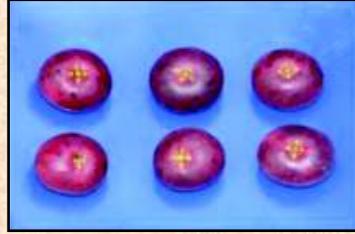


वार्षिक प्रतिवेदन

2009-2010



भारतीय वानिकी अनुसन्धान एवं शिक्षा परिषद्
(पर्यावरण एवं वन मंत्रालय, भारत सरकार की एक स्वायत्त परिषद्)
देहरादून (उत्तराखण्ड)

वार्षिक प्रतिवेदन 2009-2010



भारतीय वानिकी अनुसन्धान एवं शिक्षा परिषद्
(पर्यावरण एवं वन मंत्रालय, भारत सरकार की एक स्वायत्त परिषद्)
देहरादून (उत्तराखण्ड)

संरक्षक :

MKwXkfohn fl g jkor] Hk-o-l s
egkfun'skd
Hkjr h; okfudh vuq U/kku , oaf' k{kk i fj"kn~
ngsjknw

प्रकाशित :

ehfM; k , oaçdk'ku çHkx
foLrkj fun'skky;
Mkd?kj & U; wQkV] ngsjknw & 248006 ½mÙkj k[k. M½ Hkjr

संकलन एवं सम्पादन :

MKw j o h n z d e k j] Hk-o-l s] mi egkfun'skd ½foLrkj ½Hk-ok-v-f'k-lk-
Jh vkj-i-h fl g] Hk-o-l s] l gk- egkfun'skd ½ehfM; k , oaAdk'ku ½ Hk-ok-v-f'k-lk-
Jh j e k d k r f e J] vuq U/kku vf/kdkjh ½ehfM; k , oaAdk'ku ½ Hk-ok-v-f'k-lk-

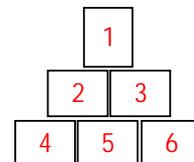
प्रसंस्करण :

Jh Mh , l - j k k . k] Q k s e s i ½ e n z k ½ ehfM; k , oaçdk'ku ½ Hk-ok-v-f'k-i-

मुद्रक : न्यू आर्ट प्रैस, देहरादून

आवरण पृष्ठ :

- 1- i w k k j {k= eacEcl k o y x f j l
- 2- x k f l i u ; k b f u M d k Q y
- 3- e g n h i k n i e a , d s k t u k V k d k i w k z f o d f l r f M E H k d
- 4- t k y j e a e # L F k y f V c c k > k V h e a d s f j l M s l M q r k
- 5- c p l k u f u ; k y a t u e a i k k ' k k y k e a v a d j . k
- 6- f o f t , u x j e t u t k f r ; k a } k j k Q k V k a , o a Q k s y k a d s f y , ç ; Q r v k t h z j ; k u o k a k & i f u k ; k a



पृष्ठ आवरण : df"okfudh ¼ k W y j & x l u k ½ i f r n ' k & o - v - l a j n g s j k n w



डॉ० गोविन्द सिंह रावत

महानिदेशक, भा.वा.अ.शि.प.
एवं कुलाधिपति व.अ.स. विश्वविद्यालय
Dr. GOVIND SINGH RAWAT
Director General, ICFRE
and Chancellor, FRI University



Hkkjrh; okfudh vuq wku , oaf'k{kk ifj"kn
%vkb, l vks 9001%2000 cekf.kr l dFkk%
(पर्यावरण एवं वन मंत्रालय, भारत सरकार की एक स्वायत्त संस्था)
पो.ऑ. न्यू फॉरेस्ट, देहरादून – 248 006
Indian Council of Forestry Research and Education
(An ISO 9001:2000 Certified Organisation)
(An autonomous body of Ministry of Environment and Forests,
Government of India)
P.O. New Forest, Dehra Dun - 248 006

प्राक्कथन

Hkkjrh; okfudh vuq wku , oaf'k{kk ifj"kn-AMk-ok-v-f'k-i-% tksi ; kbj.k , oau ea-ky; dh , d Lok; Uk 'kr'ZI dFkk g\$ n\$ k dsokfudh l d k/ukadsl rr-ççU/ku grqvudl çk\$ ksfed; kadk fodkl djusdsfy , 'k\$ k ifj ; kst uk, aysuseat w/h g\$ ifj"kn-fofHku i .k/kfj ; k; Fk&jkT ; ou fohkxj m | kxj fd l ku v\$ dny feykaj ykxkaeal e\$kr tkudkj , oal puk dsçl kj dsdk; ZeaHh t w/h g\$ vi usdk; Zdyki kai j l puk dksçkVusdsnf"Vdlsk dsl kfk ft l l sbudsgLrkUrj.k dksl dkkjuseal gk; rk feyrh g\$ ifj"kn-gj o"zkof"kd çfrou çdkf"kr djrh g\$

'kkl d e.My dh bPNk dks/; ku eaj [krsgq bl o"z l sij"kn-dk okf"kd çfrou ifj"kn-dsfo"; l eU/kh 'k\$ kads vuq kj r\$ kj fd; k x; k g\$ l kr eç; 'k\$ k {k- g\$ ft Uga32 fo"; kaemi fohkfr fd; k x; k g\$ Hkkjrh; okfudh vuq wku , oaf'k{kk ifj"kn-dh 'k\$ k ifj ; kst ukvkadksbu fo"; {k-kaeas khd r fd; k x; k g\$ bl dsvykokj jkVh; Lrj ij tfVyrk okyh egRo i wZ 'k\$ k ifj ; kst ukvkadksHkkj l jdkj l sfu/kh; u l gk; rk grqv f[ky Hkkjrh; l eflor ifj ; kst ukvkads# i eal foU; Lr fd; k x; k g\$

o"z2010 vLrjZVh; t\$fofo/krk o"zds# i eaeuk; k tk jgk g\$ rnuq kj Hkkjrh; okfudh vuq wku , oaf'k{kk ifj"kn-us vi us'k\$ k fo"; ka, oaeç; 'k\$ k {k-kaeat \$fofo/krk l jç.k.k rFkk ççU/ku dksmPp çkFfedrkh g\$

tyok; qifjorZ ds{k- ea ifj"kn-}kj fd , x , fo'k\$ ç; kl kadksn\$krsgq i wZea; w, u-, Q-l h-l h-l h- }kj vuqer bl ds i ; b\$kd Lrj dsvykok ; w, u-l h-l h-l h- }kj bl si ; b\$kd Lrj vuqer fd; k x; k g\$ Hkkjrh; okfudh vuq wku , oaf'k{kk ifj"kn- ; w, u-, Q-l h-l h-l h- dh fohkku çBdkaeavuojr Hkx ysgh gsrFkk okfudh {k- l efl/kr ufr l e>k\$ kfo'k\$kdj vkj-bZVh-Mh- ly l ds{k- eacgqW ; l g; kx mi yçk dj k jgh g\$ ifj"kn-okfudh rFkk l Ec) fo"; kads{k- eafohku vLrjZVh; epkai j Hh viuh mi flFkr ntZdj k jgh g\$

ifj"kn-us i k\$ k.kh; Hkwmi ; kx , oaf'k{kk ççU/ku&n\$ k l k>nkj dk; Døe ¼ l -, y-bz, e-&l h-i h-i h-½ ds rgr rdudh l jyhçl.k l aBu dk dk; ZHh 'k\$ fd; k g\$ i ; kbj.k ççU/ku ds{k- ea ifj"kn-usgkMts i koj] [kuu v\$ vol j puk fodkl t\$ s fohkku {k-kaealHkkj rFkk Hkwku eavudl i ; kbj.k l efl/kr v/; ; u fd , g\$

ifj"kn-us Lukrd , oalukrdk\$ kj Lrj kai j okfudh f'k{kk dks çk\$ l kfgR djusdsfy , 15 jkT; dFk fo'fofo | ky; k; l e fo'fofo | ky; ka, oadshh; fo'fofo | ky; kadks o"z2009&2010 ea 450 yk[k dk l gk; d vupku mi yçk dj k; ka ifj"kn-usbl fo"; ij i wZeatkj h exh' kZfl) kUrkadsvk/kj ij vc rd 9 fo'fofo | ky; kadsofudh i kb; Døe dkseU; rk çnku dh g\$

eq-shkkjrh; okfudh vuq wku , oaf'k{kk ifj"kn-dk okf"kd çfrou 2009&2010 tksfd ifj"kn-ds'k\$ k f'k{kk , oafolrkj dk; Zdyki kai j , d vLrn"V mi yçk djkrk gsdksçLrç djrsgq vR; Ur ç l Uurk gksjgh g\$

14 vDVçj 2010

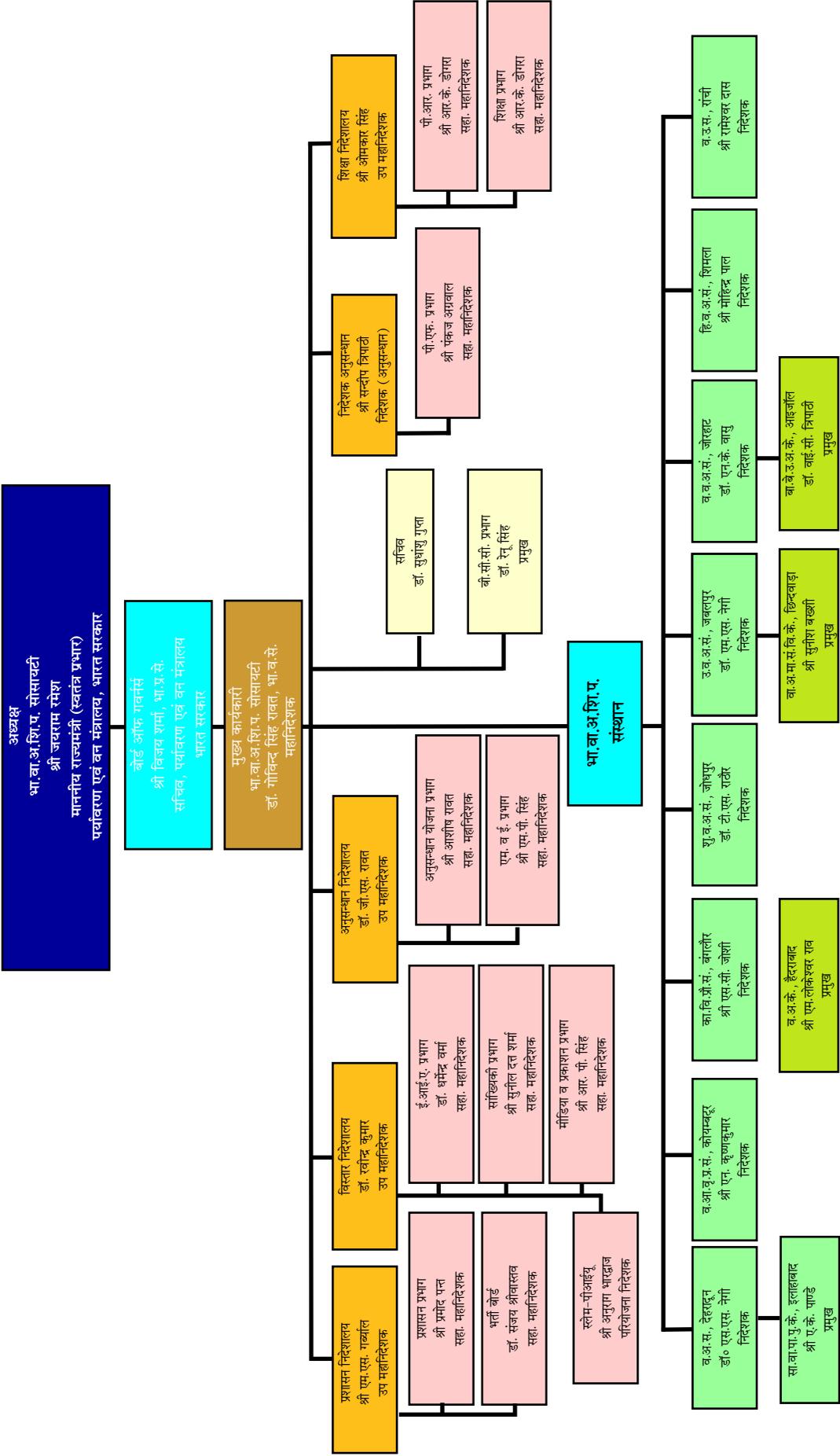
गोविन्द

(डॉ० गोविन्द सिंह रावत)

nj Hkk'k@Phones : 0135-2759382(O), 2761980(R)
PABX : 0135-2224855(O),
: 0135-2224333(FRI)

bZey@E-Mail : rawatgs@icfre.org
QDI @Fax : 0135-2755353

भारतीय वानिकी अनुसन्धान एवं शिक्षा परिषद् की संगठनात्मक संरचना



Hkkjr ds dty 32]87]263 oxZ fd-eh- ds Hk&skfyd {ks= ea 7]69]512 oxZfd-eh- vfHkfyf[kr ou {ks= g} ft l ea l s4]30]582 oxZfd-eh- vkjf{kr ou rFkk 2]06]219 oxZfd-eh- l jf{kr ou g}vls 'ksk xj oxtbdr g} nsk ea igpk fd, x, pksng Hkw/kdfrd {ks=ka ds l kfk {ks= dk fofo/k Lrj foll; kl g} Hkkjrh; ou l o{k.k dh Hkkjr dh ou fLFkr fji ks/22009 ds vuq kj Hkkjr ds dty Hk&skfyd {ks=Qy ds 23-41 çfr'kr ea ou g} ouka dk dty o/kku LVkkl ouka ds ckgj o{kka l fgr 6098-23 fefy; u ?ku eh- g}

bl çdkj ds tVvy ,oa fofo/k oura= dh l eL;k,a Hkh tVvy g} rFkk budk l keuk djus ,oa l ek/kku ds fy, uohu o{kfud l e nf"V dh vko'; drk g} ou mRikndrk dk egRo gls tkrk g} D;kad ouka dks nsk ea yxHkx 1]73]000 ou xpkad ds fuokfl ; kadksvkgkj miyC/k djkusvls xjhch de djus eabudh Hkredk ds l kfk l jf{kr fd;k tkuk g} jks.k okfudh ou mRi knkads, d oStfyid l kr ds#i eamHkj jgh g} tks l Hkor% 4000 djkm+l s vf/kd ds dty mRi knu ds l kfk yxHkx 3000 dk"B vk/kfjr m | kskadh vko'; drk/kadksi ijk djschA

gekjnsk ds l dy ?kjsymRi kn eaokfudh {ks= dk vkdfyr vâk 1% l sde dsxr vkdMkadsfoi jhr 1-7% g} fgLl seac<kr jh e[; r%oukadsckgj ouk} ouka }kjk miyC/k pkjk vls xj dk"B ou mRi knka ds }kjk l ftr vk; dsdkj.k g} ft l usou fuokfl ; karFkk vl; ou vk/kfjr l epk; kadkstfodk miyC/k djkbA Hkkjr ds Hk&skfyd {ks= dk djhc 3-4% {ks= pjkbZ rFkk pjkskxg Hkfe; kadsrgr g} tksi 'kdku dh , d vkdfyr 5]00]000 vkcknh dk l ksk.k djrh g}

oukadsçcU/k eaykskadks' kfeY djds l a Dr ou çcU/k ds }kjk ou çcU/k eaenyHkr ifjorZ vk; k g} orZku ea 4770 l a Dr ou çcU/k ifj; kst ukvkads l kfk nsk ea djhc 60]000 l a Dr ou çcU/k l fevr; k g} l a Dr ou çcU/k ds rgr i q#Ri kfnr vkdfyr {ks=

80]00]000 g}Vs j g} ouhdj.k ,oa l a Dr ou çcU/k dk; Deka ds fy, mPp mRikndrk ds xqkoUk jks.k LVkkl dh vko'; drk g}rh g} vls Hkkjrh; okfudh vuq U/kku ,oaf'k{k ifj"kn-usoukad mRi kndrk c<kus ij /; ku d}nR djusds l kfk vuokçt kfr; kaij dk; Z fd;k g} fofHku vuq U/kku ifj; kst ukvkadsrgr i nZea fodfl r l kxk} ; vlsy l v l] d}okfjuk t} h egRo i wZ çt kfr; ka ds 4000 g}Vs j cht mRi knu {ks=ka vls 114 g}Vs j dkf; d xqku m | kuka vls vl; u; h ,oa vYi Kkr o{k çt kfr; kaij uohu 'kdk} u, Dyksukadks tkjh djus ds l kfk Hkkjrh; okfudh vuq U/kku ,oa f'k{k ifj"kn- us fofHku ouhdj.k dk; Deka ds fy, xqkoUk jks.k LVkkl miyC/k djkus dh fn'kk ea vR; f/kd l g; kx fn; k g}

ikfjra= l j {k.k ,oa çcU/k ifj"kn- ds vuq U/kku dk; Deka dk , d egRo i .kZ {ks= g} ou vuq U/kku l a.Fkk ifj l j ds tyok; oh; i }kehVjka ds vfHkyS ku ds fy, ou vuq U/kku l a.Fkk] ngjknw ea vkbZ, e-Mh- }kjk vuoksnr igyk ou e} eh; çsk.kky; LFkfr fd;k x; ka ?kl tsek=k vls enk ueh çkQkby dk v/; ; u djusds fy, m" .kdfvckh; ou vuq U/kku l a.Fkk] tcyig }kjk dkgk jk"Vh; ikdZ ckU/kox<+jk"Vh; ikdZ vls ek/ko jk"Vh; ikdZ ea Lopkfy e} e LV\$ku vls dfr'k e} eh; LV\$ku dh LFkkiuk dh xbZ g} i n}k} Hkkjr ds Hk&skfyd l puk ra= vk/kfjr ou vkdMk vk/kj ds l q; ofLFkr l tu] çcU/k vls mPphdj.k ds fy, o"kZ ou vuq U/kku l a.Fkk] t}gkV ea, d Hk&skfyd l puk ra= ç.kkyh ç; kx'kkyk dh LFkkiuk dh xbZ g} i n}k} Hkkjr dh ou l ifr] en} LFkykdf r l sl e fUkr LFkyh; l puk ,oa xqkads, d vke Hk&skfyd l puk ra= ep ea, dhdr fd; k x; kA

tyok; q ifjorZ ds {ks= ea ifj"kn-e[; ky; vls bl ds l a.Fkkuka eaubZ igy dh xbZ g} ifj"kn-dk t}fofo/krk ,oa tyok; q ifjorZ çHkx tyok; q ifjorZ ij fofHku vlurjkZVh; l e>kskaea l fO; #i l s' kfeY g} ; w, u-, Q-l h-l h-l h- vls ; w, u-, Q-l h-l h-Mh- }kjk ifj"kn-dksçk'd'kçto j ½ dk Lrj Hkh çnku fd; k



x; k gA ; g l unq l sijsgsf d Hkjr dh 70% l svf/kd dh vkcknh xpkkaejgrh gsvks df'k mudk eq ; vk/kkj gsfduq; g l keld; l kp gsf d igkVh {ks= df'k dh vi\$kk okfudh ,oa vksj kfudh; dk; Zdyki ka ds fy, T; knk mi ; Dr gA igkVh {ks=kaeac<f sdf'k dk; Zdyki bl dh ikjflLFkr dh dks cjckn dj jgs gA vr%bl ckr dh rRdky vko' ; drk gsf d vuq U/kku fo' ysk.k vksj cCU/k dh bdkbz ds #i ea ikfj&{ks=ka ij /; ku dsUhr fd; k tk, A

