e 3 itkfr;k] ekbØklyhfVl
e 5 itkfr;kA i;kx'kkyk e iky x, ekbØkxLVhuk
ijthoh d ck°; vdkjd dh rFkk ofxdh jDVjk ij
v/;;u fd;k x;kA ,iUVhyh/ xyfj;k
foyfdulu] ,iUVhyf/ lyVhyk] dnteko]
ekbØklyhfVl ehMh,Vj ¼gkyhM½] dkVhf/;k ,yhV
¼ohjd½ rFkk dkVhf/;k dkbchyh ¼jkyb½A
ekbØkxLVhuk ijthoh dh lHkh of.kr itkfr;k d
Vhd r;kj fd, x, gftUg Åijh fgeky;] nu ?kkVh
rFkk gfj;k.kk l ,df=r fd;k x;k FkkA

mYjk[k.M d lcf&ifjokj ckd kuhuk
¼gkbeukIVhj½ cldkfumk½ l lcf/kr ijthoh ij
ofxdh v/;;u

mYjk[k.M d fofHku LFky l mi&ifjokj
ckd kuhuk l lcf/kr ijthoh;k d l xg d fy,
lo{k.k fd;k x;kA l xg.k l ckd kuhuk l lcf/kr
ueuk dh NVkb Hkh dh xBA iR;d o'k cdku rFkk
,Vuhdyl dh ,d itkfr dh igpku dh xBA cdkfu
ijthoh;k dh itkfr Lrj rd igpku ixfr ij gA
nu ?kkVh d vfrfjDr jk"Vh; ou dhV l xg
¼,u ,Q vkb l h½ e mifLFkr ifjokj ;ykfQMk
¼gkbeukIVhj½ dyl hMkMh;k½ dh ofxdh ij
v/;;u

l keU; l xg l yxHkx nk g tkj dM
tfMr ueuk dk NKV x;kA ,Ydkgy l jf[kr ueu
Hkh dM tfMr FkA fuEufyf[kr o'k rFkk itkfr;k
vfHkyf[kr dh xb rFkk vxrj igpku ij dk; tkj
gA ly;jkVkiQ l l itkfr ¼2 itkfr;k½ ,ikLVk/hVl
dkijMkVl] VVklVhD l itkfr] fu;VkbdkijkMkb l
itkfr] ijkgkfjlehu l itkfr] ihfM;k ok; l itkfr
rFkk ,yk l e l itkfrA

nu ?kkVh d vfrfjDr jk"Vh; ou dhV l xg
¼,u-,Q-vkj-l h½ e mifLFkr ifjokj
,ul k;jfVMk ¼gkbeukIVhj½ dyl hMkMh;k½ dh
ofxdh ij v/;;u

bVjuV l fgr fofHku l rkr l l fgr;
lo{k.k rFkk l xg.k fd;k x;kA l keU; l xg l ,d

g tkj ueu NKV x,A o l Hkh dM ij tM g, FkA
fuEufyf[kr itkfr;k vfHkKkr dh xBA
¼dkihMk l kek ojhdful] y{k l kQx l itkfr]
uLVhekD l itkfr] uko] QkblykQx l itkfr] uko
2 itkfr;k½ LFkkb LykbM cukb xBA

uhyfxjh thoeMy fjto: ¼,u ch vkj½ dh
vkFkIVhju fofHku

uhyfxjh thoeMy fjto e l kr vkok l d
v/;;u LFky t l lØc txy ¼efluk xMh½]
i.kikrh ou ¼ekMeykb½] 'kkyk ou ¼dkVfxjh½] ?kk l
Hkfe ¼dkMkukM½] l xku jki.k ¼dkjxMh½] l nckgk
ou rFkk nynyk ou ¼xnkyj½ vfHkKkr fd, x,A
ikjHk e N LFky rhu vkok l ik: ik ; Fkk& ?kk l Hkfe]
lØc txy rFkk i.kikrh ou ¼nk LFky@vkok l
ik: l k½ fo'uk d l nHk e t k fd ,UFkikxfud glr{k i
t l xfy;kj dh pjkb rFkk fu;f=r vx] d fy,
vfHkKkr fd, x,A vkFkIVhfj;k dh dy 17 itkfr;k
t l thukdVuVki l g;ehfy l] ekjQkfØ l
lydkV] vkjFkfØ l eMku] vkD;k fufVMYk]
gjkykbQ l cfu;ku] dk;jVdu FkfØ l]
VkjVkfjd k] ,ØhMk ,DlyVkvk] vkykjp l
Ldck;k l k] vkbihi kuhe l vkykfØ l] vkbyki l
Fkky l flul] ¼lybvck buQekV] VkykVji hM l
ojhdful] xLVhekjd l ,Yhdul] gvkfØ l iypj]
dkuk ligkfy l edykV l] ;dkuk l hQky l
buljV l fgejVy k itkfr] gD l k l UV l etj rFkk
xkyk m l flxhykV l] rhu fofHku ifjokj l
lcf/kr vfHkyf[kr dh xBA ,ØhMhM;k ifjokj u
14 itkfr;k d l cl ifrfuf/kRo dk ckV mld
lk'pkr VVxkfuMk dh pkj itkfr;k rFkk xkFkyhMk
dh ,d itkfr dk ifrfuf/kRo fd;kA itkfr
,Dl-g;ehfy l] l h-edykV l rFkk i h-buQekV t k
fd l Hkh vkok l e l k>h g dN itkfr;k dh etcku
jt d l kFk v/;;u dh xBA



,u-ch-vkj- e: vfHkfyf[kr dN vkFkdiVhju iitkfr;k@vkok I



nynyh ou



'kkyk ou



i.kikrh ou



dkukIQkyI
edyVht



Qykbvckk fiDVl



xIkuyk iDVhYkuI



dVuVkiI fixbl

edVkj if'peh ?kkV d: o"kk ouk: e: dk"B
fuoklh dod dh tiofofo/krk

dodh; Qydk;k d voykdu rFkk vfLrRo
ij vk/kkfjr v/;;u LFky edVk e igy o"k d
nkjku lifyx dk; d fy, LFkyk@VkIDVv dh
vkjfhkd igpku dh xBA dy ikp VklDV vfHkKkr
fd, x,A lHkh frekfg;k d nkjku l{e dodk d
iy[ku d fy, VklDVv d fu;fer nkj fd, x,A
l{e dod d fp=] lXg rFkk y{k.k o.ku d }kjk
ekulu] io rFkk iklV ekulu d nkjku dod dh
0;ikdrk d vk/kkj ij iy[ku fd;k x;kA dy
150 l{e dod vfHkKkr fd, x,A dod d vFklLrj
Hkh vfHkfyf[kr fd, x, t l fxj g, yVB] Vgfu;k
rFkk BBA v/;;u LFky d fy, l{e dod dh LFky
igpku d fy, ,d fu;e iLrdk Hkh fodflr dh
xBA

vpudekj&vejdVd tho eMy fjto

vpudekj&vejdVd tho eMy fjto dk
,d i.k ;,ub,lHvk ukekdu nLrkot r;kj
fd;k x;k rFkk thoeMy fjto d fo'o uVod e
inuke d fy, iLrr fd;k x;kA m".kdfvc/kh;
ue@l[k i.kikrh ou ik:ik d thoeMy fjto
ij lkgR; ,df=r fd;k x;k rFkk ouLifr
rFkk tho trvk ij lpuk v|ru dh xBA
vpudekj&vejdVd thoeMy fjto d ey rFkk
e/;orh {k=k l ekleh; vkdM ,df=r fd, x,A
vkfFkd :lk l egRoi.k l dVXLr ouLifr dh
lFkfr e/; {k=e vfHkfyf[kr dh xBA vDvcj 2010
e vpudekj&vejdVd thoeMy fjto dh frrfy;k
rFkk if{k;k dh igpku rFkk ,u Vh ,Q ih ,l
dh /kkj.kh; dVkb ij ,d fnolh; dk;'kkyk dk
vk;ktu fd;k x;kA thoeMy fjto dh lpuk dh
v/kokf"kd J[kyk ¼ch vkj vkb ,l½ dk idk'ku
fd;k x;kA tho eMy fjto dh e/; rFkk ifjoru
{k= l ,df=r frrfy;k dh 12 itkfr;k rFkk ekFk
dh 24 itkfr;k e l frryh iifkhek vokurk rFkk

ikfjr= l j{k.k ,o icU/ku



ekFk dh 20 itkfr;k vpudekj&vejdVd tho
e.My fjto d dhV ouLifr l;kktu e u;k
ifjo/ku FkA