Hkjr dks fujUrj c<rh vFk; oLFk vksj l adYi uk 2020 cR; {k #i l sckdfrd l a k/kukafo' kskdj ou ikjra=ka ij fuHk; djsch] tksuf'pr #i l sxHkhj fpurk dk fo'k; gA egk tSfofo/krk nsk gkus ds ukrs Hkjr eaou vud ikjra= l ok, ami yC/k djkrsgaft uea l svf/kdkak vkfFkd l unHkzeacgl kc gA

m".kdfVcdkh; ou vuq U/kku l LFkku] tcyig e/; Hkjr ea tyok; qifjorZ] tSfofo/krk ,oa bl ds l j{k.k] tutkr; ka, oabudsikjEifjd Kku c.kkyh ij dk; Zdj jgk gA

'khr jSxLrku {ks=kaeafofHku mi ; kskadsfy, ikni ctkr; ka ds yxkrkj fu"dkl u vksj Hke.k'kny i 'kku }kjk vfr pjkbZdsQyLo#i jSxLrkuhdj.k rFk tSfofo/krk dh {kr gBZ gA enk {kj.k ds l kFk ; g vkuo'kd {kj.k detj ikjra= dsfy, l eL; k, a [kVh djusdsvykok yskadsHkoh vkfFkd fodkl ,oadY; k.k dh l EHkouk dks vo#) dj l drk gA bu rF; ka dks /; ku ea j [krsgq fgeky; u ou vuq akku l LFkku }kjk l Hkh Lrjka ij fo'ksk ikjra= dks l jf{kr djuds; kl fd, tk jsgsrkfd fgeky; kadh tSfofo/krk dh folrr tkudkj j [kh tk l dstkl a k/kuka dksj .kulfrd #i l s ccfU/kr djuseal gk; rk djschA

ou mRikndrk l LFkku] jkph MRyE ol; tho vHk; kj.; eap; fur ctkr; kadsfy, vk/kkjHkr vkdMk l tu djus ds fy, vkdfjdh; vuqnyh foHkurk ds eW; kadu vksj ouLifr l jpuK dh ikjflLFkr dh; xfrdh l s l ecfU/kr ifj; kst ukvka dk fO; kbo; u dj jgk gA l LFkku okfudh cht cek.khdj.k , tSl h ds #i eadk; ZdjusdsmnS; dsl kFk >kj [k.M

dksvkFkd #i l segroi wZ okfudh ctkr; kadscht vkdMk vk/kkj dsl tu ij Hkh dk; Zdj jgk gA

ij & LFkku [ksh dsl j{k.k] mRiknu , oal adYi ds fy, xqkoUk jki.k inkfZ dk mRiknu djus ds nfrVdsk ds l kFk ou mRikndrk l LFkku] jkph Nks/kukxig iBkj ea vksj/kh; ikni m|ku ,oa cO/kZ dshzdh LFkku uk ij Hkh dk; Zdj jgk gA bl dsvykok bl l LFkku us >kj [k.M ds nskt vksj/kh; Kku ds cy[k&isk.k , oal phdj .k dk dk; ZHkh 'k# fd; k gA

dk"B foKku , oa cksj kfxdh l LFkku] caxys us djhc 1000 cdk"B ctkr; ka vksj dk"B fuokl h 2500 dhv/ka dks feykaj , d os vk/kkj Hkjr; dk"B dhv vkdMk vk/kkj %vkbZMcy; wvkbZ/h-% fodfl r fd; k gA

ou mRikndrk ds {ks= ea fMlykshet C; whj d h; k %; jk% dscht Hk.Mkj.k ij vl/; ; u fd, x, rkd chtka ds thoudky] vadj.k {kerk vksj vst dk eW; kadu vksj ikjEifjd Hk.Mkj.k fof/k; ka }kjk cht thoudky c<k; k tk l da isk vst rkfydk] isk xqkoUk rkfydk vksj iUk {ks=Qy rkfydk dksunZkd ds #i ea fy; k x; ka cgu; k dh rhu ctkr; ka dh vkckfn; kadk i rk yxkusdsfy, nu ?kVh] Vka ?kVh] mukjd'kh ftyk , oasuhrky vksj fi Fkskx<+ou chHkxka ea l o'k.k fd; k x; ka dk"B mRdh.ku ds fy, , d egroi wZ ctkr cDI l okfyf; kuk dsfy, vkcknh l o'k.k fd; k x; ka jkT; ou foHkxka }kjk cFkfedhr egroi wZ okfudh ctkr; kadh isk'kkyk, ayxkbZ xBh {ks= eacfrjki .k dsfy, rst of) djusokyh , oa/kheh of) djusokyh ctkr; kads isk'kad vuoqy/re vk; q dk eW; kadu fd; k x; ka p; fur Okbd l ctkr; kads vadj.k ij foHku j l k; u , oa tS&mi pjka ds chko dh ryuk dh xBh

; g i k; k x; k fd car chtkads vadj.k ds nsk ku isk'kkyk D; kfj; ka eal keld; cht cykbZ dh ctk; isk jki .k fof/k usT; knk vadj.k mRiUu fd, A l isk'kkyk/vka dh LFkku l s l ecfU/kr l jpuK ctkr djus ds fy, fgeky cnsk ou foHkx }kjk isk'kr nonkj , oacu vkd isk'kkyk/vka dk l o'k.k fd; k x; ka nonkj ea vky&jki .k rdudkadsekudhdj.k dsfy, isk'kkyk



, oa{ks= ijh{k.k r\$ kj fd, , oa i ksk.k fd; kA >kj [k.M rFk l ehi orhZjkt; ka dh p; fur c t kfr; ka ds l {ke cht l ks-ka, oa Dyksuka d k eW; ka du fd; k x; kA i ksk'kkyk rFk jki .k cclU/k nksukadsfy, dSokfjuk >@kufu; kuk g r q ifj'k) rk ou l o/kz i) fr; kafodfl r dh x bA

c; ks'kkyk eap; fur 'ka d p {ka dscht vad j .k ij o {ka rFk v/kk&forku iknikads [kji rokj] g; e l , oai .kz emg ds, syhyki sFkd cHko ij vuq U/kku fd; k x; kA ; g ik; k x; k fd g; e l ds fu {kkyrdka us ijh rjg l seny ka d j of) dks ?kV/k; k v k s gkl fd; k fdUrqpP l kUhrkvkai j vad j .k dksc<k; kA bl c d k j ; g fu'd'kz fudyk fd fo'k k iknika ds g; e l v k s i .kz emg bu 'ka d p {ka ea i p t zu vl Qyrk ds fy, mUk jnk; h gSu fd [kji rokj g s t s k vkt rd fo'okl fd; k tkrk FkA

QkeZHke [ksh dsrgr c t kfr; ka d ksvi ukusds fy, l e , oacgn c of/kz ckl kai j c g h Fk fud ijh{k.k k buds i kskd c c a k dk c z ud , oavdkc z ud d f'k fof/k; k v k s ty cclU/k fd, x, r k f d i) fr; ka d k , d c t kfr fo'k k i s t s f o d f l r fd; k tk l d a r f e y u k M q ds N% d f'k tyok; oh; {ks-ka dks 'k f e y d j d s f o f h k u l u L F k k u k a e a c k l d s e k m y j k i .k L F k k f i r f d, x, A i k s k ' k k y k i) fr; ka i j c f'k {k.k n d j , o a c n ' k z } j k k L o; a l g k; r k l e m l n l; ka d k {k e r k f u e k z k d j d s [k k | c k l c t k f r; k a , o a b u d s 0; k i k f j d j k i .k d k s c k & l k f g r d j u s d s f y, c g n c p j i k n h k o u r d u h d e a v k u & Q k e z u o h u r k d h x b A i m k k j H k j r e a j k s t x k j l ' t u , o a l e k f t d & v k f F k z d f o d k l d s f y, x q k o U k k c k l l d k / k u k a d s i k s k . k h; f o d k l d k H k h v / ; ; u f d ; k x ; k A

fd l k u k a f y, v k t h f o d k v o l j c < k u s g r q l k y k u k Q l y k a d s l k f k & l k f k i k p d f'k t y o k; o h; {ks-ka ea d f'k o k f u d h c n ' k z H k f [k.M L F k k f i r f d, x, A j k t L F k k u d s x k p g ' k z r g l h y f e y k j k j f t y k j t k s k i j e a , d f d l k u d s [k s e a, d d f'k o k f u d h e k m y e a o ' k z d s n k s k u 13-67 d q V y c f r g D V s j x s p Q l y d k m R i k n u v h k f y f [k r f d; k x; k A o ' k z o u v u d a k k u l a F k k u] t k j g k v e a i m k k j d s e n k u e u k a d h , d y k o c j h L F k k f i r

dh tk jgh gA mUrhl ou mi & l emg fdLekadks'k f e y d j d s l k r i m k k j j k t ; k a l s e n k u e u s , d f = r d j d s f o ' y s ' k r f d ; k A i m k k j j k t ; k a , o a i f ' p e c a k y d s f o f h k u m n x e l F k y k a l s p ; f u r e s y k b u k v k c j h ; k d s 119 m R d ' V D y k s u k a d k s o ' k z o u v u d a k k u l a F k k u u s , d f = r f d ; k j > e H k e d s i q #) k j i j H k h v / ; ; u f d , x , A

vku p f' k d l q k k j e a v u d U / k k u d j u s d s f y, l k s l s t ; k n k D y k s u k a d s l Q ; o f L F k r p ; u , o a c g h F k k f u d i j h { k . k a d s } j k k 0 ; k i k f j d [ksh dsfy, ; v d s y l v l d s p k j m p p m R i k n u d j u s o k y s D y k s u k a d k s t k j h f d ; k x ; k A l a j . k d k ; D e d s } j k k ; v d s i h f y v k x ; v d s ; j i k Q k b y k d s , Q 1 l a j m R i k f n r f d , x , A m l u r c h t , o a o k u l i f r d i n k f k z d s m R i k n u d s f y, c h t k s j k u , o a o k u l i f r d x q k u m | k u k a d h L F k k i u k H k h d h x b A l Q ; o f L F k r p ; u v k s c g h F k k f u d i j h { k . k d s } j k k d S o k f j u k d s p k j m p p m R i k n u o k y s D y k s u 0 ; k i k f j d [ksh dsfy, t k j h f d , x , A d S o k f j u k v d S o k - b f D o l h f V Q k s y ; k x d S o k - > @ k u f u ; k u k 1 / 2 d s v l r % , o a v l r t k z h ; l a j k a d k s m R i k f n r f d ; k x ; k A y o . k h ; l g u ' k h y r k d s f y , t b j k l k ; f u d f p g u d d h i g p k u i j d k ; z ' k f f d ; k x ; k r k f d y o . k h ; l g u ' k h y r k d s f y , t u u n 0 ; d k s J s k h d r f d ; k t k l d a

d e t k j r u k # i W s : s r u s h f } ' k k f [k r] ' k k [k k ' k a k ' k j c u r F k k ' k r ' k z H k h { k ; d s c f r v f r l o n u ' k h y r k d h l e l ; k d s l e k / k u d s f y, M S c f t z k f l l l w d s D y k s u k a d s u , l s f o d f l r f d , x , A m U k p l D y k s u k a d k s f e y k d j , d {ks= ijh{k.k L F k k f i r f d ; k x ; k A f o f h k u H k s k s y d {ks-ka l s e h f y ; k d e i k f t v k d s d y 230 d s U M M S / / k u o {k k a d k p ; u f d ; k x ; k v k s 21 l c l s m i ; D r i f j o k j k a d s e W ; k a d u i j h { k . k L F k k f i r f d , x , A o u v u d a k k u d b n z i f j l j] g s j k c k n e a e h f y ; k , t M j k d v k s e h f y ; k M f i c ; k 1 / 2 R ; d d s 10 / k u o {k k z d s l U r f r i j h { k . k L F k k f i r f d , x , A L F k k ; h R o] v u d h y u ' k h y r k , o a o f) c n ' k z d h t k p d s f y , i k s x f e ; k f i u k v k d s {ks= ijh{k.k r\$ kj fd, x, gA



xqjkr l kxks dsQy vls cht fo'kskdka dh foHkUrK , oaoakxfr dk igyh ckj v/ ; ; u fd; k x; k vls ikp vPNs l keku; l a kst dka dh igpku dh xBA , dF'k; k vkfjdfyQkMe l vls , dF'k; k efit; e dk , d xgu vkuoB'kdh l dkkj dk; De 'k# fd; k x; kA 0; ki d vkuoB'kd vk/kkj okyh ctuu vkcknh LFkfr dh xBZ vls l urfr ifj{k. kka ds }kjk o{k #i eadkQh l dkkj n[k x; kA Dyksuka@thu c#ika dh mRikndrk mit , oafodkl dks<kusdsfy, , yUFkl dh nskt ctfr eao{k l dkkj dk; De 'k# fd, x, A beyh eaHh o{k l dkkj dk; De 'k# fd, x, rikd ngyBk l e y{k. kh; ifjorU dk p; u vls l j{k.k fd; k tk l dA yky vls ehBh beyh ds tuun0; cbl dh LFkki uk djds beyh vkuoB'kd l a k/kukack l j{k.k fd; k x; kA

y{; ctfr; kads; fur mRd"V ekr xFekal s , df=r 115 ckl Dyksuka ds 188 cdUnka dks o"kkz ou vuq l/kku l hFkkuj tkgkv ea thu cbl eal jf{kr fd; k x; kA cEcl k cEckl vls MBMkdsykel FLVDVI ds Ard l o/kz i knika ds {ks= ijh{k.k Hh LFkfr fd, x, A v#fUMufj; k QkYdkV vls Fkesukdsykel LisFk"yky l ¼ gkMh ckl ½ ds ikfjLFkfrdh; egro vls l kekt d&vkfFkd ckl bxdrk dks/; ku eaj [krsgq fgeky cnsk ea budh vkckfn; ka dh igpku djus ds fy, , d l o{k.k fd; k x; kA MBMkdsykel cKfUMI h vls MBMkdsykel , Lij ds o/kz vls dukd ds dkwZftyseabu nskctfr; kadh [krh dks cKl kgr djus ds fy, dkyt vkuoB'kd QkMkVh] iksukeiV ea , d oku l ifrd o/kz dshzdH LFkki uk dh xBA

ctuu dk; De kadsfy, vkf.od y{k.k&o.kz epi vLFkfrd enyBki fuk fo'kskdka dksy{; djds l kgp; Z ekufp=.k vkcknh eavkuoB'kd l jpuK dseW; kadu ds fy, ; dFyIVI VjhfVdkfu l ds fy, l k/kkj.k vuqDe vkofuk fpgud fodfl r fd, x, A dFokfjuk ea yo.k ncko l gu'khyrk ds vkuoB'kd fu/kkj dka dh igpku djusdsfy, mPp yo.k l gu'khyrk , oal onh voLFkfvka gsrq 82 dFokfjuk bfDol hfVoksy; k Dyksuka dh tkp dh xBA bl ds vykokj vkj-, -ihMh-fpgudka dk mi ; kx djds 150 Dyksuka dks cKQkBYM fd; kA bl ds vfrjDr] dFokfjuk bfDol hfVoksy; k ds vkBZ, l-, l-vkj- ih l hvkj- mRi kn l s pkj , l-, l-vkj- y{; ctbej fodfl r fd, x, A

thu iFKDdj.k , oa dk; kRed fo'ysk.k epi ; dFyIVI VjhfVdkfu l s dkskk/kq l hFkd ds N%oxka dk cfrfuf/Ro djus okys N% cfrfyfi ; ka dk y{k.k o.kz fd; k x; kA yo.k l gu'khyrk ea 'kfeY thukadsRofjr dk; kRed fo'ysk.k dsfy,] VKUI tfud jksy tMha ds l kfk ; dFyIVI VjhfVdkfu l dEi kstV i knika ds fodkl dsfy, Økfrd iJkehVjka dh igpku dh xBA , xy ekehykd ds fouk'kd Ql y dVku dksde djus gsrq ctfr dsfy, dks'kdk l o/kz cks/kckly dk fodkl fd; k x; kA l we vls y?k dye rduhd }kjk p; fur mPp mRiknu ; dFyIVI Dyksuka dks enyBki fuk , oajki .k LVkMh mRiknu dh of) gkly dh xBA tVkoK djdl vls dKMeQkj k fo?kVh ds ik=sco/kz dsfy, vk/kkj Hh cks/kckly Hh fodfl r fd, x, A

ou ccl/k ds {ks= eajkt LFkku ds v/kz 'kqd {ks= ea0; ki kfjd #i l segRo i wko{k ctfr; kadsueWk Hkfk.M rS kj djus gsrq {ks= l o{k.k fd; k x; kA i wZ mUkj cnsk dh egRo i wko{k ctfr; kads ex&vki frZ vlrjky fo'ysk.k fd; k x; k vls v/ ; ; u ds ifj. ke foLrkj l kexh dsek/; e l sfofHku i .k/kfj; kads l fpr fd, x, A cdk"B] bZku dk"B vls ckl ka dh 0; ki kfjd #i l segRo i wZ ctfr; kads cktj dher vkqMs, d= fd, x, vls **VEcj cscw VM cySVu^ ds #i ea cdkf'kr fd; kA

ou mRikndrk c<kusdsfy, tD l puK ykxw djds l koZtfud {ks= ea miy/c thu vuqeka ds vkqMk vk/kkj ea igpk tk l drk gA ; dFyIVI ea dk"B l #i.k thuka dk n<hdj.k] Jskhdj.k vls oxhZj.k djds bl fn'kk eavxrk gkly dh tk jgh gA yky plnuka ¼ jkdki l hVfyul ½ ij vkqMk vk/kkj fodfl r fd; k x; k] tcd nonkj ¼ hM nonkj ½ dsy ¼ ikbul okfyfp; kur ½ ij vkqMk vk/kkj rFk 0; ki kfjd cdk"B l puK c.kkyh dk dk; Z cxfR ij gA ou jks foKku l xgky; dsfy, , d dEi; WjhdR vkqMk vk/kkj ds fodkl] okfudh ifjppkZ Qkge dsfy, xfrdh vkqMk vk/kkj] okfudh vuq l/kku foLrkj ds fy, os ikZy vls yk[k mRiknu ij



th-vkbZ, l-@vkj-, l- vk/kfjr l pdk ç.kkyh ij dk; Z
py jgk gA bl dsvykokl Hkkjrh; okfudh l pdk ç.kkyh
ds fodkl ds l kFk&l kFk l Hkh l b.Fkkuka ea l pdk
çkSj kSxdh l okvka dks l 'kDr ,oa ikS'kr fd;k x; kA
ifj'kn- dh osl kbV dks yxkrkj v|ru fd;k tk
jgk gA

dk"B mRi knka ea vuq U/kku dk çedk {ks-
vYi Kkr o{k çtkfr; kadk mi; kx ,oadk"B xqkka dk
eW; kadu djuk Fkk rkd bu çdk"Bka ds mi; kSxrk
ifjo/kZ dk irk yxk; k tk l dA jki .k çdk"Bkadscus
l ahr midj.k ds çn'kZ@mi; kSxrk dk eW; kadu
djusdsfy, ijh{k.k l fo/kk, afodfl r dh xBA dukZ/d
, oa egjk'V^a l s l kxkS ds o{k&oy; fo'ySk.k ij
v/; ; u fd, x,] tks ,d uohu vuq U/kku dk; Z gS
ftl us l fkk o'kZ ck<+o'kZ dhV vkØe.k] vfxu ful ku
vSj tyok; qeafjorZkadsl kFk çtkfr; kadsvuqnyu
ds tkuusdsfy, vPNh {kerk dksn'kZ kA vYVRl kSud
vSj ,Q-Vh,u-vkbZvkj- LiDVk dki h rduhd tS s
xS&fouk'kd ijh{k.k tksfd, x,] ikjEifjd ijh{k.k
çfØ; kvkadh ryuk eavYi vof/k eaçdk"B dh xqkoUk
dsvkdyu dsfy, ,d l {ke l kku fl) gsl drsgA
ikmMj ikS'V Hkxkadsfo#) çdk"BkadsfVdkÅiu ds
eW; kadu ds fy, ç; kx'kkyk ijh{k.k dh fof/k dks
ekudhr fd;k x; kA chl fofHkuk vk; kfr çdk"B
çtkfr; ka dks dodh ,oa nheada ds fo#) buds
fVdkÅiu dsfy,] eW; kadr fd;k x; kA ifj{kdka ds
mi; Dr /kj.k nsqgrqmi pkj dsfy, dfBu çtkfr; ka
dsmi pkj graqfofHkku mi pkj vf/k'kkl u fodfl r fd,
x, gA ikiyj ds 'kadu ds fy, f}Lrjh;
rkieku&fuokZ l kj.kh vSj l kxkS ds fy, ,d
f=Lrjh; rkieku fuokZ l kj.kh ou vuq U/kku l b.Fkku]
nsqjknw eafodfl r dh xBZgS ftl ds QyLo#i iWZ
fof/k; kadh ryuk eaÅtkZ vSj ykx dh cpr gpZgA
, d dloS j çV ekØkoc 'kad ç.kkyh dh jpuk dh
xbZ vSj dk"B foKku ,oaçkSj kSxdh l b.Fkku eaLFkki uk
djds ekudhr fd;k x; kA xly dk"B dsl kFk fofHkku
fdLe ds TokbUV+ dh jpuk djds l akkj l keF; Z ds
fy, ijhf[kr fd; kA dkye vk/kkj] che@culs@dMh vSj
Nr V1 dksfeykdj isy <kp ç.kkyh dks vfhkdfyir
fd;k x; kA xly çdk"B dk mi; kx djds ?kj ds

l jpukRed ekMly dk vkj[k.k ,oafueZk fd;k x; kA
ou vuq U/kku l b.Fkku] nsqjknw eaçdk"B vfhk; k=dh
l xgky; dsNr V1 st jhis j] iSvax djdsnçkj [kMk
fd;k x; kA

vdk"B ou mi t ou mRi knka ea0; kikj
dk ,d cgr egRoikZ?kVd cukrsgA Hkkjrh; okfudh
vuq U/kku ,oaf'k{k ifj'kn-dsfofHkku l b.Fkkukads }kjk
l o{k.k ij dSnr djds vSj/kh; iknikaij vuq U/kku]
tS [krh çkSj kSxdh dk fodkl] mi; kSxrk ifjof/kZ
çfØ; kvkadsfodkl l fgr bl ds Ql yki jkr çØe.k]
tS l fØ; eW; kadu] çkdfrd çtkfr; ka ds l kFk ou
l ef) dj.k ds }kjk iSk.kh; ççak vSj l d kku fodkl
fd;k x; kA ou; [kk] ,oa vlu; mi; ksch vdk"B ou
mitka ds jkl k; fud çkØkbfyax ij dSnr djds
vuq U/kku v/; ; u fd, x, A ol h; rskadsjkl k; fud
fo'ySk.k l fgr o{k tfur rky chtkaij Hkh vuq U/kku
fd;k x; kA fofHkku jkT; ka ea tVtØk djdl ds
fofHkku mnxeLFkyka, oaDykasadsjk'Vh; xqku ijh{k.k
fd, x, A fofHkku xS çdk"B ou mRi knkadk jkl k; fud
fo'ySk.k fd;k x; k rkd buds0; kifjd mi; kx ds
fy, çfØ; k, afodfl r dh tk l dA vSj/kh; iknika
l fgr fofHkku xS çdk"B ou mRi kn çtkfr; kadsjki .k
inFkZmxkdj budh [krh dksçkBl kfr djusdsfy,
fd l kukaevki firZdh xBA

ou j {k.k ds {ks- eajk'Vh; ou dhV l xg.k ds
dEl; Wjhdj.k ds fy, ,e-, l-&, -l h-l hbZ, l-, l- ea
vkpMk vk/kkj fodfl r fd;k x; kA foKku dsfy, u,
ds#i eablchjVM+ dh 13 ubZ çtkfr vSj ,d u,
thul dk o.ku fd;k x; kA Dykasads tS jkl k; fud
vSj Hkxrd çdfr ds fo'ySk.k ds }kjk Nky
l ikjd Nnd] bUMjcsyk DokfMukS/kvk ds fo#)
dSokfjuk bfDo l hfVQkfy; k ds p; fur Dykas ea
l kiSk çfrjSk dh igpu dh xBA bl ds vykokl
19 ifjnk d ,oa 11 dk"B Nnd çtkfr; k;
fo'kk[kki VVue clnjxkg dsfy, u, l #ikr ikBZxbZ
vSj buea l s, utryM gkb/MkbMh vki j dnyV l
WtMoS½ vSj ekMyl d fl Okufj; k bQ-
dij phusul l jho Hkkj l sigyh ckj vfhkfyf [kr fd,
x, A ,d dk"B Nnd xSvki kM] Fkbl CysuQkMZ
Vehyfoy½ iWZ rV ds l kFk&l kFk ifjnk d teko l s





igyh ckj vfHkyf[kr fd;k x; kA ikmMj vls no nkska #ika ea^i LV LVSV** uke l sehVkjfgft; e vk/kfjr dod dhVuk'kd mRikn fodfl r fd;k x;k vls ; g tkjh djusvks {ks= eami ; ks dsfy, r\$ kj gA

jkska dk v/; ; u djrs le; l oguh Eykfu mRilu djus okys 9; ut\$; e l ksykuh ds fo#) MScftz k fl LI wdsjks tud vls ykHkdkih thok.kq cfrjkskth , oal onsh Dyksukadh igpku dh xBA xSkMekZ dh nks ctkfr; k xSkMekZ j\$ l us h; e vls xSkMekZ ohchfj, ue] dksl xg.k l siFkd fd;k x; kA xSkMekZ ohchfj, ue Hkjr dsfy, u; k vfHky\$ k gA bDdkou vkbZVh, l- vupe t\$icd] 1/2 b c\$ k\$ xdh l puk ds fy, jkVh; dshz; ; w, l, - dks cLr fd;k x; k vls , u-l hch-vkbZ os l kbv ea tkjh fd;k x; kA Hk.Mkfjr vksV/kh; ikni mRikn eafodr dod dh of) , oavd\$.k dls jksduseaf l Vksuhyk r\$ y] ygl q r\$ y] yeu?kl r\$ vls vtokbu r\$ dsok'i 'kny cHko dks l Qyrki dL LFkfr fd;k x; kA enkl jksxLr ikni Hkxkavls iUkV Vguh , oa ik\$ 'kh.k\$ k l s l \$fer l \$ki .k\$ jklr i d \$jks l pd ; d\$ y l V l ikni uewka l s l hf y U M R D y s M ; e f Dou Dohl h l V je ds Mh, u-, fu" d" k dsfy, c\$ k\$ k\$ k\$ ka dsekudhdj .k dsmi jklr uskfud fdV fodfl r dh xBz tksjks tud dh igpku eavls jks dh Hko"; ok.kh djusdsfy, l gk; d gkskA

fgeky; u ?kl LFkyka ds dkmh\$ l l kbu\$ l l dod dsfofHku vkb l k\$ l ds th l dks foLrkfjr] vupefer djds, u-l hch-vkbZ dks cLr fd;k vls , DI s u l \$; k, avk\$ vr dh xBA c\$ kufu; k y\$ tu dh ik\$ kkykva ea 9; ut\$; e vkDI hLi kje } jk mRilu Eykfu jks dks fu; h=r fd; kA dk"B {k; dkjh dod dspkj o\$ k vls l kr ctkfr; k l ky , oachtkl ky Hk.Mkfjr dk"B ij igyh ckj vfHkyf[kr dh xBA jktLFku ea egnh vls v'oxdk ea ikp v\$ d\$ y j ekbdkj kb ty dodh o\$ k vls Xyke l dh 11 ctkfr; ka dks vfHkyf[kr fd;k x; kA egnh e\$ vl; mi pkjka dh r\$ y uk ea ikni of) vls vkt dks l \$ k j us ea Xyke l Q\$ l d\$ y s e l o\$ ke ik; k x; kA tcf d v'oxdk dsekeys ea Xyke l , x\$ x\$ e dh c\$ k kurk ds l kfk nskt fefjr l \$ k\$; l Hk of) i \$ keh V j k ds fy, l o\$ ke ik; k x; kA

t\$fofo/krk vls tyok; q ifjorZ ds {ks= eaHkjr; okfudh vuq Uku , oaf'k{k ifj"kn-bl fo'k; ij etcir idM+dsl kfk {ks= eavxnr gA xr o"z ds n\$ ku Hkjr; okfudh vuq Uku , oaf'k{k ifj"kn- } jk o"z ou jk"V vls [k] , oa d\$ k l xBu] fodkl 'kny n\$ k dk; De 1/4 w, u-& v k j - b \$ M h - M h - 1/2 e\$ fuoZhdj .k , oaou fuEuhdj .k l smRI t\$ de djusij l a \$ r j k"V l g; ks dk; De dsl g; ks l s" j k"V h; ou l p h % x \$ & v u q) i n s k ^ f o ' k ; i j , d v l r j k z V h ; dk; Z k y k 1/27 l s 29 v \$ y 2009 1/2 dk vk; kst u fd; k x; kA ifj"kn-ds, d cfrfuf/ke.My us, l -ch, l -Vh, - vls , l -ch-vkbZ ds rjgoal =] , -Mcy; wth-&, y-l h, - ds nbsl = vls , - Mcy; wth-& dsi h-dsvkBoal = eacku] teZ h eaHkx fy; kA bl us*ckl h\$ y k u k tyok; qifjorZ ifjppk^ 1/2 l s 6 uoEj 2009 1/2 eaHk Hkx fy; kA ifj"kn-dks j\$ xLrkuhdj .k jksdusdsfy, l a \$ r j k"V l Eesy 1/4 w, u-l h-l h-Mh-1/2 } jk k ^ c \$ k d L r j ^ H k h c n k u f d ; k x ; k g A i f j " k n - u s d k i s g x u] M s e k d z e a 1/7 l s 18 f n l E c j 2009 1/2 D ; k s / k s c \$ k / k d k n y e a i k f V z ; k a d h 5 o h a c B d @ ; w, u-, Q-l h-l h-l h- eai k f V z ; k d s i U n g o a l E e s y u e a H k x f y ; k A b u i g y w k a d k s n \$ k u s o k y s i f j " k n - d s t \$ f o f o / k r k , o a t y o k ; q i f j o r Z c H k x } j k k 5 l s 9 v D V r j 2009 r d e [; k y ;] n s j k n w e a * d k z i f k D d j . k ^ i j o \$ k f u d k a , o a v f / k d k f j ; k a d s f y , i k p f n o l h ; c f ' k { k . k i k B ; D e d k v k ; k s t u f d ; k x ; k A i f j " k n - o u h d j . k @ i q u b u h d j . k l h M h , e - i f j ; k s t u k d s { k s = e a ; w, u-, Q-l h-l h-l h- d s u k f e r i f j p k y u l U k k 1/4 M h - v k b Z 1/2 d k L r j c k r d j u s d s f y , v R ; f / k d c ; k l j r g A

ou l k\$ [; dh ds {ks= ea ifj"kn-us vxLr 2009 ea jkVh; r\$y cht , oa ouLifr r\$y fodkl 1/4 k\$ k\$ 1/2 c\$ k\$ z } jk k c k ; k \$ t r i f j ; k s t u k ^ H k j r e a o \$ k t f u r r \$ y c h t k a i j , d v k d M h - v k / k j d k f o d k l ^ ' k \$ d h g A v k b Z V h - V h - v k s } j k k c k ; k \$ t r i f j ; k s t u k ^ H k j r e a m " . k d f V c k h ; c d k " B , o a v l ; o k f u d h i \$ k e h V j k a l s l a f l / k r l k \$ [; d h d s l x g . k] c \$ e . k , o a c l k j d k s l j y c u k u s d s f y , , d u s / o d z d h L F k k i u k ^ H k h o " z d s n \$ k u i j h d h x B A f } o " k z Q k y l V h L V S V f L V D I



bafM; k ds nls vad 2005 vls 2007 vls
fVEcj@cEciwVSM cnyfVu dsnlsvad] ,d frekgh
¼vad l a58] ekpZ2009½vls , d v) ðkfkZl ¼vad l a59]
t w 2009½çdkf'kr fd, x, A ifj"kn-i; kbj.k ,oaou
ea=ky; vls vlrjkZVh; m".kdfVcdkh; çdk" B l aBu
¼/kbZVh-Vh-vks½ ds fy, l a ðr ou {ks= ç'ukofy; k;
miyC/k dj k jgk gS vls ; g ekx ij vflre
mi; ksdriZ/ka ; Fkk&dñh; l ka[; dh; l aBu]
i; kbj.k ,oa ou ea=ky; rFkk vl; i.k/kkfj; ka dh
l ka[; dh; vko'; drkvladkshh ij dh jgh gA

i fj"kn-i ; kbj.kh; çHkko eW; kadu ds(ks= ea
fodkl kRed ifj; kst ukvka dk i; kbj.kh; çHkko eW; kadu
v/; ; u dj jgh gA bl usgkbMki koj] [kuu vls vl;
fodkl {ks=ka ds {ks= ea xr o"ka ds nlsku
~ 239-13 yk[k dh pkj ifj; kst ukvka dk dke ij k fd; ka
ifj"kn-dksbl vof/k dsnl sku ~ 244-02 yk[k ds N%u,
dUl YV&UI t Hh çnku dh xbZgA

Hkkjrh; okfudh vuq U/kku ,oaf'k{k ifj"kn-dks
i; kbj.k ,oa ou ia=ky;] Hkkjrh l jdkj vls fo'o
i; kbj.k l fpo/kk ¼t h-bZ, Q-½ dk , d l a ðr miØe
i ksk.kh; Hkfe ,oai kfjra= çca k&n's k fgLI snkj h
dk; Øe ¼, l -, y-bZ, e-&l h-i h-i h-½ ds vlr xZ
**Hkkjrh ea i ksk.kh; Hkfe ,oai kfjra= çca k dse[; /kkjk ea
ykusvls Åij mBlusdsfy, ulfr ,oal l Fkkxr l dkj
fo" k; ij , d ifj; kst uk nh xbZgA ; g dk; Øe l a ðr
jk"va fodkl dk; Øe [kk] ,oadf'k l aBu vls fo'o
cfd dh l gk; rk l sl kr ifj; kst ukvka dks feyk dj cuk gS
ft l sn'sk dsnl jkT; ka eadk; kZlor fd; k tk jgk gA bu
ifj; kst ukvka ds fy, rduhdh l jyh dj.k l aBu
¼/h, Q-vks½ ifj"kn-eadk; j r gA

, d i klyj vk/kkfjrh dfr okfudh ifj; kst uk
**l enk; vk/kkfjrh l eflor ou çCU/ku ,oa
ou l j {k.k ; kst uk ft l sfcgkj ifj; kst uk uke l s
tkuk tkrk gS ifj"kn-}kjk fcgkj ds oskkyh ftys ea
dk; kZlor dh tk jgh gA fofHku çtkfr; ka ds djhc
59 yk[k ikni ¼ klyj ds 47 yk[k ikni ka l fgr½fcgkj
dsoSkkyh ftys ea 1396 xkpkads djhc 61000 fd l kuka ea
eqr eaclv/sx, A

vuadka igpku dh xbZçtkfr; ka; Fkk&tVRQk]
i klyj] d'okfjuk] 'kh'ke] ckl] l ky vkfn vls fofHku
mHkj jgsokfudh fo" k; ka; Fkk& ; d'sy l l] xky] okLi ds
t'odh; fu; æ.k] vkuo'ka'kd l dkj vls o{k l dkj
j.kulfr; k bZku dk"B mi ; kx vkfn ds l ek/kku dsfy,
3 l s5 o"Z dh vof/k dsfy, ~ 115-62 djkm+dsvkd fy
çtV ds l kfk ifj"kn-l l Fkkuka }kjk çLr l =g vf[ky
Hkkjrh; l eflor ifj; kst ukvka dh foLrr ifj; kst uk
fj i k/ka dks l d fy dj ds vflre #i fn; k x; k vls
; kst uk vk; kx dsek/; e l s/ku dh 0; oLFkk djus ds
fy, i; kbj.k ,oaou ea=ky; dksçLr fd; k x; ka

i fj"kn-n'sk eaokfudh f'k{k dksçLl kgr djus
ds fy, fo'of o|ky; ka dks l gk; d vupku miyC/k
dj k jgh gA ifj"kn- us foLrh; o"Z 2009&2010 ea
15 fo'of o|ky; ka dks 450 yk[k dk vupku fn; ka

i; kbj.k ,oaou ea=ky; }kjk Hk-o-l s dse/;
dsj; j ç'k{k.k dh ifj; kst uk dksçfr; ksch çfØ; k ds
ckn vflre #i fn; k x; k] ft l eai fj"kn-dksQst & III ¼
l s9 o"Z dh l ok ds vf/kdkj½ dsfy, ç'k{k.k fn; k
x; k gA ifj; kst uk dh dy ykxr rhu o"Z dh vof/k ds
fy, ~ 5-89 djkm+gA ifj; kst uk 14 fnl Ecj 2009 l s
'k# gkspdh gA 2001&2002 çp ds Hk-o-l s vf/kdkfj; ka
dsfy, igyk ç'k{k.k i k B; Øe 14 fnl Ecj 2009 l s
20 ekpZ 2010 rd l Eilu gpkA dy feyk dj l EiwZ
n'sk l s 59 l gHkfx; ka us Hkx fy; ka dk; Øe dk
mn?kVv 14 fnl Ecj 2009 dks MKW i h-ts fnyhi d'ekj]
Hk-o-l s egkfun'skd ¼ou½ vls fo'ksk l fpo] Hkkjrh
l jdkj }kjk vkbZvkBZ, e- vgenkckn ea fd; k x; ka
dk; Øe ds, d Hkx #i eal gHkfx; ka dks 30&30 dscç
ea ; w, l - ¼cklyj/ks LVS/ ; fuofl ¼h½ vls LoHMu
¼LoHMu'k ; fuofl ¼h vkW, xbdYpj l kbd s ½ystk; k
x; ka ; g dk; Øe viuh rjg dk igyk gS ft l s
Hkkjrh; okfudh vuq U/kku ,oaf'k{k ifj"kn-Hkkjrh; ou
l l Fkk] Hkkjrh; ou l o' vkbZvkBZ, e-, - vls fonskh
i kVZj tS svuadka aBuka }kjk l a ðr #i l s Hk-o-l s
vf/kdkfj; ka ds {kerk fueZk ea vxZ kh ç; kl ds #i ea
dgk tk l drk gA