mYkj&iohl Hkkjr d; p;fur nyHk rFkk LFkkfud
ikni d; vkuof'kd lkrk dk vUo"K.k rFkk
lj{k.k

e?kky; dh Aph Apkb;k ij db : ik e
ik;k tku oky fyfoLVkuk tfulduk;uk rFkk
xuhVe xuheku] ,y- tfulduk;uk d forj.k d
vUo"K.k d fy, dkch&,xykx] xkyk?kkV rFkk ftyk
tkjgkV] vle rFkk eku rFkk ftyk edkd px]
ukxky.M e lo{k.k fd, x,A xkeh.k ykxk d lFk
fopkj&foe'k dju d lFk ,y- tfulduk;uk rFkk
th- xuheku d fofHkUu mi;kxk dk tkuk x;kA
xkeh.k ykxk u ljj{kr fd;k RkFkk itkfr;k dh of)
d fy, ljj{kk nh D;kfd ykx iYkk dk Nr cuku d
fy, rFkk n'kh [^]>kih[^] r;kj dju d fy, i;kx djr
gA ,y- tfulduk;uk d chtk dk th- uheku dh
LVi dyek d lFk v/;;u LFky l ,df=r fd;k
x;k ftld iYk fofHkUu lenk;k e iYk okyh lCth
d :lk e mi;kx fd, tkr g] ukecej ou;tho
vH;kj.k l ,df=r fd;k x;k rFkk vdkj.k rFkk
mYkjthfork d fy, vkj ,Q vkj vkb d i;kxRed
ckxku e ik'kr fd;k x;k onk dki :fy;k dh [kk t
rFkk forj.k iVu dk v/;;u dju d fy, tgk fd
itkfr;k ikdfrd :lk l mxrh gA ukxky.M d eku
rFkk edkdpu ftyk dh rygvh e rFkk e?kky; d
phjki th] ekoflujke] nkodh rFkk ukxi e lo{k.k
fd, x,A ef.kij d mjdy fty e jhukuFkj
beLdfV;kuk fu"K/vfhkfyf[kr dh xBA xkeh.k
ykxk d lFk fopkj&foe'k d }kjk itkfr;k dh
ikdfrd mifLFkr ij v/;;u itkfr;k d ikjifjd
mi;kx ij vkdM] lekt e mud jhfr fjokt rFkk
l tkovh egRo dk ,df=r fd;k x;kA mYkjthfork
ifr'kr dk vfhkfyf[kr fd;k x;kA iknidkvk d
of) vkdM ;Fkk& iYk dh l [;k] vdkj Apkb] iYk
vkdj] bVjukM yEckb l [;k rFkk ok;oh; tM dh
yEckb ikjHk e rFkk rhu eghu d vrjky ij fy,
x,A l ixue vk/kkfjr ehfM;k e okUMk dkb:fy;k
d nk u, ijkg ikjHk vfhkfyf[kr fd, x,A

ft yk tkjgkV] vle e xkeh.k ?kjk d; vki l l
ip ouLifr;k d; ikni l l k/ku dh
tofofo/krk ij v/;;u rFkk xkeh.kk dh
lkekft d&vkfFkdrk e; bldh Hkfedk

v/;;u dk ip ouLifr d ikni l l k/kuk
rFkk ftyk tkjgkV] vle e xkeh.kk }kjk bld
fofHkUu mi;kxk d ckje ,d lph cuku d mnn';
l fd;k x;k FkA ij fty e 30 v/;;u LFkyk ij
fofHkUu itkfr;k d forj.k rFkk ikfjLFkrdh ij
v/;;u fd;k x;kA fofHkUu {k=k e iknik d
forj.k d vulkj unh d fdukj ytlLVkfe;k
cfjxVkf; & ieuk rFkk ckEcD lVhok&fclDkfQ;k
lenk; dh i/kkurk FkA nljh vkj
vkjVkdil&dLVkukifll&elvk ukxky.M d
rygvh {k=k dh vkj ik;k x;k rFkk fty d
if'peh Hkkx e f}rh; ipk e vx.kh itkfr;k
lDghek okyhph FkA

p;fur LFkyk e lkekftd&vkfFkd rFkk
ikfjLFkrd v/;;u Hkh fd;k x;kA xkeh.kk }kjk
nfud fnu p;k e i;kx dh tku okyh yxHkx
230 ikni itkfr;k dk vfhkfyf[kr fd;k x;kA ip
ouLifr;k d ikni l l k/kuk d fofHkUu mi;kxk dk
idk'B] b/ku&ydmh] Hkk tu] vk'kf/k] pkj] j'ke d
dhM d fy, ik'kd ikni rFkk vU; y?k mi;kxk e
J.khdr fd;k x;kA v/;;u {k=e vfhkfyf[kr fd,
x, idk'B mitho ikni g vkVkdil pkek]
,ychft;k ik ljk] dLVukifll vjekVkj
lh&VkbC;yk;Ml] flukee xyklhlel]
Mkb l ktkbye ik l hje] fedghfy;k ekuVuk rFkk
lDghek okyhph rFkk LVhfj;kLiJee dky l bR;kfn
FkA dN itkfr;k t l ekdhy l ckEckb l huk] fyV l h
ekuk ihVkyk] fgVfj;k iuDI QjxLI dk j'ke d
dhM d fy, ik'kd d :lk e vfhkfyf[kr fd;k x;k o
g& ihfMfj;k QkfVMk] lUVyk ,f'k;kfVdk] vkxhfj;k
Li hvk l k] Li hykFk l ,Deyk] LekbyDI tyfudk]
Økekyhuk vkMkjVkj Dyhj kMUMku dkyh;kod,ue]
; thfu;k cY l kfe;k bR;kfnA

ipk e miyC/k [kk] Qy ikni g ,VhMlek
cfu; l] cdfj;k lfiMk] fmfyfu;k bfMdj]
xklifu;k ekjyk] th- tUFkd;el rFkk
lkbthbft;e D;feuh bR;kfnA vU; vkfFkd ikni



t k fofHkUu vdk"B mi ;kxk e xkeh.kk }kjk mi ;kx
fd, tkr g o g dykeI fMU;bI] dufj;e cxkyU I]
Dyk>k tkbu fMdkVkek] ,D;yfj;k vxkykpj]
fyVfI ;k D;chck] fyfoLVkfu;k tufduI k;uKA

nk tkx: drk dk;Øe&,d fo"k;
^>kxhe[k] tkjgkV e ip ouLifr] ikni fofHkrk
rFkk vkthfodk Ij{k^k^ rFkk ^*ip ouLifr dh ikni
fofo/krk] bldh mi;kfxrk rFkk Ij{k.k^k Hkh
vk;kftr fd, x,A

mYkj&iohi Hkkjr e okfudh egRo dh LQixue
itkfr;k dh fofHkrk dh [kk t rFkk mi;kfxrk
{kerk

v: .kkpy in'k] f=ij] fetkje] e?kky;]
flfDde rFkk ukxky.M lfgr mYkj ioh lHkx e
Lixue itkfr;k dh [kk t d fy, fofHkUu ou rFkk
0;kikfjd ik/k'kkykvk rFkk cflr;k dk lo{k.k fd;k
x;kA jkT; ou fofHkxk] ,u ch vkj vkb] y[kuÅ d
okkfudk] th ch ih ,p vkb Mh] flfDde] ch ,l vkb]
f'kykx] ngjknu] flfDde ldy] ,u lh vk vkj]
flfDde] ,l ,Q vkj vkb] bVukuxj rFkk
fo'ofok]ky; e cBd dh xBA Lixue le)
cflr;k dh Hkxkfyd lpuk ,df=r dh xBA ioh
[kk lh igkfM;k rFkk if'peh [kk lh igkfM;k dh
fofHkUu cflr;k l ,df=r ueuk l ikniy; r;kj
fd;k x;kA Lixue dh pkj itkfr;k dh chp
itkfr;k dh 0;ogk;rk dk v/; ;u fd;k x;kA dy
pkj Lixue itkfr;k d Hkfrd x.k ¼ ih ,l ½
fo'yf"kr fd, x,A Lixue itkfr;k d l kFk
eØkiyhfQj'ku d fy, cEcI k ckydvk rFkk
ch- U;VU l p;fur fd, x,A flukee tyuhde]
,yb;kdkil] eyhuk vkckfj;k rFkk ,D;yfj;k dk
,ij y;fjx i;kxk d fy, p;fur fd;k x;k t cfd
dN vkjfdM itkfr;k dk ikfVx ehfM;k i;kxk
d fy, p;fur fd;k x;k rFkk ldkjRed ifj.kke
iklrg,A