विषय सूची

अध्याय	पृष्ठसंख्या
1- ङLrkouk	1&3
2- vuq U/kku eq[; kã k	5&119
2-1 i kfj rã I j{k.k , oa ङcU/k	11&31
2-2 ou mRi kndrk	32&59
2-3 vkuφã' kdh I qkkj	60&81
2-4 ou ङcU/k	82&83
2-5 dk"B mi t	84&89
2-6 vdk"B , oa ou mi t	90&97
2-7 ou j{k.k	98&119
3- f' k{k k I an' kZ	121&140
4- foLrkj i fj n' ;	141&170
5- ङ' kkl u , oa I upuk ङkS kf x dh	171&178
6- i j hf{kr okf" kZd ys[kk	179&202
i fj f' k"V	203&212
1- vkj -Vh-vkbZ	203&205
2- b&esy vkj Mkd i rk	206&208
3- 'kCn I qksi I ph	209&212

Hkkj rh; okfudh vud U/kku , oa f'k{k k i fj"kn} tksjk"Vh; okfudh vud U/kku ræ ea, d 'kr'kz I ðFkk gš okfudh ds I Hkh igyq/ka ij vud U/kku] f'k{k vkš foLrkj dh vko'; drk vk/kkfjr vk; kst uk] çk&l kgu] I pkyu , oal elb; u djdsokLrfod fodkl dj jgh gð i fj"kn-fo'o fpurkvkætš styok; qifjorZu] tšodh; fofokrk dk I j{k.k.jšxLrkuhdj.k dks jkuduk vkš I ð k/kuka dk išk.kh; çcU/k , oa fodkl I fgr I ðVj eamHkj jgsfo"ka ds vudh I ek/kku vk/kkfjr okfudh vud ðkku djrh gð i fj"kn- }kjk fd; k x; k vk/kqud 'kšk çkdfrd I ð kku çcU/k I s I æfU/kr pqr; ka dk I Qyrki ð I pkyu djus dsfy, ou çcU/kolka, oa'kškçkFkz, ka dh {kerk eayškadso'okl dks c<krk gð

y{; dFku

vud U/kku] f'k{k vkš foLrkj }kjk I rr-vk/kkj ij ouka I s I æfU/kr I eL; kvka dks fui Vkus vkš yšçk ouka, oai; kbj.k dschp ikjLifjd fØ; k I smRiUu gksus okys I gkuçkka dks çk&l kgr djus dsfy, tkudkjhl çkš kšxfd; ka, oal ek/kkukadsl ftr jf{kr} çl kfjr , oa mlur djuka

I ðYi uk

jk"Vh; okfudh dkjzkbz dk; ðe vkš jk"Vh; okfudh vud U/kku ; kst uk ds ifjpkjuh; dj.k }kjk oukoj.k eaof) djuk vkš ou mRi kndrk c<kuka

i fj"kn-dsmnš ;

- okfudh vud U/kku , oaf'k{k bl ds vud; kx ds fy, I gk; rk vkš çk&l kgu nsuk rFkk I elb; u djuka
- okfudh rFkk vU; I Ec) foKkukadsfy, jk"Vh; ou i qrdky; , oa I puk dšnz dks fodfl r djuk vkš ml dk j [k&j] kko djuka

- ouka vkš ol; çk.f.k; ka I s I æfU/kr I keU; I puk vkš vud U/kku dsfy, , d forj.k dšnz ds#i eadk; Zdjuka
- okfudh foLrkj dk; ðeka dks fodfl r djuk rFkk mlga tu I pki] JO; &n' ; ek; eka vkš foLrkj e'khujh }kjk çl kfjr djuka
- okfudh vud U/kku] f'k{k vkš I Ec) foKkukads {k= eai jke'kzI ok, açnku djuka
- mi; ðr mnš; ka dh i frZ dsfy, vU; I Hkh vko'; d dk; Zdjuka

I ðFkk vkš dšnz

Hkkj rh; okfudh vud U/kku , oaf'k{k i fj"kn-ds nsjknw eae; ky; I fgr vkB vud U/kku I ðFkk vkš pkj vud U/kku dšnz gš tks okfudh vud U/kku] f'k{k vkš foLrkj ešenn djus dsfy, ns'k Hkj eaQšsgg gð

ou vud U/kku I ðFkk] tks nsjknw ea fLfr gš dh jk"Vh; , oa vUrzVh; #i ea okfudh foKku ds {k= eavxz.kh I ðFkk dh [; kfr gš vkš bl ds dk; ðyki mlkj[k.M] mlkj çnšk] gfj; k.k] iækc] fnYyh vkš p.Mhx<+A ðk {k=½jkt; kaeadšnr gð ; g I ðFkk i ðZbeifj; y ou vud U/kku I ðFkk }kjk fd, x, okfudh vud U/kku dh mPp ijEijk dks vxsc<k jgk gð ; g ou I Eo/kz] i kfjLfrdh] jkx foKku] dh/ foKku] j I k; u foKku] vdk"b ou mi t] vkuqð'kdh vkš o{k çtuu rFkk ou enk , oa Hkæ I ðkj tš s okfudh dsfoHku fo"ka; kai j 'kšk dj jgk gð foKku ds {k= eamUfr dsoržku ifjn"; dksnçkrsgg I ðFkk us nks vkš fo"ka; ka dks 'kfe y fd; k gš ; Fk&t yok; q ifjorZu , oaou çHko çHkx rFkk tš I puk dšnz , oa th-vkbz, I - çdksBA I ðFkk ea vud U/kku ea I gk; rk nsš dsfy, ifj"dr , oa vk/kqud mi dj.k ds I kFk mRd"V ç; kx'kkyk I fp/kk, agð I ðFkk dk jk"Vh; ou



I ६Fkkukj dšlnka vksj muds vf/kdkj {ks= dks i nf' kr djrk ekupf=



i ६rdky; I ६puk dšlnz djhc nksyk[k i ६rdkads I kfk okfudh I ६Fkkukæansk dk I cl scMk-okfudh i ६rdky; gSvksj ;g okfudh rFk I Ec) fo'k; ka ij 114 fonšk , oa 110 Hkkjrh; if=dk, a exkrk gš ou vud U'kku I ६Fkkuk] nsjknw dks ekuo I d kku fodkl eæky;] Hkkjr I jdkj] ubZfnYyh }kjk **I e fo'ofok | ky; ^ dk ntkZHk çnku fd; k x; k gš I ६Fkkuk dk i ६hzmÜkj çnsk ea vud U'kku vko'; drkva dks ijyk djus ds fy, bykgkckn ea I kelftd okfudh ,oa ikfj&i ६LFkkfir dšlnzgš

ou vkuo ६' kdh , oao{k ç tuu I ६Fkkuk] dks EcVij , d jk'vh; I ६Fkkuk gS vksj bl ds

dk; žyki rfeyukMq, oadjy jkT; kæadšlnr gš bl I ६Fkkuk dks 1959 I sdk; žr ou vud žkku I ६Fkkuk , oa egkfo | ky; dsrgr dk; ždj jgsou vud žkku dšlnž dks EcVij dk mPphdj.k djds cuk; k x; kA I ६Fkkuk vkuo ६' kdh , oa o{k ç tuu] ikni tš çkš kšxdh okfudh] Hkæ mi; kš vksj tyok; q ifjorž] cht çkš kšxdh ou j{k.k] tšfofo/krk] tšimžk.k vkn tš okfudh dsfofHku igy ६' ka ij vud U'kku dšlnr dj jgk gš I ६Fkkuk ea Mh-, u.- fQaxjçæVax ç; kš'kkyk] thukšDI ç; kš'kkyk] ikni jk; u ç; kš'kkyk] vkuo ६' kd #i kUrj.k ç; kš'kkyk vksj Ård I ६/kž ç; kš'kkyk gš I ६Fkkuk ds dšy ea oky; kj rFkk iukeiYy] rfeyukMq ea d#.; k uxj] HkFkž; kj



fo'ofok; ijfij ohjkiUMH d#EckiVVH xhkyij] pblubz ea {ks= bdkb; k; Hh gA I hFkku 1911 eaLFkfir nsk dsl cl sigkus ouLifr l azgky; ea ls, d dk j [kj [kko djrk gA nsk ea l cl sigkuk ou l azgky; 1906 ea LFkfir xkl ou l azgky; ea okfudh , oa ou; tho l sl efu/kr 4500 cns'kla dk i sk.k fd; k x; k gA I hFkku ea, d okuLifrd m | ku Hh gsf t l schW sud xMzU dUtjoshku buVjuskuy 1/2h-th-l-h-vkbZ/2 vls bfUM; u cW sud xMzU us/odZ 1/4/kbZch-th, l -1/2 }kj ekU; rk nh xbzgA bl sij&LFkku I j{k.k dk; Zyki kaea l gk; rk nussdsfy, 3-7 gDVs j {ks= ea1973 eaLFkfir fd; k x; k FkA

dk"B foKku , oa cks| kfxdh I hFkku] caxyks , dj kVh; I hFkku gA ; g dk"B foKku , oa cks| kfxdh ij vuq U/kku djrk gA bl ds dk; Zyki dukW/d] vku/kz cns'k vls xkok jkT; ka ea dshnr gA miyC/k fo'kskKrk vls fd, x, l g; kx ij fopkj djrs gq Hkjr h; okfudh vuq U/kku , oa f'k{k ij "kn~ us I hFkku dksdk"B dsmlur mi ; kx] dPN ouLifr , oa rVh; ikjflLFkfrdh vls plhu ij vuq U/kku ds {ks= ea *mlur v/; ; u dsfy, dshnz^ dk ntkzcnku fd; k gA I hFkku dk mnas; bl rjg l s dk"B vls vl; ou mRi knkadsmi ; kx , oamRi knu dsfy, , d h j . kulfr ; k; fodfl r djuk gsf tks budh vki firZ dks cuk, j [ka xkVVi jk vls uYyky ea {ks= LVSkuka ds l kfk fo'kk [kkiVVue ea , d l eprV c; kx'kkyk vls gshjkcn eaou vuq U/kku dshnzbl I hFkku dshkx gA

m". kdfVca/kh; ou vuq U/kku I hFkku] tcyij dh xrfrof/k; k; e/; Hkjr ds jkT; ka ; Fk&e/; cns'k NUnh x<f egkj"v^ vls mMH k ea dshnr gA ; g I hFkku vdk"B ou mit] [kfu {ks=ka vls vl; nckoxLr LFkyka ds i qokl] df"kokfudh ekMykaefodkl , oacn'ku] jki .k LVkly I qkj] i sk. kh; ou cCU/k] tsofofo/krk I j{k.k vls ou jkx , oa uk'kthokadsfu; a.k ij vuq U/kku djrk gA I hFkku

vi usou foKku dshkadsek/; e l sfoLrkj xrfrof/k; ka eal fO; #i l s'krfey gA okfudh vuq alku , oaekuo l a k/ku fodkl dshnz fNmokMk tsofofo/krk I j{k.k] vdk"B ou mit] ou j{k.k] ou l o/ku , oao{k l qkj tS sfo'kskhd'r {ks=kaevuq U/kku djusdsfy, , d dshnz ds#i eavflRro eavk; kA

o"kkz ou vuq U/kku I hFkku] tkjgkV dks vuq U/kku] f'k{k vls folrkj ds }kj okfudh l s l efu/kr l eL; kvkai j tkudkj dh folrkj djusvls fl dde l fgr i dkkj jkT; kadk okfudh vuq U/kku ea l gk; rk djusdsmnas; dsl kfk 1988 eaLFkfir fd; k x; kA ; g I hFkku >e [ksh dsrgr fuEuhdr Hkrie; kads i q#) kj dsfy, I j{k.k fof/k; k; l kemf; d ouka ds cCU/k] i k j & i q#) kj dsfy, {ks= dh vuq e fojkl r ds ifjj{k.k] vls ikjflLFkfrdh; y{k.ka dks {kfr igpk, fcuk ckl vls car dscgq {k; mi ; kx ij /; ku dshnr dj jgk gA gky gh eaxfBr ckl vls car dsfy, mlur vuq U/kku dshnz tso"kkz ou vuq alku I hFkku dk dshnz gsf fo'kskdj ckl vls carsaj vuq U/kku l eL; kvkads l ek/kku dsfy, cuk gA

'kd' ou vuq U/kku I hFkku] tskij dh xrfrof/k; k; jkT LFkku] xqfjkr vls nknj , oa ukxj gosh ea dshnr gA I hFkku tsofofo/krk I j{k.k gqg Hk&mRi kndrk , oa ouLifr vkoj .k eaof) djusdsfy, vls vlure mi Hk&rkv kags cks| kfxfd; k; fodfl r djus dsfy, okfudh , oa l Ec) {ks=kaevuq alku djrk gA I hFkku dscq[krk okys {ks=kaea' krfey gSenk] ty vls i ksd cCU/k nckoxLr LFkyka ds ouhdj .k ds fy, cks| kfxfd; k; jki .kadk cCU/k of) vls mRi knu ekMyfak] jki .k LVkly I qkj] tso&mojd vls tso&ihMel uk'kh] df"kokfudh] l a q' ou cCU/k] vls folrkj] ikni j l k; u , oaxs & cdk"B ou mRi kn , dhdr uk'kh tho , oajkx cCU/k rFk okfudh f'k{k , oafolrkjA

fgeky; u ou vuq U/kku I hFkku] f'keyk dksf Yoj Qj vls Lcu dscdkfrd iqtZu ds l kfk l Ec) l eL; kvkai j vuq alku djusdsmnas; ds



I kfk ebZ 1977 ea mPp Lrjh; 'kæp{k iqtZu vud U/kku dshz ds#i eaLFkfir fd;k x;k FkA ;g I ÆFku 'kæp{kjh rFk mPp Åpközokys iFk. khZouka ds iqtZu vS igkfm+ka ea df'kokfudh i)fr;ka ij v/; ;u ds vykok 'khr jSxLrkuka ds ikj&iqokl] [kfr {ks=ka ds l qk] dhVuk'ktho , oajks çHkx vS çcl/k ij dshz vud U/kku dsl kfk tEewo d'ehj rFk fgekpy çnsk dh vko'; drkva dks ijk djus ds fy, 1987 Is ifj'kn~ dk ,d Hkx gA I ÆFku ds ikl vud U/kku ,oa ç'k{k.k dk; Øeka dks djus ds fy, ç;ks'kkyk iqrdky;] I xgky;] iSk'kkykva ,oa çk; kSxd {ks=ka dh iwZfodfl r vol jpuK gA I ÆFku dks bu dfBu LFkyka ds ikj&iq#)kj ea mlur vud U/kku djus ds fy, ifj'kn~ }jk **khr jSxLrku ouhdj.k ,oapjxkg çcl/k dsfy, mlur dshz^ ds#i

ea Hkx ?kS'kr fd;k x;k gA Vks vS ykgy&flir ½g-ç-½ ea fLFkr vud U/kku LV\$ku 'khr jSxLrkuka dh fo'kSk vud U/kku vko'; drkva dks ijk djrk gS vS I ÆFku 'khr?k gh {ks= vud U/kku LV\$ku] yg ½tEewo d'ehj½l sviuk vud U/kku I Upkyu 'k# djskA

ou mRi kndrk I ÆFku] jkph nSk ds iohZ {ks=k; Fk&fcgkj] >kj [k.M o if'pe cakj jkT; ea okfudh vud U/kku ,oa f'k{k dks I f=r I Upkyr I æfBr vS çclU/kr djus ds mnS; dsl kfk 1993 ea vflRro ea vk; kA jkT; vud U/kku vko'; drkva dks ijk djus vS foLrkj dk; Zdyki ka dsfy, I ÆFku ds ou vud U/kku dshz elnkj] jkph i ; kbj.kh; vud U/kku LV\$ku] I qulj if'pe cakj vS ou vud U/kku ,oa foLrkj dshz i Vukj fcgkj gA



अनुसन्धान मुख्यांश



çLrkouk

Hkkjrh; okfudh vuq U/kku ,oa f'k{k ifj"kn-
ed; ky; eavud U/kku funskky; ifj"kn-ds l Hkh vkB
l ÆFkkukavkš pkj dñhkaeokfudh vuq U/kku dh ; kst uk
lelo; u vkš ekuhVju rFkk fofHku vuq U/kku
ifj; kst ukvka dh çxfr dk eiv; kadu djrk gA ifj"kn-
tšfofo/krk l j{k.k vkš tyok; qifjorū çHkkx ds
ek/; e l s fofHku epka ij vürjkZVh; l ki kud ea
tšfofo/krk l j{k.k vkš tyok; qifjorū ea l eL; kvka
dk l ek/kku djrh gsvkš bl {ks= eajk"V^a dk çrfuf/ko
djrh gA

tšfofo/krk l j{k.k vkš tyok; q
ifjorū çHkkx tyok; qifjorū , oal æfU/kr okfudh
fo"k; kaij iWZ l fØ; jgk gA ; g çHkkx ou vf/kdkfj; ka
vkš vl; i.k/kfj; ka dsfy, tyok; qifjorū] LoPN
fodkl çfØ; k ¼ h-Mh, e-½ vkš okfudh ij fofHku
jk"Vh; , oavürjkZVh; dk; Zkkyk, a, oaçf'k{k.k dk; Øeka
dksvk; kštr djds {kerk fueZk dk; Øekaeal fØ; # i
l stv/k gA çHkkx okfudh , oatyok; qifjorū l æfU/kr
ulfr fo"k; kaij dk; Zdj jgk gSft l l styok; qifjorū
ij l a Ør jk"V^a # i jš{k l e>kš k ¼ w, u-, Q-l h-l h-l h-½
dsvürxZ vürjkZVh; l e>kš sgq gA

; g çHkkx i; kbj.k , oa ou eæky; Hkkj r
l jdkj dks**tyok; qifjorū ij okfudh mi l eiv
ij rdudh fuosk miyC/k dj k jgk gS vkš
; w, u-, Q-l h-l h-l h- eansk dsçLrørdj.k dsfodkl dh
fn'kk eal g; kx dj jgk gA

Hkkjrh; okfudh vuq U/kku ,oa f'k{k ifj"kn-
}kjk jšxLrkuhdj.k tyok; qifjorū vkš okfudh ds
{ks= eafd, x, dk; Zdkseku; rk nšsgq jšxLrkuhdj.k
jksdus ds fy, l a Ør jk"V^a l e>kš k
¼ w, u-, Q-l h-l h-Mh-½ vkš tyok; qifjorū ij l a Ør
jk"V^a # i jš{k l e>kš k ¼ w, u-, Q-l h-l h-l h-½ }kjk ifj"kn-
dks**çškd Lrj[^] çnku fd; k x; k gA ifj"kn-us18 l s
29 vDVWj 2010 rd ukxš k] vkbph çhQDpj] tki ku
eal EiUu gksusokys l hch-Mh- çBd dsfy, l h-vksi h-&10
ea**çškd Lrj[^] çklr djusdsfy, Hkh vkonu fd; k gA

l Hkh l gk; d nLrkost ka ds l kFk çR; k; u dsfy, , d
çkFkZki = ekpZ2010 ea l hch-Mh- l fpoky; dksçLrø
fd; k x; kA

tšfofo/krk l j{k.k vkš tyok; q ifjorū
çHkkx us tšodh; fof/krk l e>kš k ¼ hch-Mh-½ }kjk
fn, x, ^vkØked ckjgh çtkfr^fo"k; dsrgr 22 ebZ
2009 dks tšfofo/krk dsfy, vürjkZVh; fnol ds
mRl o ij ifj"kn-dh, d fjikšZdks l æfy dj rš kj
fd; k vkš l hch-Mh- l fpoky;] ekšV^a, y] dukMk Hkst us
dsfy, i; kbj.k , oaou eæky; dksçLrø fd; kA

tšfofo/krk l j{k.k , oatyok; qifjorū çHkkx
us tyok; q ifjorū l s l æfU/kr rhu ckj l s
l gk; rk&çklr ifj; kst uk, ayh gS%

i. o"Z 1995&2007 vof/k dsfy, Hkkj r dh
ou enk ea enk dkcZu LVkVd , oa xfrdh
dk eiv; kadu% ifj; kst uk dks /ku ; w, u-Mh-i h&
thbZ, Q- }kjk fn; k x; k gA ifj; kst uk dk; Zdyki
foujku bUVjuškuy bBM; k ds ek/; e l s bl dh
ifj; kst uk **; w, u-, Q-l h-l h-l h- dsfy, Hkkj r ds
f}rh; jk"Vh; l pkj dh rš kjh gšqdk; Zdyki dks
l {ke cukuk ds vürxZ i; kbj.k , oaou eæky;]
Hkkj r l jdkj }kjk ifj"kn-dksmi l Æonk ij fn, x,
gA ifj"kn-Hkkjrh; l mjj l Øsh l ÆFku] nšjknw ds
l g; kx l s ifj; kst uk dk fu"iknu dj jgh gA
ifj"kn-dstšfofo/krk l j{k.k , oatyok; qifjorū
i Hkkx ¼ch-l h-l h-½ tš ifj"kn-ds {ks=h; l ÆFkuka, oa
l g; kšx; ka ds l kFk l pkj dk dñz fcUnq gš us
ifj; kst uk l s l æfU/kr l Hkh dk; Zdyki ka dks "kš
fd; k gA

ifj; kst uk dk; Zdyki ka dks el kš k väre fjikšZ
foujku bUVjuškuy bBM; k] ubZfnYyh dks iLrø
dj nhxbZgA

ii. Hkkj r eavkorZ l gpjrk vkš l h-Mh-, e- {kerk
v/; ; ukadk mi ; kx dj ds ou dkcZu fofue;
dh eki % ; g ifj; kst uk Mhi kVebV vñD QkV
l kba , .M jhl kš Æt+¼Mh-vkbZ, l -, -, Q-vkj-vkbZ½



; fuofl /h vkuD rfil dk %Vyhi/ Hkjr; I mij l osh l hFku] Hkjr; okfudh vuq U/kku , oaf'k{k ifj"kn- vls mUkj[k.M ou foHkx ds chp , d l k>nkjh v/; ; u gA bl ifj; kst uk ds rgr Hkjr; okfudh vuq U/kku , oaf'k{k ifj"kn- ds tsofofo/krk l j{k.k , oatyok; qifjorZu cHkx dks l hMh , e- okfudh ifj; kst uk dsfy , i kBoe fodkl vls okfudh {ks= ea l hMh , e- {kerk v/; ; u dh dk; Zl k k x ; k gA

iii. Hkjr ea ou vls ou mRi knka dh rgyuk ea tyok; q ifjorZu fpUrkvka ds l ek/kku ds fy , vuq U/kku vko' ; drk , a vls foUkh;] cks] kfxdh; , oa {kerk vko' ; drk , a rFk ncko% ; g ifj; kst uk fuEu rhu mnas ; ka ds l kFk foujkk blUjuskuy baM ; k dsek ; e l si ; kbj.k , oa ou ea-ky ;] Hkjr ljdkj }kjk ifj"kn- dks mil fonk ij nh xbZgS%

- Hkjr dsokfudh {ks= eavuphyu , oal ; whdj.k l s l afU/kr tkudkj dsorZku Lrj ij , d nifVdsk miyC/k djuka
- ouka ds fy , vuphyu , oal ; whdj.k igyuka l s l afU/kr vuq U/kku dk ; blyki ka dks djus ds fy , vlrjky , oanckokadh igpku djuka
- ouka ds vuphyu , oal ; whdj.k igyuka ds fy , fo'ksk vuq U/kku fo'k ; kavls cLrkokadh igpku , oa fodkl djuka

tsofofo/krk , oatyok ; q ifjorZu cHkx] Hkjr; okfudh vuq U/kku , oaf'k{k ifj"kn- us tsofofo/krk l j{k.k , oatyok ; qifjorZu dh l eL ; kvkads l ek/kku ds fy , vuslka vyi , oanh?kZkyhu uhfr dk ; DekadH Hh 'ka#vkr dh gA

vuq U/kku ; kst uk cHkx] vuq alku funskky ; ifj"kn- ds ; kst uk fu/kf ; r okfudh ifj ; kst ukvka dh vk ; kst uk] l whdj.k vls vfUre #i nsusdk dke djrk gA ; g vk/kfjr] ikjn'kZ vls l ghkxh , cnp viukdj i.k/kfj ; ka dh cBd] cR ; d l hFku ea vuq alku l ykgdkj l emg cBdka vls ifj"kn-eq ; ky ; ea jk'Vh ; Lrj ij vuq U/kku uhfr l febr dh cBdka dk l elb ; u

djrk gA ; g ikp o'kZ jkSyx lyku ds rgr tkjh ifj ; kst ukvka dk i qj jh{k.k Hh djrk gA

o'Z 2009&2010 ds nlsku bl cHkx }kjk fuEu miyC/k ; k gkfl y dh xbZ%

- ifj"kn- l hFkuka }kjk cLrkfor u ; h vuq U/kku ifj ; kst ukvka dh Lohdr grqfopkj djus dsfy , uhpsmfYyf [kr frfFk ; ka ij l hFku Lrj ij vkb ifj"kn- l hFkuka ea l s cR ; d dh vuq U/kku l ykgdkj l emg dh cBd cgykbZxbZ%

o-vk-o-c- l a dks EcVij	& 16 vls	17 uo-	2009
m-o-v-l a tcyij	& 14 vls	15 fnl -	2009
o-m-l a jkph	& 07 vls	08 fnl -	2009
'kep-v-l a tskij	& 21 vls	22 fnl -	2009
dk-fo-csl a cxyks	& 07 vls	08 fnl -	2009
fg-o-v-l a f'keyk	& 23 vls	24 uo-	2009
o-v-l a nsjknw	& 17 vls	18 uo-	2009
o-o-v-l a tkjgkV	& 26 vls	27 uo-	2009

vuq U/kku l ykgdkj l emg dh v/ ; {krk l aU/kh l hFkuka ds dk ; Zks= ea vkus okys jkT ; ka ds c/kku eq ; ou l j{kdk}kjk dh xbA bl eafofHku Lrj ds okfudk ou vf/kdfj ; ka fofHku i.k/kfj ; ka ; Fk&x] ljdkj l aBu] m] lskh cxf'r'khy fd l kuka vls fo'fofo/ky ; ka us Hkx fy ; kA ifj ; kst ukvka dks nks fo'k ; fo'kskkajQjh }kjk eV ; kdr fd ; k x ; k vls rnuq kj miHkDrk l emg dh vko' ; drk ds vu#i ifj ; kst ukvka ds ifjLdr fd ; k x ; kA

- ifj"kn- ds v/khu vkb vuq U/kku l hFkuka }kjk cLrkfor u , vuq U/kku cLrkokadksvfUre Lohdr ds fy , MkWth , l - jkor] egkfunskd] Hkjr; okfudh vuq U/kku , oaf'k{k ifj"kn-dh v/ ; {krk eafnuka 22 l s 24 Qjoh 2010 rd cgykbZxbZvuq U/kku uhfr l febr dh cBd ds l ek vuq U/kku l ykgdkj l emg }kjk Lohdr ifj ; kst ukvka ds j [kk x ; kA
- X ; kjgohavud U/kku uhfr l febr dh cBd ds nlsku vuq U/kku uhfr l febr l nL ; ka }kjk 201 ubZ



ifj; kstuvka vls 2 vf[ky Hkjr; l eflor
 ifj; kstuvka ij pplz dh xbz ftlea l s
 137 ifj; kstuvka dks ~1478-16 yk[k jk'k ds
 Hkjr; okfudh vud U'kku , oaf'k{k ifj'kn-fu/kh; u
 ds }kjk l hFkku Lrj ij Lohdr fd; k x; kA nks
 vf[ky Hkjr; l eflor ifj; kstuvka ds fy, Hh
 fl) kurr% Lohdr nh xba fji k/kzku vof/k ds
 nksku l hFkkuokj Lohdr ubz vud U'kku
 ifj; kstuvkadk l kj uhsfn, vud kj g%

ubz ifj; kstuvka dh Lohdr; ka dk l kj

l hFkku dk uke	ifj; kstuvka dh l a; k	Lohdr dny jk'k 1/2 yk[k ea
fg-o-v-l a f'keyk	3	32-17
o-m-l a jkph	7	87-19
m-o-v-l a tcyig	15	108-93
dkfo-clsl a cayls	17	194-19
o-o-v-l a tkjgV	14	144-34
o-v-l a nsjknw	45	413-72
o-vko-izl a dks EcVij	29	314-06
'kep-v-l a tskig	7	183-55
; kx	137	~1478-16

- MW th, l- jkor] egkfunskd] Hkjr; okfudh vud U'kku , oaf'k{k ifj'kn- dh v/; {krk ea 25 fl rEcj 2009 dks ifj'kn-eq; ky; ds ce. My d{k eafun'kdka dh pksfn cBd dk vk; kst u fd; k x; kA funskdka dh cBd dk vk; kst u dN egRo iwZfo'k; ka ij fopkj djus ds fy, fd; k x; kj ftl ds fy, dk; jkph dks vflu #i l hFkku ka ds funskdka ds l kfk ijke 'kz djs fofHku funskky; ka }kjk fn; k x; kA
- X; kj jkT; ka; Fk& tEwo d'ehj] iatkc] gfj; k. k] fgekpy cnsk] mUkjk[k.M] mUkj cnsk] fcgkj] e/; cnsk] NUKhI x<+ jktLFkku] vls xqjkr dh vud U'kku , oafodkl vko'; drkva dks ijk djus ds fy, jk'Vh; ckl fe'ku] df'k ea-ky;] Hkjr l jdkj }kjk Hkjr; okfudh vud U'kku , oaf'k{k ifj'kn- dks ckl rduhdh l gk; rk l eoy 1/2 h-Vh, l- th-1/2 ds #i ea ekU; rk nh xbz gS rkfd jk'Vh; ckl fe'ku ds dk; Deka ds dk; kUo; u dks

l jy cuk; k tk l da ckl rduhdh l gk; rk l eoy & Hkjr; okfudh vud U'kku , oaf'k{k ifj'kn- tcyig 2007 l s vflrRo ea vk; kA ckl rduhdh l gk; rk l eoy ds dk; Deka ka ea'kkfey gA fd l kuka vls dk; Deka ka ds fy, l feukjka, oaf'k{k. kka dk vk; kst u] ckl l kfgR; dk cdk'ku rFk vU; ckl l kgu vfhk; kuA

2009&2010 ds nksku] ckl rduhdh l gk; rk l eoy vls Hkjr; okfudh vud U'kku , oaf'k{k ifj'kn-us jk; ou fohkxk ds dk; Deka ka vls fd l kuka ds fy, fuEu ikp fnol h; cf'k{k. k dk; Deka dk vk; kst u fd; kA

- 1- m'.kdfVcdk; ou vud U'kku l hFkku] tcyig }kjk e/; cnsk ds fy, 7 l s11 fl rEcj 2009 rdA
 - 2- ou mRikndrk l hFkku] jkph }kjk NUKhI x<+ ds fy, 14 l s18 fl rEcj 2009 rdA
 - 3- fgekpy; u ou vud U'kku l hFkku] f'keyk }kjk fgekpy cnsk ds fy, 26 l s30 vDVij 2009 rdA
 - 4- 'kqd ou vud U'kku l hFkku] tskig }kjk xqjkr ds fy, 5 l s9 vDVij 2009 rdA
 - 5- 'kqd ou vud U'kku l hFkku] tskig }kjk jktLFkku ds fy, 26 l s30 vDVij 2009 rdA
 - 6- ou mRikndrk l hFkku] jkph }kjk fcgkj ds fy, 9 l s13 uoEcj 2009 rdA
 - 7- m'.kdfVcdk; ou vud U'kku l hFkku] tcyig }kjk NUKhI x<+ ds fy, 7 l s11 fl rEcj 2009 rdA
 - 8- ou vud U'kku l hFkku] nsjknw }kjk iatkc ds fy, 8 l s12 Qojh 2010 rdA
 - 9- ou vud U'kku l hFkku] nsjknw }kjk iatkc ds fy, 8 l s12 ekpZ 2010 rdA
- cf'k{k. k dk; Deka dks vk; kst r djus ds fy, jk'Vh; ckl fe'ku] jkT; ckl fe'ku] vls ifj'kn- l hFkku ka ea fu%kqd forj.k ds fy, **ckl vkt h fodk dk , d l k/ku^ 'kr'kd l sfglnh i kVj dh 10]000 cfr; ka dk i qzqz k fd; k x; kA uhsfn Lrj dsi .k/kfj; ka evkx s forj.k ds fy, l gknj l aBuka, oa jkT; ou vud U'kku l hFkku ka ea h forj.k fd; k x; kA
- **u, o{k fdLeka, oa Dyks ka ds i jh{k.k , oafuepru ds fy, ekxh'ku^ ds vud kj nsk Hkjr ea okfudh



I DVj ea, d l eku vk/kkj ij mRd"V fdLeKa, oa Dykskadsiat hdj.k dks l aFkkRed cukusdsfy, 'kR"Z l aFkk& fdLe fueDru l febr 1/2oh-vkj-l h-1/2dk xBu fd; k x; kA egkfun'skd] ou , oaf' ksk l fpoj Hkkjr l jdkj] i; kRkj.k , oaou ea=ky; rFkk egkfun'skd] Hkkjrh; okfudh vud U/kku , oaf' k'kk ifj"kn~0e' k% oh-vkj-l h- dsv/; {k rFkk l g&v/; {k gA

oh-vkj-l h- dh igyh cBd 19 tuojh 2010 dks i; kRj.k , oaou ea=ky;] ubZfnYyh eal Eilu gDZft l ea t;gkZ2009 eaou vkuDf'kdh , oaf'k ctuu l aFkku] dks EcVij }kjk cLRr "fdLe fueDru cLRko 2009" ij fopkj fd; k x; k vks u, m | e ds# i eaou vkuDf'kdh , oa o'k ctuu l aFkku] dks EcVij }kjk fodfl r ; vdsyIVI deYMfyuf l 1/2rfeyukMq vks vkU/kZ cnsk ea [ksh dsfy, vkbZ, Q-th-Vh-ch&bZl h- 1] vkbZ, Q-th-Vh-ch&bZl h- 2] vkbZ, Q-th-Vh-ch&bZl h- 3 vks vkbZ, Q-th-Vh-ch&bZl h- 4&04 1/2 vks d'okfjuk b'fDofl fVQkfy; k 1/2rfeyukMq dukU/d vks i kMpgj h l ak {k= ea [ksh dsfy, vkbZ, Q-th-Vh-ch&l h-bZ 1] vkbZ, Q-th-Vh-ch&l h-bZ 2] vkbZ, Q-th-Vh-ch&l h-bZ 3 vks vkbZ, Q-th-Vh-ch&l h-bZ 4&04 1/2 dksmRd"V cfof"V dks tkjh fd; k x; kA