vle e xukMek dh ixfr fofHkrk ij bldh
p;fur itkfr;k di mi;kx rFkk [krh di lnhki
e v/; ;u

vle d dke: lk] ekjhxko] ukxko] dkch ,xykx]
lfurij] tkjgkV] fMc:x<] frulfd;k] ppkj]
gyydkn rFkk djhex t ftyk e fofHkUu ou {k=k l

ikfjr= Ij{k.k ,o icU/ku

,df=r xukMek itkfr d Qy nu oky ueuk dk
,df=r fd;k x;kA ,df=r itkfr;k dh igpku
tkuu d fy, vkdkjdh; djDVj fd, x,A fofHkUu
xukMek itkfr;k d ,df=r Qydk; ueuk l
dod dk iFkd fd;k x;kA iVVk MDVjk l vxkj
¼ ih Mh ,½ dk xkfox ehfM;k d : lk e mi;kx dj
fofHkUu ueuk d 'k) dYpj dh r;kjh d fy, ekud
i)fr;k dk vulj.k fd;k x;kA iUng fnuk d
vrjky ij fu;fer midYpfjx rFkk teku okyh
volFkxv e Ij{k.k d }kjk ; dYpj ueu
i;kx'kkyk e ikf"kr fd, x,A dEikM ekbØLdk
d v/khu ekbØLdkfid djDVj v/; ;u fd, x,
rFkk voykdu fu;fer : lk l vfHkfyf[kr fd, x,A
tojkl;k;fud v/; ;u xukMek itkfr d fofHkUu
ueuk d dy ?kyu'khy phuh] ueh rRok dk vkdyu
tkjh gA xukMek rFkk bld mRikn d fy, cktkj
lo{k.k vle e mifLFkr 0;kikfjd xukMek mRikn
d fofHkUu forjdh dh lgk;rk l vle d cktkj e
xukMek mRikn dh miyC/krk ij v/; ;u tkjh gA

lkefjd egRo di Qyixfgy&Mkdyyk jkM]
ixkyk[kk] ou; tho vH;kj.k] flfDde] Hkkjr
dk tio fofHkrk iHkko vkdyu

3500&4000eh- d chp ,Yikbu] lc ,Yikbu
rFkk Vbki 14@lh2& bLV fgeky;u lc&,Yikbu
fclp@Qj QkjLV ¼ pfi;u rFkk lB] 1968½ d chp
xtjrh gb 33fd-eh- lMd d fuek.k d fy,
iLrkfor Ij[k.k d l kFk bMk&phu@HkVku
f=tD'ku d l kFk ixkyk[kk ou; tho vH;kj.k e
LFky lo{k.k dk dk; o"kk ou vul U/kku lLFkku dk
fn;k x;k gA



flfDde e bMk&phu ckMj d l kFk iLrkfor j.kulfr
flxfgy&Mkfyd ekx] 14@lh2&ioh fgeky;
mi ,Yikbu fcp

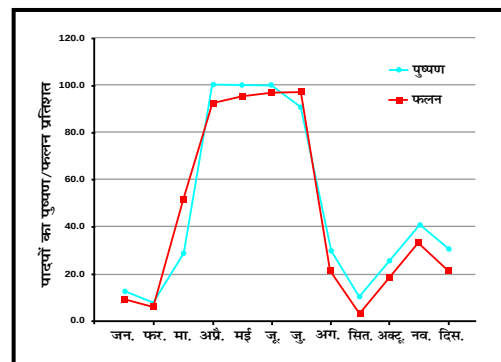


jktLFkku e bu&l hV rFkk ,DI&l hV l j{k.k d fy, tul[;k ?kurk] fofo/krk] uj&eknk ikni vuikr d v/;;u d fy, xxy tuun0; dk vkdyu

ifj;ktuk d rhu ?kVd g ;Fkk 1- lo{k.k dk; ¼ tul[;k ?kurk rFkk fyx vuikr dk v/;;u 2- l j{k.k rFkk 3- io/kuA lkyg fty ;Fkk& vtej] ckjeM] Hkh yokMk] p:] tlyej] tykj] >>u] tk/kij] djkyh] ukxkj] ikyh] jktlen] lokb] ek/kkij] f'kdj] fljkg h rFkk mn;ij ftyk dk lo{k.k fd;k x;kA th ih , l ykd'kul d l kFk ueuk Hk[k.Mk e ¼ vkdkj 0-1g-½ iknik dh l[;k rFkk lgk;d itkfr;k ij vkdM ,df=r fd, x,A {k= d Hkhrj d'kehQkj/foxVh e LFkfkud fofHkUurk Li"V :lk l fn[kkb FkA itkfr;k e ,d ldkjRed l;k tu vfHkfyf[kr fd;k x;k t l ;Qkjfc;k dM;l hQfy;k] ,df'k;k fluxy] cklohfy;k fljkVkj] ,ukthll iMyk] difj l MlhMvkj ththQl ueyfyj;kA ;g n[kk x;k fd igkMh {k=k e iFkjhyh jkLrk ij l h-foxVh vkerkj ij igkFM;k dh rygVh ij mxrk gA ;g jrhy jfxLrkuh {k=k e Hkh Hkyh idkj l mxrk gA mPp ?kurk e ikni lokb] ek/kkij] >>u] ckjeM] tykj] f'kdj] djkyh e ikb xb tcf d ukxku] ikyh] tlyej] fljkg h ftyk e xxy iknik dh de ?kurk voykfd r dh xBA djkyh fty e] enjk;y j t e pEcy ?kkVh d njk e ;g cgr foLrr :lk l forfjr g rFkk xxy dh ?kurk 47 ikni ifr gDV;j gA xxy iknik dh mPp ?kurk pkj LFkkuk e vfHkfyf[kr dh xb ;Fkk& dkV ¼ mn;ijokVh½ >>u dk QkjLV Cykd] rktkij ¼ lob ek/kkij½ fdjkn ¼ ckjeM½ rFkk phdyk ¼ tkykj½ 16 ftyk dk lo{k.k dju d lk'pkr 15 ftyk d 61 ou Cykd e xxy ik;k x;kA p: e dkb xxy tul[;k vfHkfyf[kr ugh dh xBA lo{k.k d nkjku uj ikni ugh n[k x,A

l j{k.k vLIh vfHkKkr dUMhMV /ku o{k k l ,DI&l hV l j{k.k d fy, tuun0; ,df=r fd;k x;kA foLrr fjdkM d l kFk l h ih ih , l dh 948 dye ouLifr io/ku {k= e mxkb xBA

io/ku% jktLFkku e i"i.k rFkk Qyu 0;ogkj d okf"kd v/;;u d fy, d;ykuk e xxy tul[;k ¼ tk/kij½ dk p;fur fd;k x;k t gk d'kehQkj/foxVh vi u ikdfrd vkok l e mxrh gA bl {k= e mx g, 66 xxy iknik e l i"i.k rFkk Qyu ij voykdu ifrekg vfHkfyf[kr fd;k x;kA i"i.k rFkk Qyu dk okf"kd fp=&1 e fn;k x;k gA t k/kij e xxy ikni u o"e nk ckj Qy fn, t l viy l tykb ¼ e[; Qyu ek le½ rFkk vDVcj l fl rEcj ¼ njh oky Qyu ek le½ uoEcj rFkk fn l Ecj d eghuk e lo{k.k d nkjku ckjeM rFkk tlyej e dkb Qyu ugh n[kk x;kA vxLr] vDVcj rFkk uoEcj ekg e lo{k.k d nkjku Øe'k½ vtej] tk/kij rFkk ikyh e vifjiDo Qy voykfd r fd, x,A bu vifjiDo Qyk dk ¼ tk/kij fty d ckjyh rFkk vkjuk LFkyk½ ik= vdj.k d fy, ,df=r fd;k x;kA bl vof/k ¼ vxLr l fn l Ecj 2010½ e fd l h Hkh lo{k.k fd, x, LFky ij ifjiDo Qy miyC/k ugh FkA



d;ykuk tk/kij½ e xxy iknik dk i"i.k rFkk Qyu 0;ogkj

d;ykuk ¼ tk/kij½ LFky e ekp e ifjiDo Qy ,df=r fd, x,A nk idkj d cht ;Fkk dky rFkk lQn ifjiDo Qyk e n[k x,A cht k dk rc gok l l[kk;k x;k rFkk dej d rkieku ij vxy ycy fd, g, gok cn lykflVd d ik= e j[kk x;kA nkuk dky rFkk lQn cht ck, x,A doy dky jx d cht 0;ogk; Fk tcf d lQn cht xj&0;ogk; FkA dky cht k dh vdj.k ifr'krrk 40% ikb xb rFkk cku d 5&16 fnuk d Hkhrj vdfjr g,A