- o"Z2002 l s2007 vof/k dsfy, i kbyV vk/kkj ij pkj l aFkkuk; Fkk&ou vud U/kku l aFkku] nsjknw('kD ou vud U/kku l aFkku] tskij(o"Z ou vud U/kku l aFkku] tskgkV vks ou vkuDf'kdh , oa o'k ctuu l aFkku] dks EcVij vks , d dshz ; Fkk&ou vud U/kku dshz gshjckn 1/2dk"B foKku , oa cks ksfxdh l aFkku] caxk dsrg 1/2eaipo"khz, i qjh{k.k fd; k x; kA ipo"khz i qjh{k.k nyka }kjk cLRr fji kZ/k dk fo'ysk.k djds vko'; d fun'k tkjh fd, x, A
- jk"Vh; ou vkuDf'kdh l a k/ku C; ij ks dh LFkki uk l sl afU/kr fo"K; kai j fopkj fd; k x; k vks fopkj dsfy, l a k/kr cLRko i; kRj.k , oa ou ea=ky; dks cLRr fd; k x; kA

vudJo.k , oa eW; kadu cHkkx ifj"kn~l aFkkuka dh l Hk tkjh vud U/kku ifj; kst ukvka dk i qjh{k.k

djrk gSvks mnas; kadksvFkZ wZ#i l sglf l y djus vks l e; ij ijk djusdsfy, l a k/krRed mik; kadk l o-ko nrk gA vud U/kku dh xqkoUk ea l a k/kr vks fodfl r cks ksfxd; kadksi . k/kfj; ka eagLRkUrfjr djus dsfy, Lora= fo"K; fo'kskKka@vfhkdj.kkadsek/; e l s ifj"kn~l aFkkuka dh dN vud U/kku ifj; kst ukvka dk Lora= eW; kdu Hk fd; k x; kA

tkjh vud U/kku ifj; kst ukvka dk mfpr dk; kRo; u l fuf'pr djus ds fy, fun'skka }kjk frekgh cxf r i qjh{k.k }kjk frekgh vk/kkj ij vud U/kku ifj; kst ukvka dh cxf r dk ekuhVju fd; k x; kA bl ds ckn] cR; d frekgh dsfy, vud U/kku ifj; kst ukvka dh cxf r ij fofgr Okes/ eal p uk bl cHkkx dks l aFkku }kjk cLRr dh xbA Lohdr dk; Z; kst uk ds vud kj frekgh cxf r fji kZ dh tkp dh xbZ vks ifj; kst uk mnas; ka dks ijk djus ds fy, HkRd , oa foUk; miyfC/k; kadksrst djusdsfy, l a k/krRed mik; kadk l o-ko fn; k x; kA

o"Z2009&2010 dsn'sku l Hk ifj"kn~l aFkkuka dh 328 1/229 Hk-ok-v-f'k-i- lyku fu/kf;r vks ckgj l gk; rk ckr 1/2 tkjh vud U/kku ifj; kst ukvka dks i qjh{k.k , oa eW; kad r fd; k x; kA l Hk l aFkkuka dh vud U/kku ifj; kst ukvka dk i qjh{k.k 1/4 kj.kh ds vud kj 1/2 vDVu; 2009 ea ijk fd; k x; kA fji kZ ea csk. kai j vuDhZ dkj dkbZ djusdsfy, fnl Ecj 2009 rd ifj"kn~ l aFkkuka ds fun'skka dks l kykuk i qjh{k.k fji kZ l fpr dh xbA

Lora= ckg; eW; kadu ckgj l s Lora= fo"K; fo'kskKka@vfhkdj.kka ds }kjk cR; d l aFkku dh 22 ; knfPNd #i l s p; fur ifj; kst ukvka dks fd; k x; kA

o"Z2009&2010 dsn'sku d; 76 ifj; kst uk, ai jh dh xbA budh i fj; kst uk l eki u fji kZ ckr dh vks tkp dh xbA o"Z2009&2010 dsn'sku l kj.kh ds vud kj i qjh{k.k l aFkkuokj vud U/kku ifj; kst uk, a bl cdkj gS%



o"kl 2009&2010 ds nksjku i qjhf{kr l dFkkuokj tkjh vuq U/kku ifj; kst uk, a

Ø- l a	l dFkku dk uke	i qjhf{k.k dh rkjh[k	i qjhf{kr tkjh ifj; kst ukvka dh l a		
			Hkk-ok-v-f' k-i- fu/khf; r	bZ, -i-h-	; ksx
1-	'kep-v-l a tskig	26 vls 27 ebZ 2009	16	9	25
2-	m-o-v-l a tcyig ,oa ok-v-ek-l fo-ds fNUnokMk	24 ls 26 tm 2009	13	17	30
3-	o-vk-o-c-l a dks EcVij	9 ls 11 tykbZ 2009	32	11	43
4-	dk-fo-csl a cakvls ,oa o-v-ds gshjckn	13 ls 15 tykbZ 2009	32	15	47
5-	o-v-l a nsjknm ,oa l-kok-i-ep-ds bykgckn	11 ls 13 vls 17 vxLr 2009	94	30	124
6-	Ok-o-v-l a tsgkV	1 ls 3 fl rEcj 2009	9	8	17
7-	o-m-l a jkph	4 ls 6 fl rEcj 2009	16	2	18
8-	fg-o-v-l a f'keyk	12 vls 13 fl rEcj 2009	17	7	24
			229	99	328

ifj; kst uk l =hdj.k çHkx % ; g çHkx igpku fd, x, çed[krk okys (ks-kaevud U/kku ifj; kst ukvka ds l =hdj.k vls foHku jkVh; ,oa vUrjkZVh; nkrk , tSUI ; kaemudh fu/kh; u ulfr; kaevud kj fu/kh; u dsfy, budsçLrfrdj.k gsrq ifj "kn-l dFkku@dshka vls l {kenrk , tSUI ; ka ds chp l gk; d ds #i ea yxkrkj dk; Z dj jgk gA bl çHkx us ifj "kn-l dFkku@dshka }kjk vuq U/kku ifj; kst ukvka ds dk; kBo; u dks l eflor Hkh fd; k vls LVs/l fjiKZ r\$kj djds Lohdr] çLrnf iwkZ vls fujLr ifj; kst ukvka ds vfHky[k dk j [kj [kko fd; kA

; g çHkx ifj; kst uk fu/kh; u dsfy, jkVh; ,oavUrjkZVh; nkrk , tSUI ; ka ds l kFk l g; ksx dj jgk gA o"kl ds nksjku jkVh; nkrk , tSUI ; ka }kjk Lohdr ~ 37-22 djkm+dh 106 ifj; kst ukvka vls vUrjkZVh; nkrk , tSUI ; ka }kjk Lohdr ~ 4-07 djkm+ dh 10 ifj; kst ukvka ds ifj "kn-dsvkB l dFkku vls pkj dshkaeadk; kZlor fd; k tk jgk gA

rfeyuMqeaue ¼ st smjDVk bMdk% i ke ¼ i kaefe; k fi lukV½ vls , yD tSUI² u ykky ¼ dsykOkbye vkbuOkbye½ dsfy, jsi.k LVkkl l dkj vls çn'ku(^>kj [k.M ds d"kd l epk; ka ,oa vLre miHkDrkvkaeaue vls djat çed[k o{k tfur

rsyadh çkSj ksdh; uohurkvadk çl kj** vls ** kqd {ks- ds x\$ & [kk | rsy chtkadk Ql ykijkr çDe.k* t\$ s ifj; kst uk çLrkoka dks budh Lohdr ds fy, çOfer fd; k x; k vls ukokM cM/Z dks mudh o{k tfur rsy chtkads, dhdR fodkl ij Ldhe dsrgr folkh; l gk; rk dsfy, çLrnf fd; k x; kA

nks vls çLrkoka **mlur co2 vls xky okLi çfrjksk dsçHko ds vuqfyu dsfy, ; dsfy/l dk fpgud l gk; rk çkr p; u** vls **rst of) djusokys OkbykMl , dfl ; kt ds l dkj dsfy, vf[ky Hkjr; l eflor dk; De^ dksi ; kbj.k ,oaou ea-ky; ds ek/; e l s l h, l-vkZvkj-vls vLVfy; k vls vkZVh-Vh-vls tkiku dksçLrnf fd; k x; kA

**nl jkT; ka ea xjhch de djus dsfy, l epk; **vk/kfjr iksk.kh; çkdrd l a k/ku çcUk ij , d ifj; kst uk l adYi uk uk/ Hkjr ds; kst uk vk; ksx ds ek/; e l sfu/kh; u dsfy, i ; kbj.k ,oaou ea-ky; dks çLrnf fd; kA

xjhch de djus dsfy, okfudh vuq U/kku l gk; rk ij , d ifj; kst uk fo'o çd ds ek/; e l s fu/kh; u dsfy, çLrnf dh xbA

**mukjh fcgkj dsp; fur ftykaevLr%Fkyh; tykOkur {ks-ka ds mi pkj dsfy, ou l o/ku@dFk ou



I a/lku ekMy dk fodkl] eW; kaou , oa ekudhdj.k^ ifj; kstuk çLrko mi ; Ør fu/kh; u , tSUI ; ka dsek/; e l s fuf/k dh 0; oLFkk djus ds fy, i ; kbj.k , oa ou ea=ky; dksçLrnf fd; kA

Hkkjrh; okfudh vuq U/kku , oa f'k{k ifj"kn- l a.Fkkuka dh lg; ksh ifj; kstukvka@dk; Øeka ds dk; kzo; u dsfy, l e>ks'k i=ka , oa vuq; aka dh tkp djds vflre #i fn; k vksj l {ke çk/kdkjh dh Lohdfr ; Fkk&(i) vkbZ, Q-, l-] LohMu] (ii) l h-, l -vkbZvkj-vksj vLVSy; k vksj (iii) vkbZVh-l h-vkj- , M Mh- l SVj gñjckn dsl kfk ou vkuqf'kdh , oao{k çtuu l a.Fkkuka] dks EcVij dsl e>ks'k i= vksj jk-o-fo-] xqjkr dsl kfk 'kqd ou vuq U/kku l a.Fkkuka] tskij dsl e>ks'k i= dh Lohdfr dsfy, çfØ; k dh xba

vf[ky Hkkjrh; l eflor ifj; kstukvka dks l akks/kr fd; k x; k vksj ifj"kn-l a.Fkkuka}kjk çLrnf ifj; kstukvka dks vko'; d Lohdfr , oafolkh; l gk; rk dsfy, tkpdj vflre #i fn; k vksj çØfer fd; k x; kA vudka igpku dh xbZçtkfr; kamngj.k tVROK] i kMyj] dSokfjuk] 'kh'ke] cka] l ky vksj foHkuu mHkj jgs okfudh fo"ka; ka ; Fkk& ; wdsy lVI xky okLi dk tsofd; fu; a.k] vkuqf'kd l Hkkj vksj o{k l Hkkj j.kulfr; kj baku dk'B mi ; kstu vkfn dsl ek/kku ds fy, 3 l s 5 o"lz dh vof/k gsrq 115-61 djkm+ ds vkdfyr ctV ds l kfk 17 vf[ky Hkkjrh; l eflor ifj; kstukvka dh foLrnf ifj; kstuk fji k/k dks l adfyr vksj vflre #i fn; k rFkk ; kstuk vk; kx ds tfj, fuf/k; ka dh 0; oLFkk djus ds fy, i ; kbj.k , oa ou ea=ky; dksçLrnf fd; k x; kA

, d i kMyj vk/kfjr d'kokfudh ifj; kstuk l eqk; vk/kfjr l eflor ou çclUku , oa ou l j{k.k ; kstuk 10st & i] ft l sfcgkj ifj; kstuk ds #i ea tkuk tkrk gñ ou mRikndrk l a.Fkkuka dsrgr ou vuq U/kku , oafolkj dñh iVuk dsek/; e l s ffcgkj ds oSkkyh ftyseai fj"kn-}kjk dk; kLor fd; k x; kA ifj; kstuk dk fu"iknu fd l kuka dks çf'k{k.k] rduhdh l gk; rk vksj xqkoUk jks .k LVkMl miyC/k dj k dj fd; k x; kA bl ea fd l ku@gkbZVsd i kSk'kkykvka vksj çn'kz Hkkj.k.Mka dh

LFkkiuk djuk 'kfeY gA ifj; kstuk ds rgr djhc 47 yk[k i kMyj iknika vksj vU; çtkfr; ka ; Fkk&l kxks] egksuh] xEgkj] dne] l ey] tkeq] vtz vksj dVgy vkfn ds 12 yk[k i kSkka dk fd l kuka }kjk vius [ks'kaejksi .k fd; k x; k vksj ekpZ2011 rd fd l kuka ds [ks'kaei kMyj ds 14 yk[k i kni kavksj vU; çtkfr; kads3 yk[k i kni kadsjksi r djus dk çLrko gA

fd l ku i kSk'kkykvka ea fd l kuka }kjk i kMyj ikni yxk, x, A fd l kuka dks i kMyj dh dyea vksj rduhdh l gk; rk miyC/k djkbZxbA fd l kuka }kjk bl çdkj mRiknr i kMyj ds vPNh xqkoUk ds i kni kads ~ 5@& çfr ikni dh nj l sou vuq U/kku , oafolkj dñh }kjk oki l [kjhk x; kA bu ikni kads fd l kuka ea fu%kq d forfjr fd; k x; k vksj fd l kuka us bl gavi us [ks'kaejksi r fd; kA

fd l kuka ds çf'k{k.k ds l aU/k ea oSkkyh ea tkrnk çf'k{k.k dñh ea vc rd 1561 fd l kuka dks çjff{kr fd; k x; kA fd l kuka dks muds l aU/kr xkpkaea Hkh çf'k{k.k fn; k x; k vksj vc rd dgy 3568 fd l kuka dks çf'k{k.k fd; k x; kA **çf'k{kdkadsçf'k{k.k^ dk; Øe ds rgr 314 çf'k{kdkadsçf'k{k.k fd; k x; k] ft l ea fcgkj ou foHkkx ds 231 deçkfr; kadh çf'k{k.k 'kfeY gA l Qy ekMyka ds Hke.k gsrq fd l kuka ds fy, f'k{k Hke.k dh 0; oLFkk dh xbZ vksj ou çf'k{k.k vdkneh] gY}kuh ds fy, fd l kuka ds 39 Hke.k ka 25 fd l kuka ds l eq okyk çR; d Hke.k 2 dh 0; oLFkk dh xba i kMyj us vc oSkkyh ftyseacgq egROI wZ LFkkuka glf l y dj fy; k gA bl dh rst of] vYi pØ vksj vPNh vkfkd çkfr ds dkj.k 3&4 o"lz dh vof/k ea fd l kuka }kjk i kMyj dks rdky viuk fy; k x; k gA

çHkkx }kjk ifj"kn-l a.Fkkuka vksj dñh l çkfr fuoskads vuq kj jk'Vh; , oavUrjkZVh; nkrk, tSUI ; ka dsl kfk Lohdfr] çLrnf] fujLr vksj iwZi ifj; kstukvka dh l kykuk vksj fregh LVs l fji kZ dks tkpdj v | ru fd; k x; kA tgla vko'; d Fkk l akksku ds fy, l a.Fkkuka@ dñh kads dfe; ka l fpr dh xba

ifj"kn-dh fo"ka; vk/kfjr vuq akku miyC/k; ka vlxsmi & v/; k; kaanh xbZ gA



fd l Hkh Åpkb;ka ij ¼vkj- vkckjh; e vksj vkj- ckchVe 6000&8000 QhV ij (vkj- dEi syyVe) 10000&11000 QhV (vkj-ysi MkVe vksj vkj-, UFKsi kxe) 12000&13000 QhV Åpkb; kkb Qyu] iqi .kj cht LFkkiu vksj fNrkjo dks 15 l s, d ekg vksfd; k x; kA vkj-dEi syyVe tks, d çdk'B ykbu çtkfr gS dsi kSkadksvi uh çkdfrd jat l sÅij dh vksj gYds l sc<fsgg n[kk x; k] tksn[jstksu ea çtkfr dh xfr'khyr dk , d l dsr gA



vkj- vkckjhVe

vkj- ckchVe



Å/okheh vkj- dEi syyVe



vkj- dEi syyVe

vkj- , UFKsi kskkb



vkj- ysi MkVe

i kSk voLFkk ij mRçfjr rkieku vksj ueh vf/k' kkl u ds rgr mlur co₂ Lrjka ds fy, egROI w kZ o{k çtkfr dh vuqfØ; k ij v/; ; u

mlur co₂ l kfk gh l kfk rkieku dsfy, o{k çtkfr; kadh vuqfØ; k ij v/; ; ukadsfo'kSk l UnHkZ ds l kfk tyok; q ifjorZu vuq U/kku djus ds fy, vkmkxvMl vksiu vkm pSc l Z LFkkfir fd; k x; kA dk; De ds vuq kj l kxk[dSokfjuk] ; v[Sy l V l] , yUFkl] uhe vksj cka dsrhu ekg dsi kSkadksrhu ekg dh vof/k dsfy, 600 ih-ih, e- vksj 900 ih-ih, e- ij vksiu vkm pSc l Zeamlur co₂ Lrjka evukor fd; k x; kA l kfk gh l ef) dj.k co₂ dsfcuk vksiu vkm pSc jkaefu; æ .k eaHh i kSkadksj [kk x; kA i kSkadksn[j s l v' dks i fjoSh okrkj .k ea pSc j dsckgj fu; æ .k eaHh j [kk x; kA of) i j kehV jka i j çSk. kkausn'kZ; k fd co₂ Lk ef) dj.k vksj fu; æ .k okrkj .k ds l UnHkZ ea of) ea egROI w kZ fofHkUurk fo | eku gA n[jk] mlur co₂ Lrj ds çfr i kSkadks dh vuqfØ; k çtkfr; ka ds chp vR; f/kd fHku gA dy feyk dj ÅpkbZ of) ds l UnHkZ ea vuqfØ; k l dk j kRed FkA l kxk[dSokfjuk] ; v[Sy l V l vksj , yUFkl usco₂ ds mfrFRkr Lrjka ds rgr mPprj of) ntZ dh gSt cfd uhe usmfrFRkr co₂ dh vi\$kk mfrFRkr rkieku ds rgr vf/kdre of) ntZ dh gA cka dh of) mfrFRkr co₂ vFkok rkieku jk jk l dk j kRed # i l s çHkfor ugha Fk t[jkl k; fud v/; ; u çxfr ij gA

fofHkUu vk; j LFkyka vksj çCU/k vf/k' kkl u ea egROI w kZ o{k çtkfr; ka ds dkcZu i ny {kerk ij eH; kadu

rfeyukMq ea dSokfjuk bfDo l hfVQksy; k ds 69 jki .k adk l o{k .k vksj fofHkUu enk fd Leka ds rgr 200 o{k ka ds iru rFkk fl apr , oa o'kZ ij vk/kfjr voLFkk vka ds rgr t[bek = k ea 'kjd inkFkZ mRiknu , oa dkcZu LVkkl dk vkdyu fd; k x; kA bl h çdk j t[bek = k vkdyu dsfy, 81 jki .ka l s 243 ; v[Sy l V l o{k ka vksj 7 jki .ka ea 21 , d f' k; k eH/ t; e o{k ka ds uew sfy, x, A dkcZud dkcZu vksj fofHkUu vU; xqkka



dsfy, bu jki .kka l s, df=r enk uewka dk fo'yšk.k fd;k x; kA l kxksu jki .kkaeadkcZu iwy eW; kaDu fd; k tkjgk gA

ouLi fr dkcZu iwy eW; kaDu vku/kz çns k mÜkj h {ks=

vku/kz çnsk ea Jhdkdye fof; kuxje~ vls fo'kk[kki VVue ftyka ds 11 {ks= LFkyka ea ouLi fr dkcZu iwy eW; kaDu v/; ; u fd, x, A of) i; ketVjka dksvfHkyf[kr fd; k x; k] tksApkbZ?kj vls tsek=k gA

vku/kz çns k ds N% ftyka ds fy, jk"Vh; ouLi fr dkcZu iwy eW; kaDu

çR; d 0-1 gDVs j dspkj DckMv cukdj iWZ fu;r Hksksfyd funZkkdka ij dy 36 Hk[k.Mka dk v/; ; u fd; k x; kA Hk; i; fjd tsek=k vls LFkfu d l puk ij vku/kz, d= fd, x, A vku/kz çnsk ds N% ftyka ; Fk&eMd] egcuxj] xWVij] ukyxkMk] jsk jMMh vls gñjckn ea dy ou tsek=k dk vkdyu fd; k x; kA oukadscgj o{kadh tsek=k dk vkdyu 40 LFkykaeçLrkfor gA

dkcZu fl ad ds #i ea budh {kerk ds fy, m".kdfVcalh; ou o{k çtkfr; ka

VDVksk xBMMI] 'kksj; k jkktVv vls ; dlyIVI gkbfcM ds fy, l ekJ; .k l ehdj.k fodfl r fd; k x; k vls jki .k rFk df"k okfudh ç.kfy; kaebu l ehdj.kka dk mi ; kx djsdskcZu dk ifjek.k fu/kZjr fd; k x; kA o{k çtkfr ds #i ea MSYctZ k fl LI j ; dlyIVI] gkbfcM vls ikafe; k fiLukVk ,oa VDVksk xBMMI rFk df"k QI yka ds #i ea VRbfVde , fLVoe] fl I j , fjbVVue] foFkkfu; k l kEuoQjk] gkMhZ e oYxjh ,oa , ohuk QVw k ds l kFk df"k okfudh ç.kfy; ka LFkfir dh xBA o{k çtkfr ds #i ea MSYctZ k fl LI vls VDVksk xBMMI ds l kFk df"k okfudh ç.kkyh ea VRbfVde , fLVoe QI y us vf/kdre dkcZu vyx fd; k bl ds ckn foFkkfu; k l kEuoQjk vls fl I j , fjbVVue jgA iUnj l ky ds

VDVksk xBMMI vls MSYctZ k fl LI vds l kFk df"k okfudh ç.kfy; kaeadkcZu i FkDdj .k eavf/kdre ?kVko fl I j , fjbVVue ea gYkA bl ds ckn VRbfVde , fLVoe vls foFkkfu; k l kEuoQjk jgA



m".kdfVcalh; ou vuq dku l kFku iflj ea LFkfir VDVksk xBMMI vls gkMhZ e oYxjh dksfeykdj df"kokfudh izkkyh

mÜkj h jktLFkku ea dQn ftyka ea ouLi fr dkcZu iwy eW; kaDu

jktLFkku ds Jh xakuxj] gukux<+ p#] >uYfl dj vls t; ij ftykaeouka, oaoukadscgj o{kkaeadkcZu xfrdh rFk o/kku ouLi fr eadkcZu dk eW; kaDu fd; k x; kA bu ftykaeou dsckgj o{kkaads rgr dy 19 ou LFkyka vls 33 Hk[k.Mka dk l o{k.k fd; k x; k vls oukaeçR; d LFky eapkj dsl em uewka eao{k vls >kM; ka dh eki yh xBA oukadscgj o{kkae dQn df"k Hk[e] l kemk; d Hk[e] jk; jktekxZ jk"Vh; jktekxZ jsyosHk[kx] ugj ykbu vls xkpkadkstkM us okyh l Mdka dk l o{k.k fd; k vls of) ifjofrZ ka dh eki yhA fofHku ?kj Jf.k; ka dk çrfuf/kRo djusokys o{k dh vk[kjh 'kk[kvka dh tsek=k rkts vls 'kqd uewkankuksdsfy, vfhkyf[kr dh xBA

jktLFkku dh fofHku ou fdLea ea dkcZu i FkDdj.k ij v/; ; u

jktLFkku ea ouka ds dkcZu LVkkl dk , d vkdyu miyCk djkus ds mnas; ds l kFk 336 ou Cykklka vls bu Cykklkae446 LFkykadscdoj djsckjg ftykadk l o{k.k fd; k rFk o{k , oa>kM; ka dh of) dh



eki yh vls >Mlt@'kcd tsek=k vfhfyf[kr dh xBA Hk/k.Mka l s[kji rokj] ikni , oaenk uewka dksHkh , d=fd; kA çfr'kr enk dkcZud dkcZu rFkk vdkcZud dkcZu eaftykadschp 0; k; d fofHkur FkA guækux<+ftysea0-17% l sckd okMlt ea0-99% rd enk dkcZud dkcZu eafofHkur FkHj tcfid >uweayxHkx 'kH; l s fpUkka/x<+ftysea1-12% rd enk vdcZud dkcZu ea fofHkur FkA ysVMhfu; k ikbjk/sDudk dh rtkk Hk; qfjd vls Hkne ds uhsps tsek=k 0-29 l s 2-63 1/0-97 dk vls r½ ds chp vkj@, l vuqkr ds l kfk Øe'k%0-09 l s19-0 fd-xk- l s0-05 l s20-0 fd-xk rd FkA



ckMej ea; dksfz k dMlt Qlky; k >Mlt ou



ckMej ea jxLrkuh fVCck >Mlt ea tkyk ea jxLrkuh fVCck >Mlt ea dS/kVfi l ikj jk dS fj l Ml Mqk

ckMej ftyseackymfVCck >Mlt 92 l seh- dso{k ?kjs6-5 eh- dh Åpkbz vls 6-6 eh- dsN= 0; kl ds l kfk vls 0-68 ds tM+çkjg vuqkr ds l kfk dS/kVfi l çk jk }kj k vka'kd #i l s'kfl r ikbz xBA tkyk ou çHkx ea190 l seh- ?kjs 5-5 eh- Åpkbz vls 5-6 eh- N= 0; kl ds of) ifjofrz ka ds l kfk dS fj l Ml Mqk o{k ç/kku {k= Hk nçkk x; kA ysVMhfu; k ikbjk/sDudk ds of) ifjofrz ka adklyj ?kjk Åpkbz vls N= Øe'k% 5-26 l s40-50 l seh] 55-0 l s233-0 l seh- vls 36-0 l s 380-0 l seh- FkA fl jksh ou çHkx ea efxQjk bMdk dk , d fefJr ou nçkk x; kA

[kji rokj l we thoh xfrdh ij tyok; q ifjorZu dk çHkko

mUkj i wZHkjr eafMIVkjkdkizou ea [kji rokj l we thoh xfrdh ij tyok; qifjorZu ds çHkko dk vl; ; u djus ds fy, noekyh vkj{kr ou %/#.kpy çns k½ vls ekjg %ef.ki g½ ds fMIVhjkdkiz i Ukh [kji rokj vi?kVu dsfy, mUkjnk; h l wedodh dh vBjg çtkr; ka dks Øfed rundj .k&ly/ x.kuk fof/k dk mi; kx djds rhu rkil gu'khy oak ¼ Lijftyl çtkr] dbV/kfe; e- çtkr vls jkb tkE; wj çtkr½ ds l kfk o'kZ ds fofHku eks ekaea i Fkd fd; k x; kA , Lijftyl çtkr 55 fm- l s vls bl l svf/kd ij thfor ughajgh rFk 35 l s 45 fm- l s ij vfkdre of) nçkh xBA dbV/kfe; e çtkr dsekeys eavuphyre of) rkieku dh jat 55 l s 60 fm- l s ikbz xbz vls jkb tkE; wj çtkr dh 45 l s 55 fm- l s FkA l wedod dh vkcknh xfrdh ij vl; ; uka us fofHku eks ekaea i; kZr fofHkurk fn[kk bz tks vi?kVu dh nj ij fuHj gA vi?kVu vls l wedodh vkcknh dh vfkdre ek=k o'kZ h eks e ea nçkh xbz bl ds ckn ol Ur ea FkH vls l nhzeal; ure FkA Hk; qfjd enk dh rgyuk ea Hkne ds uhsps dh vol Fk ¼ rgh ijr ds Bhd uhsps eavi?kVu dks mPp nj vfhfyf[kr dh xBA xr



ckMej ea, y- ikbjk/sDudk vls dMlyxkue i kly/hxks kMlt dh jxLrkuh fVCck >Mlt



fl jksh ea efxQjk bMdk fefJr ou



n'kd 1/1999&2000%dsHkrj [kjirokj vi?kVu nj ea ifjorZka dk eW; kadu djus ds fy, bu vkdMka 1/2009&2010%dh rnyuk dh xbvks; ifj. kkeaus-1-07 l s 1-01 rd vi?kVu nj eadeh vks; bl h {s-Qy dsfy, fyfxue l khnrk ea?kVko , oaukbVktu l khnrk eaof) dksn'kz; ka

l n'ij l onh vk/kkfjr tS&tyok; oh; rkfydk dk fodkl

mlurk'kh; ds l cdk ea dN n'kdka ea cdk'B ykbu vks; rFk oxka ea ifjorZkadh oS rk dkseW; kad r fd; k x; ka chnuh cK; ky pelyh x<oky ds, Yikbu {s-ka ea ouLifr vlrxeu eW; kad r fd; ka Hk&l R; ki u 1/ctkr l a kstu 1/2 ds fy, ifjorZk ds {s-Qy dks l heladr fd; k x; ka o{k ykbu ouLifr fo'kSkdj jk&M/M/M/ksu dEi sny/ve/, fct fi UM/svks; DodZk l fedkfi Dkfy; k ds i kka, oa ckyo{kka dks , Yikbu tksu dh fn'kk eaxfr djrsik; k x; ka

df"k okfudh vks; tyfoKkuh; vuq; kska ds fy, LopkfyR ekS e LVs ku@ df"k ekS e foKkuh; LVs ku vkdMka dk mi ; ksx

dklgk jk"Vh; i kdZ cku/kox<+jk"Vh; i kdZ vks; ek/ko jk"Vh; i kdZ ea LopkfyR ekS e LVs ku vks; df"k ekS e foKku LVs ku ds l ehi LFkyka dk p; u fd; k x; ka p; fur LFkyka ea?kkl tsek=k v/; ; u fd; k x; ka 30 l seh- vlrjky ij 1-50 ehVj dh xgjkBZ rd enk ueh cKokby dh eki yh xbA l rg , oa mi l rg enk ueW, d= djds c; ks'kkyk ea fo'ySk.k fd; ka



dklgk jk"Vh; i kdZ ea, , e , l ds l ehi enk ueh i kOkby dk v/; ; u djrsqg



dklgk jk"Vh; i kdZ ea, MGY; w, l ds l ehi ?kkl tsek=k dk v/; ; u djrsqg

ouLifrd c.kkyh ea AtkZ , oa n0; eku fofue;

phM+jki .kkaeal (e eki i) fr , oatS HkSrd iSkehVjka ds eki ds fy, Hk&l rg cF0; k ekMfyka dk mi ; ksx djds N= okrkoj.kh; fofue; cF0; kvka , oa cKkfed mRikndrk dh ekMfyak] Lo&LFkku ekika dk mi ; ksx djds l SVsykbV 0; BiUu iSkehVjka ds ekU; dj . k ds mn'ns'; ds l kFk ou vuq U'ku l hFku ifj l j] nsjknw ea phM+ jki . k You ikjra=1/2 ea l (e eki i) fr LVs ku dh LFkki uk dh xbA



ou vuq dku l hFku ifj l j ea l (e eki i) fr LVs ku

2-1-3 i kfj l Fkfrdh , oa i ; kbj . k i kfj & i u#) kj

; j'fu; e [kkuka ea i kfj & i u#) kj v/; ; u tS&l dKj dh vk; q ds l kFk vof'k'V vPNkfnr enk xqka ea mYys[kuh; l dKj vfhfyf[kr fd; k x; ka ikni vof'k'Vka ds l p; u vks; ckn ea vi?kVu ds QyLo#i i ksd l ef) dj . k eaof) ds l kFk tS inkFZ dh of) gD A tS dkcZu vks; ukbVktu ek=k, a vk; q ds l kFk of) djrh gD ukbVktu vks; QkMkQj l dh mi yC/krk vk; q ds l kFk c<Fh gD fofue; /kuk; u usnsl ky dh vk; qj 8-51 fd-xk- cfr gDVs j dk l kykuk ykHk ckr djds vks; mrjkskj of) djds i kS'f'k; e dh l khnrk mYys[kuh; l dKj n'kz; ka bl cdkj fo|eku ikni ctkr; ka vYikof/k ea vof'k'V vPNkfnr enk ds HkSrd&jkl k; fud xqka }kjk vR; f/kd cHkfor gD A jSM; kS; DykbM+ dh U; ure l khnrk igpu dh xbA ctkr; ka Fkh& dksyhcdh; k vikstfvQkfy; k] Mks/Mksuh; k foLdkl k] Qj0b; k OkbVMMk] bEi jkV



I hysUMdk] tVtQk xkl hfi Qkfy; k] i kskt Vheku
cāksybl h vls] I dje Li kVsh; eA ; smFkystM+rā-
dsI kFk v&[kk] de ĀpkbZvls] T; knk N= vkoj .k ds
I kFk Inkgfjr gā p; fur I kr çtkfr; ka i knika }kjk
jSM; k; DykbM dsmnxg.k dh U; ure I kUnrk vFkok
fuEu [ksth I hek dksn'kzrh gā p; fur çtkfr; ka dh
tMaenk dh 30 I seh- ijr rd I ffer Fkh rFkk VsyāI
dk osku ughadj jgh FkA of)] 0; kl] vk/kfj; {ks=Qy
ogh Fk tS k çkdfrd ikfjra= eaFkk] bl fy, vof'kV
vkPNkfnr enk çHko ux.; ik; k x; kA

i f' peh ?kkV] dgy eaI {ke fufEud'r {ks=ka
dsfy, LFky fo'kšk iqtu I d/kā; kstuk
dk fodkl

vVvkiMMh vkjf{kr ouka ea iMij] fl #ouh
FkFkxkye vls] iUFkuFkMweaçk; kSxd LFkykadhi gpkū
dh xbā çk; kSxd Hkūk.Mka ea vls] bl ds pkjka vls]
çtkfr; ka dh I ph rS kj dh xbā çk; kSxd Hkūk.Mka ea
vls] bl dspkjka vls] ouLifr dk ek=Red ev; ka du Hh
fd; k x; k vls] I Hh dk'Bh; çtkfr; ka dk o{kprk ?kj k
Hh vHkryf[kr fd; kA foHkū ou LFkykadsfy, vxz kh
, oaN= o{k çtkfr; ka dk p; u fd; kA p; fur vxz kh;
çtkfr; ka gā Inkgfjr ou {ks=ka ½I #ouh vls]
iUFkuFkM½dsfy, ehl k bāMdk] eājxk bāMdk]
DyhjkāMMe foLdkl e] vksyh; k fMvkdk vls]
I htft; e dīefu] FkFkxkye ea vknz i .kā krh ou
{ks=ka ds fy, DyhjkāMMe foLdkl e] gksyghuk
I; wchl bl] gfyDVhjI vkbl kj] jkbv; k
fVdVksj; k] XykbdkLeI ekf'kz kuk vls] bhffkuk
bāMdk] iMij {ks= ea 'kqd i .kā krh LFkyka ds fy,
, Ukuk LDoekl k] Vjhuk , fl ; kfVdk] MkāMsh; k
foLdkl k] XykbdkLeI ekf'kz kuk] Dyks huk
MsvkVk] dfl ; k vkfjdnykVk vls] eMnyh; k
I sji h; kA

ikp p; fur vxz kh çtkfr; ka ds I kFk muds
çn'kū dk v/; ; u djus ds fy, fl #ouh ea , d
ijh{k.k LFkfr fd; k x; kA iMij ea 'kqd i .kā krh ou

LFky ea nks çtkfr; ka Vājhuk , fl ; kfVdk vls]
MkāMsh; k foLdkl Rhd k jsi .k fd; k x; kA

vāj.k vls] išk'kkyk v/; ; uka ds fy,
XykbdkLeI ekf'kz kuk] MkāMsh; k foLdkl k]
eMnyh; k I hfj I h; k] dfl ; k vkfjdnykVk] ukfjxh
ØhnykVk] fl i Mhl cfl Qj k] DyhjkāMMe
foLdkl e] ghfyDVhjI vkbl kj] gksyghuk
I; wchl bl] jkbv; k fVdVksj; k] eSykV
fQfyi sūl I] eSykV VādkdI vls] vksyh; k
Mk; kdk dscht , d= fd, x, A