ikl kfi l tyh^htykj dh t'ofofokrk] fuEuhd'r
lenkf; d Hkfedk d iuLFkkiu rFkk jktLFkku
jkt; e ykxk d vkt'fodk lkr d :lk e
iHkko

t/kij] ikyh rFkk p: fty e *ikl kfi l*
tyh^htykj le) LFkyk d p;u d fy, lo{k.k
fd;k x; kA p;fur LFkyk dh lgk; d ouLifr rFkk
tho tr fofokrk vfhkfyf[kr dh xba
ih- tyh^htykj ?kurk dk vkjul] xkpjl] vkj{kr
ou] {kkjh; Hkfe; k] ctj Hkfe; k ty LFkyk rFkk df'k
[krk e n[kk x; kA ih- tyh^htykj d lFk lgk; d
lcl lkekU; o{k Fk ,ukthll itkfr; k] ikl kfi l
flujfj; k] VejkuMl bfmDk] ,df'k; k fuykfVd]
difj l MlhMvk] lyokMkj itkfr] , tMhJDV
bfmDk] ,df'k; k VkjVhfy l] ,df'k; k
Y; dkQfy; k] ,df'k; k fluxy] ththQl itkfr
rFkk ,xy ekehyk lA vU; ouLifrd fofokrk
e dykVfkl ikdj] Vijfkl; k ijl; fj; k]
dfl; k vkjhdvV] ,fj l fVMk jk; fyvuk]
,jok VkeuVkl] yIVkMhfu; k ik; jkVfDud]
; Qjfc; k dk; M; lhQfy; k] dupjl flfy, fj l
l kbi l jkVuMl] lkbukMhu MDVhyku rFkk Dykfj l
itkfr lEefyr FkhA ih- tyh^htykj e bu^htykj lhu
5-11-eh- l 11-11-eh- rd fHkUu FkhA Qyh dk vdkj
7-61-eh- l 20-11-eh- rd fHkUu FkhA buQykj lhu
rFkk Qyh dk lcl vf/kdre vdkj ty fudk; k d
utnd mxu okyh ih- tyh^htykj e vfhkfyf[kr
fd; k x; kA

enk lfiikn ikf.k; k rFkk ,uVkekQkuy
boVhoVl d ikp legk rFkk oVhoVl d pkj leg
ih- tyh^htykj d lFk lc) FkA bQykj lhu rFkk
Qyh l lc) tho tr dk voykdu fd; k x; k rFkk
t/kij fty e gkbeukIVjk dh nk itkfr; k ,fi l
Mkj l kVr rFkk ,fi l tykfj; k] fMiVhjk dh nk itkfr; k
rFkk yiHkIVjk dh nk itkfr; k d :lk e vfhkKkr
fd; k x; kA jl pld vkDlhjph t VLMI dk ruk
rFkk 'kk[kkvk ij Hkktu rFkk ituu djr g, rFkk
dkyh phV; k d lg; kx l gjh Qfy; k dk Hk{k.k
djr g, voykdr fd; k x; kA mudk rhu ikdfrd
t'fod Hk{kdk }kj Hk{k.k fd; k x; k ftUg l jh l i dh
, d itkfr rFkk dhVHkfk; k dh nk itkfr; k d :lk e

vfhkKkr fd; k x; kA ch t cfdMl dh nk itkfr; k
cDl fpuufll rFkk dlhMku ljkVl dk 'k'd
Qfy; k l vfhkfyf[kr fd; k x; kA jkMUV dh ,d
itkfr dk ikl kfi l tyh^htykj dh v/k'k'd Qfy; k
ij Hkktu djr g, voykdr fd; k x; kA

;g ik; k x; k fd ch t k dk pkj d :lk e]
dkV g, o{k k dk b/ku dh ydMh] to ckM] ckM
dju] pkjd ky cuku rFkk df'k vktkj d Hkxk dk
cuku d fy, mi; kx fd; k x; kA ih- tyh^htykj dh
l [kh Vgfu; k dk fofHkUu dk; Øek d v/khu u, jki
x, vdjk dh j{k k d fy, Hkh mi; kx fd; k x; kA
l [kh Vgfu; k dk ,fo; u itkfr }kj k ?klyk
cuku d fy, Hkh mi; kx fd; k x; kA
,df'k; k vkjhdvHkfel dk vl; ; u vof/k d
nkjku voykdr ugh fd; k x; kA

fon'kh Y; duk Y; dk lhQkyk d lFk lc)
tho trvk dk vfhkKkr fd; k x; k rFkk
,fi l Mkj l kVr] ,fi l tykfj; k rFkk ikfy lVl
itkfr gkbeukIVjk d :lk e iyf[kr fd; k x; kA
Qyh rFkk ch t k dk fIVkdyk Økejhe; ; r% eknkvk
}kj k [kk; k x; kA Y; duk Y; dk lhQkyk dh Qfy; k
rFkk ch t k dk Hk{k.k djr gvk dkb dhV ugh n[kk
x; kA ;g ik; k x; k fd ,df'k; k Vjfyh l dh
Qfy; k dk gueku yx: leukikpdl ,UVhy l
}kj k [kk; k x; kA

ftyk pEck] fgeky in'k d [ktj ou; tho
vH; kj.k e ouLifr fofokrk dk ikfjLFkfrd
vkdyu

;knfPNd :lk l fofHkUu idkj d rFkk
fofHkUu Åpkb oky {k=k e o{k} >kfM; k rFkk tMh
cfV; k d fy, vyx l DokMjVl cukdj igy l
p;fur LFkyk e Qk; Vk lkekftd v/; ; u fd; k
x; kA bl ifØ; k e rykb&1 chV e ikni itkfr; k
dh l [k tk 55 ifjokj l lcf/kr 149 rFkk
Dojd l Y; dkVkbdkQjk] ikf l; k fLeFkkuk]
cjofj l ykbf l; e] dkVkf; LVj ekbØkQkby l]
lkj dkd k lyh xkuk] okbcjue , :cllul]
:eDl gLVkVl] oyhjh; kuk tVkeu l h rFkk
clyh; je QydV dh i/kkurk d lFk 33 o'k
vfhkfyf[kr fd, x, t'fod [kk tjkV chV e iknik
dh dy l [k 60 ifjokj l lcf/kr 105 rFkk



vHk;kj.; e 'kd/kkjh ou



MDVhykjfg tk gVkt'hfj;k



eyk,D/h/l eL/hQjk

ikbfl;k fLeFkkuk] Ikjd'kd'kd Iyhxuk rFkk oyhfj;kuk tVeku/h dh i/kkurk d lkFk 95 o'k vfhkfyf[kr fd, x,A [ktj chV e vfhkfyf[kr fd, x, dy ikni itkfr;k dh l[;k 101 Fkh tk fd 54 ifjokj rFkk 95 o'kk l lcf/kr ifl;k MFkkb] ikbfl;k fLeFkkuk] Ikjd'kd'kd Iyhxuk okbcjue ,:ch/lul] ikyhxkue dihvVv rFkk cftfu;k flyhvkvk dh i/kkurk d lkFk vfhkfyf[kr dh xb gkykfd vH;kj.k {k= d dxjjk[k dhV e ikni itkfr;k dh l[;k dy 127 Fkh tk 65 ifjokj l lcf/kr Fkh rFkk ikbul oyhfp;kuk] ikbul jkD'loxh] cjofjl ykbfl;e] ,ukQkfyf fviykbujfol] u:njVe vkfQlifu;y rFkk dkeh'yuk iymk/lk dh i/kkurk d lkFk 119 o'k FkA vyk chV e ikni itkfr;k d vfhky[ku e 44 ifjokj l lcf/kr 93 itkfr;k rFkk ikbfl;k fLeFkkuk] Ikjd'kd'kd Iyhxuk] okbcjue M:cldul] oyhfj;kuk tVeku/h rFkk ,jkb/lk bVjrhfM;e dh i/kkurk d lkFk 87 o'k FkA blh idkj dk vfhky[ku tc nud.M chV e fd;k x;k rk Kkr gvk fd 54 ifjokj l lcf/kr 102 ikni itkfr;k rFkk 95 o'k g i/kku itkfr;k lhmI nonkj] ikfI;k fLeFkkuk] Ikjcfj;k VkeuVklk] okbcjue b:cldul] oyhfj;kuk tVeku/h rFkk ,jhtjku eYVhjfmvkl vfhkfyf[kr dh xb tcd yDdMeMh chV e ikni itkfr;k dh l[;k 81 vfhkfyf[kr dh xb tk fd 52 ifjokj l lcf/kr Fkh rFkk 76 o'k FkA i/kku itkfr;k Dojd/Y;dkVbdkQjk] lhmI nonkj] Ikjd'kd'kd rFkk oyhfj;kuk tVeku/h FkA vH;kj.k; dh rykb&II

l 109 ikni itkfr;k 58 ifjokj l lcf/kr rFkk lhmI nonkj] cjcfjl ykbfl;e] Ikjd'kd'kd] cftfu;k flyhvkvk] oyhfj;kuk tVeku/h rFkk ikbfy;k LØhVv dh i/kkurk d lkFk 127 o'k vfhkfyf[kr fd, x,A

lEi.k :lk l vH;kj.k {k= e dy ikni itkfr;k dh l[;k 232 Fkh tk 76 ifjokj l lcf/kr Fkh rFkk 218 o'k FkA

{k= vfhky[ku u Hkh dkykVki&[ktj ou; tho vH;kj.k l vk''k/kh; egRo dh 100 ikni itkfr;k dh miflFkr fn[kkb ftldh lkr itkfr;k ;Fkk&flukekue Vkeyk] Mk;kLdkfj;k MYVkvbfM;k] ifjl ikyhQkbyk] ikMkQkbye gDlUME] ikyhxkukVe] ovhlykVe] VDlI oyhfp;kuk] tUFkk tkbye vekVe ldVxLr iknik dh J.kh e ikb xba vH;kj.k {k= d vklkl d 14 xkek e ,FkukokVfudy v/; ;u Hkh fd, x, rFkk LFkkuh; ykxk }kjk mudh nfud vko';drk e mi;kx dh xb 45 ikni itkfr;k vfhkfyf[kr dh xba

fgepy ini'k d fofHkUu dkfuQj ouk e ukDVbM 'kYHkk 4y/i hMklVhjk]ukdVokbMk½ dk ofx:dh] tlofofo/krk rFkk vkok l l;ktu

ukDVbM] vkoyV 'kYHkk] jkLVyh&fcYV ekFkl dk ,d ifjokj g ftle lHkkor% 100]000 dy e l 35]000 vfhkKkr itkfr;k 4200 l vf/kd o'k lfeefyr ga o yihMklVhjk e lcl cm ifjokj dk xBu djr ga ;jki e ikb tku okyh 1450 itkfr;k d lkFk budk forj.k of'od ga vf/kdk'k e uhj l vxi{k gkr ga ;lfi dN e pedhy jxhu



gkbMfox grk gA fyxk e vkerkj ij dN vrj grk
gA ukDVokBmk vIk/kkj.k l[;k e itkfr;k dk
j[ku d fy, Lej.kh; g ftld dVjfiyj dN
tgjhy iknik dk fcuk ud l ku fn[kk ldr gA ;
[kk] ik/k t l lkykuf l;k ¼ fudhfV;kuk ½ rFkk
Qcfl;k ¾ l k igkj k½ j l k;u j[kr g t k vf/kdk'k
dhV k dk t k mUg [kku dk i;k l djr g dk ekj
nxA

e?kky; e₁ [kk l h mi & m".kdfVc/kh; ue igkMh
ouk₁ dh i kni fofo/krk dk vkdyu

$$i_k f_j r = l_j \{k, k, o, i\} cU/ku$$

t i k j f j t o l Q k j L V e l j { k . k d f y , i k n i
fofo/krk xfr dh dk vkdyu

2-1-7 vkØe.k

jktkt h jk"Vh; ikd e lky rFkk fefJr
ouLifr lenk;k d v/khu yUVkuk d gVko d
i'pkr i/kku o{k itkfr;k d iutuu dk v/;;u
fd;k x;kA lky rFkk fefJr ouLifr lenk;k d
v/khu yUVkuk d gVko }kjk iHkkfor ouLifr <kpk
rFkk jpuk dk vkdyu fd;k x;k rFkk ;dfyIVI d
ou jktkt h jk"Vh; ikd e jkfir fd, x,A lky rFkk
fefJr ouLifr lenk;k d v/khu yUVkuk gVko rFkk
yUVkuk vkØfer LFkyk e enk ueh rFkk enk rkieu
dk vuJo.k fd;k x;kA dN n'kh v.Mj LVkj
ouLifr tI v/kkVmk ofI/dk] ejj;k dkbfluxh
,gjhfV;k yk,foI dh i/kkurk e Ijguh; ifjoruI



ikd {k= l yUVkuk d gVko d ifj.kke d :lk e
vfhkfyf[kr fd, x,A Dykfj/ Mkyhpk/LVfp;k
?kk l dh i/kkurk e ljkguh; ifjoru jkfir ou
ikfjr= e yUVkuk d gVko d ikfjr= d :lk e
vfhkfyf[kr fd, x,A

e/; in'i'k dh tcyij] druh] eMyk rFkk
fl;kuh fty; di ou vkØe.k'khy itkfr;k
¼,Q vkb; , l ½ dk i:y;[ku rFkk forj.k

vifjfr itkfr;k vLon'kh rFkk fon'kh
vxfu te gkr g tk fd viuh ikdfrd vxhdr jt
l ckgj viuh Qyko {kerk d dkj.k ink gkr gA
db vifjfr itkfr;k gekjh d'k rFkk okfudh r=
dh lgk;rk djr gA vifjfr itkfr;k vkØked
itkfr;k cu tkrh g tc mUg tkuc> dj ;k cxj
tku c> mud idfrd vkok l d ckgj u, {k=k e
mxk;k tkrk g tkg o LFkfr gku] vkØe.k dju
rFkk n'kt itkfr;k d l kFk ifrLi/kk dju dh
{kerk fn[kkrh gA io e fofHku n'kk e tkuc> ij
ifjfr djokb xb db ikni itkfr;k ou
tofofo/krk d fy, e[; Hk; cu xb g rFkk mudk
fu;f=r dju d mik;k u i;klr vkfFkd lkrk dk
miHkkx dj fy; k gA



fefJr ou e gkbifVI l vkohyUI



l xku ou e
yUVkuk dekjk

dfl;k Vjkj

gkbifVI l vkohyUI
i;kØe.k

Σ LFkyk d p;u rFkk uD'kk d ,d=h dj.k d
fy, pkj ftyk ¼ tcyij] eMyk] druh rFkk
fl;kuh½ dk vkjfhkd lo{k.k ijk dj fy;k
x;k gA

Σ v/; ;u LFkuk dk LFky fooj.k vfhkfyf[kr
dj fy;k x;k gA

Σ lHkh LFkyk e tMh cfV;k rFkk ?kk l d fy,
144 DokMjV ¼ 1x1eh½ cuk, rFkk ouLifr
ijkehVj vfhkfyf[kr fd, x,A

Σ vkØked itkfr;k d l kFk >kfM;k
rFkk NkV ik/kk d v/; ;u d fy,
48 DokMjVI ¼ 5x5eh½ cuk, x,A

Σ lHkh fty e itkfr;k d bu;ehj'ku d fy,
20 x 20eh- d 48 DokMjVI cuk, x,A

Σ dy 39 ,Q vkb , l vfhkfyf[kr fd, x,A

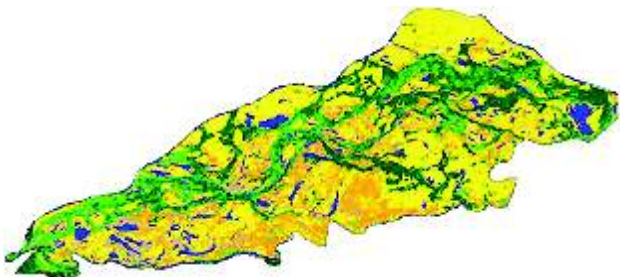
Σ fQukykftd voykdu Hkh vfhkfyf[kr fd,
x,A

dkthj;xk jk"Vh; m|ku] vle ei feeklk
vkØe.k dh ikfjLFkfrdh ij [kk t

v/; ;u LFky dk 810eh- x 810eh- vkdkj dk
fxM uD'kk cuk;k x;kA dkl j l kY; 'ku lVykbV
beft t dk oxhdj.k ¼ LISS 3 ½ ijk fd;k x;kA
iR;d jt e feeklk dh mifLFkr@vuifLFkr d
fy, i'ukoyh vk/kkfjr leh{k lo{k.k fd;k x;kA
feeklk vkØfer ipk d ftik&dkvkMhuVI d
lxg.k d fy, v/; ;u LFky dk th ih , l vk/kkfjr
ikFked lo{k.k fd;k x;kA th ih , l lpuk ij
vk/kkfjr , d {kerk vkØe.k uD'kk Fkka oDVj yij l
tl ty fudklh] lMd] di fLFkr;k] d{k rFkk
fxMk dk th vkb , l okroj.k e {kerk vkØe.k
uD'k d lefdr fd;k x;k rFkk vk/kkj uD'kk r;kj
fd;k x;kA jk"Vh; nj lonu dn] gnjkcn l
mPp j l hY; 'ku lVykbV beft l ¼ LISS 4, PAN ½
[kjhnk x;kA cxxjh jt dk mPp j l kY; 'ku ouLifr
uD'k dh r;kj ijh gk pdh g rFkk dkgjk jt dh
ixfr ij gA ehek lk ipk dh th ih , l ykd'ku
¼ ikyhxu rFkk lokbV nuk½ dk bet e i.k :lk l
fujh{k.k fd;k x;kA rhu fofHku feeklk lØfer
LFkyk e QkbV&lkekftd v/; ;u fd, x,A lHkh



ikni itkfr;k d vfHkfyf[kr QkbV&I kekft d
rFkk iutuu vkdM yEc ?kk l d enkuk e ik, x, A
l Hkh o{k itkfr;k d 0;k l rFkk Åp kb ij vkdM
fy, x, rFkk >kfM;k @yEc ?kk l d l Hkh ,dyk dh
l Hkh DokMjVI e fxuk x;kA vkdM dh l x.kuk rFkk
vxrj fo'y" k.k ixfr ij gA ehek l k dh
fQukykft dy ?kVukvk ij vkdMk vfHky[ku ijk
dj fy;k x;k g rFkk fQukxke r;kj fd, x, gA
LoLFk ehek l k i knik l cht vkøfer {k=k l vfHkKkr
fd, x, rFkk if'peh] e/;] ioh rFkk d ,u ih dh
cj kQj jtk l ,df=r fd, x, chtk dk iLLdr
fd;k x;k rFkk cht tfodh rFkk vdj.k v/;;u d
fy, Hk.Mkfjr fd;k x;kA ekud vkb , l Vh ,
i)fr;k dk vulj.k djr g, chtk dh 0;ogk;r
rFkk vkt dk v/;;u fd;k x;kA i;kx'kkyk rFkk
ik/k'kkyk voLFkvvk e cht vdj.k ijk{k.k fd, x, A
enk cht cd l vdj.k mnxe d fy, LFky ijk{k.k
fd;k x;kA cht xkMu dk iHkkoj fofHkUu lk;koj.k
vuikr e toit fo'y" k.k rFkk fofHkUu vrjky
i;kxk e cht dk ikuh e Hkhxuk ixfr v/khu gA



dkthjxk jk'Vh; ikd] vle] Hkkjr dk
lVykboV vkdMk oxhdj.k ¼ LISS3½

2-1-8 ou ouLifr foKku

Hkkjrh; dk"B&mudh igpku] x.k rFkk
mi;kx&Hkkx&II dk l i'kk/ku

bl ifj;ktuk dk mnn'; ekbØkLVDpj
vkdMk rFkk x.kk rFkk mi;kx ij lpuk dk
v|ruhdj.k dj d Hkkjrh; dk"B&Hkkx&II dk
l'kkf/kr djuk gA rbl ifjokjk d ekbØkLVDpj
Qhpjk dk mud ekbØkQkvxkQl d l kFk ,df=r
fd;k x;kA lkj ,df=r vkdM dk fyf[kr e
^*bfM;u oMl&n;j vkbMfvfQd'ku ikiVht ,.M
; lht^* l nHk ifLrdk d nlj Hkkx e lekfr fd;k
t k, xkA

Hkkjrh; dk"Bk dk ifrnhr v/;;u

ifrnhr dk; dk fo'y" k.k dju dk ,d
u;k rjhdg rFkk fofHkUu idkj d mRiknk d y{k.k
o.ku e bl dk mi;kx c<r k gvk fn[kkb n jgk gA
ifrnhr cgr vf/kd rt gk tkrk g tc ijkcxuh
jk'kuh en[kk tkrk gA oLr, tk l; dh jk'kuh e
de fn[kkb nrh g ;k xj&QY;jk lhu gkrh g
ijkcxuh jk'kuh d v/khu cgr vPNh idkj l
fn[kkb nrh g rFkk vDlj ifrnhr y{k.k o.ku
djr k gA vHkh rd dk"B d v/;;u e bl i)fr dk
vui;kx cgr de gA dk"B ifrnhr ij v/;;u
dk cy feyk tc bl dk"B 'kjhh foKkfu;k dh
vrjk'Vh; , l kfl, 'ku ¼1989½ }kjk nh xb y{k.k
lph d v/khu bl of.kr fd;k rFkk dk"B 'kkjhfdh;
v/;;u d fy, ,d egroi.k y{k.k d :lk e of.kr
fd;k x;kA vr% Hkkjrh; dk"B dk ifrnhr 0;ogkj
ij ;g v/;;u fd;k x;kA bl ifj;ktuk d v/khu
750 itkfr;k ¼5000 dk"B ueuk½ d fy, vkdMk
,df=r fd;k x;k rFkk fjikV fd;k x;kA

fon'kt ikbul itkfr;k dk oxh dh ,o
'kkjhfdh; v/;;u

thul ikbul 110 itkfr;k ;Dr
¼fjpm l u 1998½ e[;r% oxk e foHkktuh; uhMy l]
dku <kpk bR;kfn ij vk/kkfjr gkrk gA Hkkjr e]
ikp itkfr;k e/;e {k=k e vfHkfyf[kr dh xb
¼pgku et.al.,1996½A miyC/k lkfgR; dk ikjfhkd
lo{k.k lfpr djrk g fd db fon'kh ikbul
itkfr;k dh itkfr Lrjh; igpku mud
ekbØkLVDpj d }kjk lHko ugh g rFkk leg db
itkfr;k dk feyk dj cu gA vr% fon'kh ikbul d
vkdjdh; rFkk 'kkjhfdh; ij v/;;u mud iHkkoh
mi;kx d mnn'; d fy, cgr vfuok; gk x;k gA
{k=e fon'kh ikbul itkfr;k dh igpku d fy,
bl okfNr vkdkjdh; v/;;u d fy, bu fon'kh
ikbul oky jki.kk dh Hkkjr e lphiu {k=k d fy,
mud jki.k LFkyk l mud ,d=hdj.k d fy, rFkk
vuorh 'kkjhfd v/;;u d fy, lkfgR; lo{k.k
fd;k x;kA vr% ifj;ktuk dk mnn'; fon'kh
ikbul itkfr;k d ofxdhdk rFkk 'kkjhfd
v/;;u djuk FkA pEikor ou iHkkx] fiFkjkx<
¼vulU/kku ik/k'kkyk rFkk lbiky] ykg?kkV]
iuFkh ou ipk;r rFkk l [kh <kx pEikor½ dkfydk
vulU/kku dn jkuh[kr ¼fiukre½] pdjrk rFkk

ikfjr= l j{k.k ,o icU/ku



dkylh ou iHkkx rFkk ou vulU/kku ILFkku l
 ikniky; rFkk dk"B ueu ,df=r fd, x,A
 fuEufyf[kr itkfr;k dk dk"B 'kjhj foKkfu;k dh
 vrjk"Vh; ,lkfl,'ku d ¼124 y{k.kk }kjk nh xb
 y{k.k lph d vulkj mud ekbØkLVDPj d fy,
 v/;;u fd;k x;kA ih- MUlh[tykj] ih- ,yhvkvh
 ih- xxh] ih- ekVh tek] ih- mdkjik] ih- iryk]
 ih- lMkLVkcl] ih- fjxMk] ih- VMk] ih- ,YMkfjd]
 ih- gyufll] ih- fyvk;kQkbyk] ih- dfl;k]
 ih- mdkjik] ih- ivyk] ih- djhfc;k] ih- ,dfgukV]
 ih- ejdlh] ih- ,jhtkfudk] ih- MltufLkl]
 ih- ,utyeuh] ih- fixyh] ih- cfV;k] ih- dkjfldk]
 ih- ,mfyl] ih- ekukQkbyk] ih- buIykfjl]
 ih- tQjb] ih- Vkjh;kuk] ih- rkbokufll]
 ih- ukbxjk] ih- Qkjeklkuk] ih- thtk,ufll]
 ih- dk;ekb] ih- ejh] ih- ikyhV] ih- MUlh[tykj]
 ih- vkjeMh] ih- dkjk;ufll] ih- yjhfd;k]
 ih- yEcjVkbuk] ih- ekuVuk] ih- jlhuklk]
 ih- ikMhjk lk] ih- flyolfvl] ih- LVkcl rFkk
 ih- ekVhdkyA

Hkkjr; >kfM;k dk dk"B 'kkjhfdh; ij mudh
 igpku rFkk iHkkoh mi;kx dh fy, v/;;u

o{k dh dVkb ij jkd rFkk o{k dk"B
 l lk/kuk dh deh d dkj.k] >kfM;k l feyu oky
 dk"B dk db vr mi;kxk d fy, t l gMy] Quhpj]
 df"k vktkj bR;kfn d fy, odfYid lkr d :lk
 n[kk x;kA db >kfM;k d ruk dk Hkh db
 QkekLVhdy dEifu;k }kjk fofHkUu nokb;k dh
 r;kjh d fy, mi;kx fd;k x;kA Hkkjr e vHkh rd
 Hkkjr; >kfM;k d dk"B 'kkjhfdh; ij ge dkb vf/kd
 tkudkj h ugh gA vr% 'kf{kd mnn'; d fy,
 Hkkjr; >kfM;k d dk"B 'kkjhfdh; vkdM Hkh
 okfNr gA vHkh rd Hkkjr e tkbykVkfed ¼dk"B
 'kkjhfdh; v/;;u½ dh fo'k"Krk e[;r% ou
 vulU/kku ILFkku] ngjknu e gh miyC/k gA vr%
 ;g dk; doy ;gh gk ldrk gA vr% ifj;k tuk dk
 foLrr mnn'; Hkkjr; >kfM;k d 'kkjhfdh; <kp
 dk v/;;u djuk gA v/;;u d vr e Hkkjr;
 >kfM;k d fy, itkfr igpku d th fodflr dh
 tk,xh tk fd dk"B igpku e ,d iekf.kd jLrk
 miyC/k djok,xh tk fd idk"B rFkk QkekLVhdy
 m[kx nkuk e mud iHkkoh mi;kx dh vkj y
 tk,xkA Hkkjr e vHkh rd ge Hkkjr; >kfM;k d
 dk"B ekbØkLVDPj ij vf/kd tkudkj h ugh gA vr%

;g viuvki e foLrr 'kf{kd egRo d lFk igyk
 gkxkA vHkh rd Hkkjr e tkbyVkeh v/;;u ij
 fo'k"Krk e[;r% ou vulU/kku ILFkku] ngjknu e
 gh miyC/k gA vr% ;g dk; doy ;gh fd;k tk
 ldrk gA ;g iLrkfor dk; ,d ifjokj d Hkh rj
 ekt n dN jkp d <kpRed iVuk dk >kfM;k rFkk
 o{k d fofHkUu 'kkjhfdh; d lFk ckgj idV dj
 ldrk gA ;g ofxdh J.khdj.k e ,d :lkrk rFkk
 fo"ke tkrh;rk dk ifrfcfr djxkA vHkh rd
 v/;;u eykLVek ekykcfjde] vkdlhikj iuhdyV]
 vkLcf;dk fØuhV] vkthek VVkdUfkk] lYokMkjk
 ifldk] jkMkekFkjVI VkeuVkl] lhfM;e Xoktkok]
 ekbjhdff;k LDokekV] oMQkjfm;k YVhdkl]
 jklk ydgufV;kuk] vkj- eØkQkbyk] vkj- ekLpV]
 vkj- ljhfl;k] :cl ,yhlVhd l rFkk
 :cl ykbu,VI d fy, fd, x, gA

ikl;y l MYVokbMl ckVj- ,DI ek'ki d;
 fofHkUu Dykuk dh lrrfr;k d dk"B xl.kk rFkk
 of) dk vkdyu

of) ijkehVj t l o{k Åpkb rFkk Mh ch ,p
 ¼o{k; Åpkb ij 0;k l ½ dk iR;d ,dy d fy,
 dk"B ueuk d l xg.k l igy ekik x;kA N% o"k dh
 vk; oky foedk jki.k fy- :nij ¼m/keflg uxj½
 Hkkjr }kjk mxk, x, ikl;y l MYVokbMl dh
 100 lrrfr;k l v/;;u lkexh ,df=r dh xBA
 jfM;y ojh,'ku dk doj dju d fy, ifjf/k fn'kk
 l rhueTtk l dk"B ueu ,df=r fd; x;A iR;d
 ueuk nk of) pØk dk j[krk g tk fd ueu dh vk;
 dh ,d :irk dk cuk, j[krk gA rh l lrrfr;k d
 fy, Qkbcj yEckb] 0;k l] nhokjk dk xk<kiu] o ly]
 ,yhev yEckb rFkk 0;k l rFkk fo'k"K ?kuRo d fy,
 vkdM ij fd, x,A

ou vulU/kku ILFkku] ngjknu ikniky; dk
 vidh; dj.k

Σ lkyg lk pkgRrj itkfr C;kj r;kj fd, x,A
 ,d gtkj rhu lk bD;k l h dk vkdMk vk/kkj e
 lekfo"V fd;k x;k

Σ X;kjg gtkj uk lk chl ueu C;kj r;kj fd,
 x,] 7861 ueuk C;kj vk/kkj vkdM e lekfo"V
 fd, x,A

Σ lkyg gtkj uk lk bDrkyhl ueuk QkV fy,
 x, rFkk 13056 QkV dk lEikfnr fd;k



2-1-9 tutkrh; rFkk ikjifjd Kku i: kkyh

vk/k i:n'k e: iohi ?kkVka d: mYkjH Hkkx dk ekuo okuLifrd v/;;u

fjiKV d v/khu vof/k d nkju Jh dkdye] fot;k uxje rFkk fo'kk[kkivVue ftyk d tutkrh; {k=k e ogn LFky nkj fd, x, rFkk iklfxd lpuk d lkFk ekuo okuLifrd :lk l egRoi.k ikni itkfr;k dk ,df=r fd;k x;KA v/;;u {k=k l lkokjk} [kkM tkvki] dkMkMkj] udkMkj] ckxkFkk rFkk ijtk tutkrh;k l 197 ikni itkfr;k ij ekuo okuLifrd vkdM ,df=r fd, x,A dy 180 ueu ,df=r fd, x,) mUg ikniy; yk;k x;k rFkk vfhkKkr fd, x,A ekuo okLifrd vkdM dh miyC/krk lkfgR; dh lgk;rk l tkp rFkk NkV x,A v/;;u dh vof/k d nkju de tkuh tku okyh vk"K/kh; iknik dk tutkrh;k d }kjk fofHkuu fodkjk d fy, mi;kx fd;k x;k t l % dfj;k vkckjh;k ¼ lin'k rFkk ,VhMkb lUVh d fy, ½ ØkVyfyj;k jhV l k ¼ fejxh½ Mkbuffj;k Doj l hQkfy;k ¼ vflFkHkx d fy, ½ gkbxkfQyk vkjhdYkVk ¼ ihyh;k½ l;jfj;k V;Ckj l k ¼ iV nn d fy, ½ okVkdak okY;fcfy l ¼ tgjhy Mdk d fy, ½ A e/; in'i'k e: lrimk iBkj d tutkrh; ikdVka e: ipfyr ekuo vk"K/kh; mi;kxka e: iknik dk mi;kx iVu

ikjifjd fpfdRld tk fd oreku v/;;u d {k=k e ipfyr g tcyij] eUMyk] dVuh rFkk fNnokMk fty e cjk] xkm] Hkfj;k] dky tutkr l lcf/kr e/; in'k d lrimk ikjifLFkrd& {k=k e flFkr FkA ; tu fpfdRld vk"K/kh; rFkk lxf/kr iknik dk mi;kx djd tk mud tutkrh; cflr;k d pkjk vkj d ou ikfjr=e ikb tkrh g] l jkfx;k dh fpfdRld rFkk cpko dh dyk dk o'kkxr j[kr gA ; fpfdRld ou ikfjr=k d ik, tku okyh iknik dh ,d cMh l[k d x.kk dk tkur g ft ldk iy[ku dju rFkk jkxk d mipkj d fy, oKkfud :lk l ijhf[kr dju dh vko';drk gA vkerkj ij , l ik/k ouk l txyh :lk e m[kkM tkr

g rFkk Hkkjh 'kk"K.k d dkj.k ,lh db itkfr;k 0;kikfjd mi;kx d dkj.k foylr gku dh voLFkk e gA rnulkj ikjifjd Kku ij bl idkj dh lpuk dk ikjifjd fpfdRldk }kjk vk"K/kh; iknik d 0;kikfjd mi;kx d lkFk ikFfedrk d vk/kkj ij iyf[kr fd;k x;k rFkk db Qkje lVhdy dEifu;k bl {k=k d 0;kikj e lfefyr gA

ikjifjd fpfdRld l ikjifjd Kku dk iy[ku dju d fy, e/; in'k d eMyk] tcyij] dVuh rFkk fNnokMk e le) tutkrh; ikdVk dk igpkuu d fy, {k=k lo{k.k fd, x,A vk"K/kh; mi;kx d lHkh 507 iknik e ftUg fd mi;Dr pkj ftyk d tutkrh; ikdVk d 134 ikjifjd 'kkdh; fpfdRldk tutkrh;@LFkkuh; ykxk e gku okyh fofHkuu chekfj;k d bykt d fy, mi;kx fd;k k tkrk g] dk iyf[kr fd;k x;k;KA

l=hdj.k d lkFk fo|eku mi;kx iVu vkj fofHkuu vke jkxk d fo:) ikjifjd 'kkdh; fpfdRldk }kjk mi;kx fd, tk jg vk"K/kh; iknik d mipkj vkfn dk Hkh iyf[kr fd;k x;k;KA 'kkdh; iknik d cktkjhdj.k e lfefyr ek/;ek d iy[ku d fy, e/; in'k d eMyk] tcyij] dVuh] lruk] fNnokMk] Hkkiky rFkk lkxj ftyk e lo{k.k fd;k x;k;KA 'kkdh; ik/kk@Hkkxk d 0;kikj e lfefyr 68 0;kikfj;k d lkFk 0;kikj ij lpuk iklr dju d fy, lEid fd;k x;k;KA dPp 'kkdh; vk"K/kh; ikni Hkkxk d foØ; d eY; <kpk dk LFkkuh; 0;kikfj;k l ,df=r fd;k x;k;KA eMyk] tcyij] dVuh rFkk fNnokMk ftyk d tutkrh; xkok d cktkj fno l] tgg dPp eky dk 0;kikj rFkk ifji.k mRikn gkr g dk Hkh nkjk fd;k x;k rFkk 0;kikj ij lpuk vfhkfyf[kr dh xbA



,MkxkfQ l iuhdykVk



yhvK eØkQkbyk

ikfjr= l j{k.k ,o icU/ku



iyf[kr vk"kh; ikni] ikjifjd 'kdh;
fpfdRld rFkk 0;kikjh dk fooj.k

ftyk	iyf[kr vk"kh; ikni	ikjifjd 'kdh; fpfdRld	0;kikjh
eMyk	133	31	11
tcyij	128	38	10
dVuh	119	35	10
fNnokMk	127	30	21
l xj	&	&	02
Hkiky	&	&	07
lruk	&	&	07
diy	507	134	68

LFky nj d nkju vk"kh; iknik d mi; kx] egRo
rFkk 'kdh; vk"kh; iknik d /kkj.kh; mi; kx rFkk
mud l j{k.k d lnHk e tutkrh; yxk d ikjifjd
'kdh; fpfdRld rFkk v/; ; u {k= d xkeh.kk l
LFkuh; lEid d }kj k tkx: drk ink dh xBA

[kk l h] xjk rFkk dkjch tutkfr; k dk
ekuo&vk"kh; ; okuLifrd v/; ; u

uk xkek tl ekjdMkyk l kxbxko]
vikjhdyyk ¼dk: Ei ftyk] vle½ rFkk fifyxdKVk]
e[kyh] mEQj] ,EQuxxj] epdj] meyxij
¼jkb&Hkjb] ftyk] e?kky; ½ dk lo{k.k fd; k x; k
rFkk [kk l h] xjk rFkk dkjch tutkfr; k }kj k
vk"kh; iknik d mi; kx ij lpuk ,df=r dh xBA
vf/kdre xkeh.kk dk doj dju d fy, dN xkek e
xkeokf l; k lkenf; d gky e cBd vk; kftr dh
xBA n't Kku dh fo'kky nkyr tk yEc le; l
,df=r dh xb g rFkk ekf[kd ijij d l kFk ih<h
nj ih<h vxk c<h gA gkykfd iy[ku rFkk oreku
lpkj dh lfo/kkvk rFkk fudV e fpfdRld ; k
Qkelh dh miyC/krk dh deh u fofHkuu jkxk d
mipkj e vk"kh; ikni d mi; kx dk /khj&/khj de
dj fn; k gA v/; ; u l Kkr gvk fd vke vk"kh;
ikni tk fd ?kj k @?kj d cxhp@lmd d fdukj
ik, tkr g vHkh Hkh xkeh.kk }kj k fofHkuu jkxk d
mipkj d fy, mi; kx dh tkrh g ; gY; D/ ,
Li h j k] Dy h j k MUMku] foLdk le] ,xjkVe
dkuh tkvbfM l] lUVyk ,f'k; kfVdk] d l dVv
fjQyD l k] yUVvuk dek j k] feek l k l; fMdk bR; kfnA
dN xkeh.k tk fd ikjifjd Kku e : fp j [kr g

vk"kh; mi; kx d iknik dk ,df=r djr g rFkk
mUg viu ?kj d cxhp@vxu ; k ik= ikni d : lk
e jkfir djr g rFkk tc vko'; drk gkrh g mudk
mi; kx djr g mnkgj.k d fy, DyjkMUMe
dkyhodh,ue] ok; kQkbye fiukVe] vkj k t kbye
bfMde] ,ykoj k] ekykLVek ekykFkj hde] ih-
,Mhfj; kQkbVMk] gkAVfu; k dkjMkV k] Vehukfy; k
phcyk] flukekee Vkekyk] jkokfYQ; k liUVhuk
bR; kfnA [kk l h tutkfr e= lc/kh leL; k d mipkj
d fy, vkcjek vxLrk rFkk vk[k dk B.Mk rFkk
lkQ j[ku d fy, Fkkb l kubyk eD l hek dk mi; kx
djrgA fofHkuu ikni itkfr; k tk fofHkuu mipkj
d fy, vk"kh; d : lk e mi; kx dh tkrh g]
vfHkyf[kr dh xBA

>kj[k.M d n't ikjifjd Kku dk iy:[ku
,oi lphdj.k

Σ ouk rFkk 'kdh; if'k{k.kkfFk; k l ikni l kexh
d ,d=hdj.k d fy, g tkjhckx d lnj] pLi]
ckj dk.k] fo".kx< Cykd] yVgj fty e
ckjokgfMV] x: l Cykd] ikye fty e puij
Cykd] l kfgcxt fty d ckfj; k] cugth rFkk
ekUnk Cykd rFkk >kj[k.M d b-flg Hkfe ftyk
d MyHkex< vkj pdfy; k Cykd dk lo{k.k
fd; k x; kA

Σ >kj[k.M d fd l ku] [kkjokj] dkjekyh] fcjgkj]
lk; k igkfj; k] igfj; k] ek>h rFkk lcj
tutkrh; leg d n't ikjifjd Kku dk
v/; ; u fd; k x; kA

Σ ikni ; Fkk&ohVD l ihMudyfj l ¼ukxoy½
ghfyDVj l b l k j k ¼,UFkk½ ,fjLVkykfd; k bfMdk
¼b'ojeý½ ghfliV l ,ohvkyU l] gkih it j]
fdyk vkj dkj k; k ¼gkyjghuk ,fUVMkb l fUVDk½
dykVkf l ikdj k ¼ l Qn fdLe½ l kbi h j l
jkVUM l] bjVe dkfut kbM l vkj ,fjLVkykfd; k
bfMdk ,d=fd, x, vkj okApj ueu d : lk e
ifj j f[kr fd, x, A

Σ ckFkMh] fcjfx; k] cjgkj] phj k] dkjekyh] [kkjokj]
fd l ku] ikjfg; k] lk; k igkfj; k vkj lkj
tutkfr; k lenk; k l lcf/kr yxHkx
90 'kdh; if'k{k.kkfFk; k l vc rd mudh
chekjh d mipkj d fy, vk"kh; 'kdh d
mi; kx d lc/k e l {kkRdkj fd; k x; kA