I Qyrk dh dgkuh

}hi I engkads v.Meku I eng dh I qkeh
rckg rVj s[kk dk i kfj & i q#) kj

2004 eaI qkeh vkusdrgūr ckn 2005 ds
nkSku , d ifj; kstuk 'kq dh xbā ifj; kstuk dk
mnas; vk/kud išk'kkyk vls] jsi .k çkS kSxdh
viukdj rFkk I cl smi; qr cht I ks dk mi; ks
djdsmlkj] e/; vls] nf{k.k v.Meku }hi I engkae
j{kki VVh jsi .kka dk fodkl djuk FkA bl dk
mnas; ifj; kstuk çxfr ds I kFk bu rduhdkae
v.Meku , oafudkskj ou foHkx ds {ks= depkfj; ka
dk {kerk fuekz k djuk Hh FkA ou foHkx ds I Ø;
I g; ks ds I kFk ifj; kstuk vof/k ds nkSku
}hi I eng ds rhuk I eng ea yxHx 40 gDVs j
j{kki VVh jsi .k LFkfr fd, x, A LFkfr bu I Hh
jsi .kka ea 80% I svf/kd dk LVkū gā gj LFku ea
I Hh {ks= dk; Dyki kaal Fkkuh; I epk; ka dks'kfy
fd; k x; k vls] ; sbu tō nhokjadh I j{k djusea
I gHkxh Hh gā bu jsi .kka dh LFkfr uk , oavuj {k.k
usl qkeh ds mi jkūr dfBu vof/k ds nkSku jst xkj
miyC/krk ds #i ea vktfodk ds I vol j Hh
I ftr fd, vls] dk; Zcy dh cMā I ā; k efgykva
dh FkA



fuEuhdr I kempf; d Hkfe dk i kfj & i q#) kj
 x<oky ds i kMh ftyseaMkMk Jh ukxjtkk ea
 mi; Dr o{k çtkfr; ka dk jki .k djds fuEuhdr
 I kempf; d Hkfe dk i kfj & i q#) kj fd; k x; kA çkjEHk ea
 VfeZusy; k phcykl VfeZusy; k cysfjdkl txybl
 jhx; kl xhfofy; k jkMh Vkl vls ehfy; k dEi kft Vk
 vkn tS h ou o{k çtkfr; ka dk jki .k fd; k x; kA
 xhfofy; k jkMh Vkl dk çn'ku çgrj ik; k x; k rFk
 LFky dsfy, I cl smi; Dr FkA LFkkuh; ykxkadsfy,
 çk; kxd LFky ij jksir çtkfr; ka ij I puk dk çl kj
 djdsikfj&iq#)kj , oal j{k.k ij tkx#drk dk; Øe
 pyk; k x; kA

ou i kfj r= ij vkØked çtkfr; kadk çHkko
 nsk dsl cl stfodh; #i I sl onh {ks=kaeadn
 eavkØked çtkfr; kads vkØe.k , d xkhj I el; k gS
 D; kad ; sçtkfr; kaçk; %nskd ikfj r= dh I j puk , oa
 I a kstuk dksny nrh gbl fy, ; snskt tfofo/krk
 dsfy, I dV gA

dkftjack jk'Vh; ikdZ vle ea feekd k
 bflol k vkØe.k dh ikjflFkfrdh ij vuq akku fd; k
 x; kA fonst çtkfr; ka dh mifLFkr vls tfodh;
 vkØe.k , d 0; ki d vls egxh i ; kbj .kh; I el; k gS tks
 xr n'kdk ea xgu çclvk dk; Zdyki ka dk dhnz jgk gA
 v/; ; u {ks= dk 810 eh x 810 eh vkdkj dk fxM
 ekufp= I ftr fd; k x; kA fn'kk fo; kstu I SvykbV
 fcEck ¼ y-vkbl , I - I -3½ dk oxhblj.k fd; k x; kA
 çR; d ou jat eafeekd k dh mifLFkr@vuqflFkr ds
 fy, ç'ukoyh vk/kfjr eW; kadu I o{k.k Hkh fd; k x; kA
 feekd k vkØfer [k.Mka ds Hk&funskdk ds I xg.k ds
 fy, th-ih, I- vk/kfjr çkjFEkd I o{k.k v/; ; u {ks=
 dsfy, fd; k x; kA th-ih, I- I puk vls çkjFEkd
 oxhdr ekufp= ij vk/kfjr , d **I {ke vkØe.k
 ekufp=^ r\$ kj fd; kA tyk&l kj.k I Melh dSi LFku
 dEi kvbV vls fxMkatS sfodVj ys I Zds th-vkbl, I-

i ; kbj.k ea I {ke vkØe.k ekufp= ds I kfk , dhdr
 fd; k x; k vls vk/kj ekufp= r\$ kj fd; kA dkftjack
 jk'Vh; ikdZdh cxkjh jat ea3 fofkku feekd k I sxfl r
 LFkykaea i kni & I kelftdh; v/; ; u fd, x, A feekd k
 dh __rçfodh; ?kvukva ij vkMh vfhfyf [kr fd,
 vls Qhukste r\$ kj fd, x, A dkftjack jk'Vh; ikdZds
 if'peh] dhnz;] i nhz vls çkjQj jat ka I svkØe.k fd,
 x, {ks=kaea igpku fd, x, A LoLFk feekd k i kni ka I s
 cht , d= fd, x, A cht tfodh vls vadj .k v/; ; uka
 dsfy, cht ka dks çØfer , oa Hk.Mkfjr fd; k x; kA
 ç; ks'kkyk vls i k'kkyk voLFkva ea cht vadj .k
 ij h{k.k r\$ kj fd, x, A enk cht chl I si k'k fuxeu ds
 fy, {ks= ij h{k.k Hkh r\$ kj fd, x, A , d

ç'ukoyh (हिन्दी भाषा में) तैयार की
 xbl vls foehman mimosa
 fu; k के लिए
 ç'ukoyi
 vk/kfjr
 eW; kadu
 I o{k.k fd; k x; kA dkftjack jk'Vh; ikdZ vle Hkr dk I SvykbV
 vkMh ¼ y vkbl, I , I 3½ oxhblj.k



ySVkuk ds vkØe.k dk ikjflFkfrdh;
 çHkko eW; kadu] bl dk fu"dkl u vls
 vkokl dk ifjorhZ i q#) kj
 mukjk [k.M eajtkth jk'Vh; ikdZ ds çdfrd
 oukaearhu I ky igkusySVkuk fu"dkl r vls ySVkuk
 vkØfer LFkyka ea ouLifr fo'ysk.k fd; k x; kA
 ySVkuk fu"dkl r LFkyka ea çHkoh o{k çtkfr; ka dk



ikdZ {ks= ea ySVkuk dk vkØe.k



ySVkuk dks gVkus dskn nskt fuEu forku ouLifr dh of)



iqtzu v/ ; ; u fd; k x; kA jtkth jk'Vh; ikdZ ea ; wdfyVI jki .k {ks=kaeaySVkuk vkOe.k} fu'dkl u vls ckn eaiq#) kj dsQyLo#i ikni ctkfr fofokrk , oa l ef) ij ctkko dk eW; ka du Hh fd; k x; kA ySVkuk ds fu'dkl u dsQyLo#i fefJr , o d ky c/ku ouLifr l emk; kae [kkl v/kfokru nskt ouLifr dh c/kkurk ea mYys[kuh; ifjoru vfhkyf[kr fd, x, A

t b & l qkkj

t b & l jkd; ds }kj k ckDI kbV vo' ksk'k dk t b l qkkj

t b l qkkj , d fuEu ykx , oa i ; kbj .kh; vuqny rdudh g f t l e a l k/kkj .k #i l s l mfr'kr {ks=ka , oa l eL; kRed enk dks l kQ djus dsfy, ikni ka , oa thok .kq/ka dk mi ; l x gkrk gA ckDI kbV vo' ksk'k yky dhpM½, yfeuk m | l x dk , d vls ksd vif'k'V xkSk mRikn gA Cymxhu , Yxh l o/kz fodfl r fd; k x; k vls ch-th, - l o/kz dk co/kz cxf r ij gA bl ifj; kst uk ds rgr dskcDVhfj; k l o/kz dh fofokru ctkfr; ka dks cfof/kz fd; k tk jgk gsvls yky dhpM+l qkkj ij buds ctkko dk v/ ; ; u fd; k x; kA p; fur ctkfr; ka mnkgj .k & MS cftz k fl LI ji ckd kfi l tny ykykj / , ds'k; k vkij dny Qkbe l] fi Fkh l hyksc; e MYI s vls dsl ; k fl ; kfe; k ij ckDI kbV vo' ksk'k vls dskcDVhfj; k l o/kz dst b l jki .k dsl qkkj ds ctkko dk v/ ; ; u djus dsfy, ikk'kryk c; ksd ij h(k .k cxf r ij gA

vif'k'V ty dst b & mi pkj dsfy, dod

foHku dod ; Fk & yoyka/MU yoy l / vkDI hi kj l jfoMI] LdhtkQkbye dkkwuh/ MehVI ofl Bklyj Vh- fl xnykVv vls i hDuki kj l l xuh; l ds l kFk fofokru m | l xka ea c; l x fd, x, rkd of) vls t b l qkkj {kerk dh tlp dh tk l dA

dn xkoka dk ou uohdj .k l v e tyok; q

ikni l kelt dh; i jkehVjka mnkgj .k & ?kuRo] ckj Eckjrk] cpjrk] vk/kfj; {ks= egRo i wkzeW; rkfydkl

ctkr fofokrk rkfydk] c/kkurk , oa , d #irk dh l klnrk enk ds Hkrd jkl k; fud xqk rFk nks ; Fk ukxno eflnj] ij h , oa fu; k p; fur LFkyka l s , df=r nsud ek eh; vkMka ij v/ ; ; ukasn'kz k fd v/ ; ; u LFkyka ds ouLifr , oa enk vofLFkr ea fofokruk Fk fdurq LFkyka ds ek e vkMka ea mYys[kuh; fofokruk vfhkyf[kr dh xBA

iknih fofokrk ij 'kgjhdj .k dk ikfj l Fkfrdh; ctkko

'kgjh@xkp vkokl ka l snjh ds l cu/k ea ou ikjra= eao{k fofokrk] v/kkf) t b ek=k] l ki k vkzrk ea of) vls v/kkf) ctkfr fofokrk , oar kieku ea deh n[kh xBA l ehi orh'ou ikjra=kaeafLFkr vkokl a uspj k vls bku dk'B dsl xg .k dsfy, ou l hFkka ij fuHj rk dksn'kz kA

ngjknw ea ok; q xq koUkk eW; ka du dsfy, ok; q c ntk .k t b ekuhVju LVs ku dk fodkl

l sykdbZ vls ksd {ks= l kFk gh l kFk 'krknh ou foKku dbnz ngjknw eaok; q c ntk .k t b ekuhVju LVs ku LFkfr fd; k x; kA vls ksd {ks= ds ok; q xq koUkk Lrj dseW; ka du dsfy, ok; q c ntk .k dsfy, ikni l onh rkfydk vls ok; q c ntk .k rkfydk dk fodkl fd; k x; kA nskat b ekuhVju LVs kuka; Fk & l sykdbZ vls ksd {ks= vls 'krknh ou foKku dbnz ds ok; q xq koUkk dk eW; ka du djus dsfy, dbz l fO; t b ekuhVju v/ ; ; u fd, x, A

uUnknoh thoe .My jhtoz ds #i dq M , oa fi Mkh {ks=ka ds i ; kbj .k ij i ; Mu dk ctkko

{ks= dh ouLifr] en] ty vls Hm'; ij i ; Mu vFkok i ; M d dk; Zyki ka dk T; knk ctkko ugha FkA nskat {ks=ka ds l kelt d vkfkd v/ ; ; ukasn'kz k fd ykx cgr xhc g f buds i kl Ldnyka/gkbZ Ldny l s vks f pfdRI ky; k VsyhQksu fctyh t s h vk/kj Hw



I fpo/kkvkq ; gkard fd xpkoeaI Melkadk Hkh vHko gA LFkkuh; ykscadh {ks= dsi ; V/u eaT ; knk I gHkfxrk ugha gA i ; V/u vks LFkkuh; ykcka dks I gHkfxrk dks cRkI kfgR djusdsfy, dN j.kulfr ; kadk I qko fn ; k x ; k gA

jks/kks/Mku vkckjh; e vks ekbfdk ukxh ds iqtzu vks vkcknh I j p uk ij ekuo cfr fo{kktk dk cHko

x<oky fgeky; eajks/Mku vkckjh; e ds iqi.k] Qyu , oacht ifjiDou dk ekuVju fd; kA chtkadks, d= djds; ks'kkyk eavdj.k {kerk dsfy, ijh{k.k fd; kA {ks= ea LFkkuuk vks cht vadj.k ds ekuVju dsfy, LFk; h Hk{k.Mkadksfgfur fd; k x ; kA [kys vks I ?ku N= {ks=ka ea i kka vks ckyo{kka dh LFkkuuk dk v/ ; ; u fd; k x ; kA jks/kks/Mku vkckjh; e ea iqi.k dspf; 0; ogkj dk csk.k fd; kA jks/kks/Mku vkckjh; e vks ekbfdk ukxh ds i kka , oackyo{kadh I ; k I ?ku N= ou {ks= ryuk ea [kys rFk vukor {ks=eampp vHkfyf [kr dh xBA

ou vkMk vk/kkj ds ekuVju ds fy, th-vkbZ, I - dk vuq; ks

mUkj&iwZ Hkjr ds th-vkbZ, I - vk/kjr ou vkMk vk/kkj ds I ; ofLFkr I tu] cuU/ku , oa mPphdj.k dh LFkkuuk dh xBA Hkksyd I puk c.kkyh usckfrd I d k/kukadsl phdj.k] ekuVju , oacdk ea Okfur yk nh vks oKfudk@fu.kz drik/ka ds , d I 'kDr I k/ku miyC/k dj; kA th-vkbZ, I - ykr vks I e; cHkoh rjhdsI svUrjky vks I e; I hek c' ukadk



o'kz ou vuq dku I hFku] tkjgV eaH&I puk iz, ks'kkyk

I ek/ku miyC/k djuseal {ke gA bl {ks= dsfo'kky ou vkMk vk/kkj dsl tu] ifjpyu , oal exzcU/ku ea th-vkbZ, I - ds egRo vks mi ; ksxrk dks / ; ku ea j [krsq orZku ifj ; kst uk dks I fr vks fu"iknr fd ; k x ; kA ifj ; kst uk dks I QyrkiwZ I jk fd ; k x ; k vks vk/kud gMbz j] I kVos j] vkMk , oa n{k ekuo'kDr I fgr I Hk vk/kjHkr I fpo/kkvkadsI kFk o'kz ou vuq U/ku I hFku] tkjgV ifj j ea, d I d FTtr H&I puk c; ks'kkyk dh LFkkuuk dh xBA Hkjr; I o{k.k foHkx mUkj&iwZ fdz] f'kyak I s1%0 ds vks 1%25 ds Ldsy ds Hkjr; I o{k.k foHkx dh 450 Vks kskfQd 'khvackr dh xBA I Hk dksfMftVy Qke/ eaHk.Mkjr , oah&I UnHkZ fd ; k x ; kA Hkjr; ou I o{k.k] nsjknw I sckr oukoj.k ekufp= dks i qjcf{kr vks gkbjfyd fd ; k x ; kA enk fdLeh enk&{kj.k] Hk&vkd'rd] Hkksedh vks d'k&ikjLFkrdh ekufp=ka dk H&I UnHkZ j.k vks vadh; dj.k fd ; k x ; kA miyC/k Hkjr; I o{k.k foHkx Vks kskfQd I s vkjfk'kr ou dk vadh; dj.k i jk fd ; k x ; kA I Ei wZ mUkj&iwZ Hkjr ds #i ea I Hk miyC/k mi ; kst u , oa Vks kskfQd foDVj ys I Z dh gkbj fyadk ijh dh xBA

ts tykRi kj.k ds fy, mi ; Dr o{k ctkfr ; kadh i gpu

csk.k dokadk mi ; ks djdsHkexr ty Lrj eackjxh deM , fj ; kj tcyij dsyIV cbl dky ds I kFk&I kFk jksir , ds'k ; k fuykVdk] , fycft ; k ckd jk] MScftZ k fl LI j ; dsyIVI gkbfcM] ikase ; k filukVk vks vefusy ; k vtuk I fgr I kr o{k ctkfr ; kads cHko dk csk.k fd ; kA ctkfr ; ka



m".kdfVadh; ou vuq U/ku I hFku ifj j eaf; k x ; k ykbl heVd ijh{k.k



Qkjfx dekm ,fj; kj tcyij dh clā fdukjs
ugj ds l kfk&l kfk jsi .k

dhof) vlsj tsek=k ij ty Lrj dsçHko l kfk gh l kfk
ty Lrj ij o{k çtkfr; ka dsçHko dsçç.k.k dsfy,
ykbftesvd Vdkæavu#fir ç; kx fd, x, A

vjkoyh jatka eavi okg {kfr; ka dsfu; æ .k
ea ty l p; u l k/kuka dh {kerk vlsj
vfkD; oLFkk rFkk tsek=k mRi kndrk
c<kuk

ckd okMk eafuEuhdr i gkMk {ks=kaeafofHku o'kz
ty l p; u rduhdka½dvij [kkb; kx xMksuh] ckD l [kkb
vlsj oh&fMp½dksviukus l s{ks= eatsofofo/krk eal dkkj
gqk gā çk; kx d Hk[k.Mkaea?kk l 'kkd çtkfr dh l ā; k
eaof) gqZgsvlsj 2005] 2006] 2007 vlsj 2008 eaDe'k%
39] 75] 81 vlsj 81 çtkfr dh rgyuk eavDVurj 2009 ea
92 çtkfr; ka vfhfyf[kr dh xBA çtkfr; ka dh l ā; k
10&20% <ky fuEure ¼-99m⁻²½Fkh vlsj of/kz uhpsdh
vlsj <10% <ky eamPpre ¼-22m⁻²½Fkh 'kqd inkFZ
mRiknu <10% ea 246-82gm⁻² l s>20% Nky ea 355-
86gm⁻² FkA mi pkjkae] fu; æ .k Hk[k.Mkaea 272-81gm⁻²
dh rgyuk dsoh&fMp ea 336-9981gm⁻² dk 'kqd inkFZ
mRiknu FkA l ā{k.k vlsj ouhdj.k ds ifj.kke Lo#i]
{ks= eaty] pkj vlsj bāku dk"B mi yC/krk eaof) gqA

2-1-4 tsofofo/krk

tsofofo/krk eW; ka du vlsj l ā{k.k

fo'o eal kroka l cl scMk nsk vlsj ,f'k; k dk
nl jk l cl scMk jk'v^a gksusdsukrsHkjr fo'o eackjgoh
l cl scMk vfkD; oLFkk ds#i eamHkj gā Hkjr dh l nk
c<rh vfkD; oLFkk vlsj l dYi uk 2020 çkdfrd l ā k/kuka
fo'kksdj 'ksc cpsou ikjra=kaeçR; {k #i l svfØe.k
djsxh tks fuf'pr #i l sfpurk dk fo'k; gā egk

tsofofo/krk nsk gksusdsukrsHkjr eaou vuslka i kjrā-
l sk,ami yC/k djkrsgq vge Hkiedk vnk djrsqš tks
vkfFkd l unHkzeavf/kdrj çfgl kc gā

½d½ i whzgeky;

Åijh vle {ks= ds ikni l ā k/kuka dk
ek=kRed eW; ka du vlsj fxM vk/kkfjr
ekufp=.k

Hkjr dk i whzgeky; {ks= fo'o eatsofofo/krk
ds i Pphl gkVLiMkaeals, d gā bl {ks= eavksv/kh;
egRo dh vlsj vU; Fkk vkfFkd #i l segRo i wZ ikni ka
l fgr ikni kadh yxHkx l kr gtkj çtkfr; ka gā Åijh
vle {ks= ds ikni l ā k/kuka dk xqkRed eW; ka du vlsj
fxM vk/kkfjr ekufp=.k 'kx fd; k x; ka fofHku uewk
fxMka l sl efv/kr 131 cV VRUI DV ¼yxHkx 6-5 fd-eh x
6-5 fd-eh vldkj½dk l o{k.k vlsj uewsysusdk dke
ijk fd; k x; ka tksjgkV fMca<f> xksy/k?kV] y[kheij
vlsj fl ckl kxj ftyal sl sifyak fxMkadk p; u fd; k
x; ka rnuq kj ikni uewka ¼ axgky; rš kj djs ds
fy, ½dk l axg.k] çR; d cV VRUI DV eavlsj bl dspjka
vlsj l Hk mi yC/k ikni kadh Qks/ksçQh dh xBA fofgr
QkæV ds vud kj ?kj kj ÅpkZ _rç fcdh vfn ds
l Ecl/k eahh l puk , d= dh xBA l Hk cV VRUI DV ds
'kx okrh fclnh e/; fclnqvlsj vflre fclnqds th-i-h, l-
LFkku dksukv fd; k x; ka l siy {ks= dso{k] >Mk vlsj
'kqd çtkfr; ka ds l Ecl/k eal puk dksçyf[kr fd; ka
mi; Ør çfØ; k dks viukdj djhc 309 uewka dk
l axgky; rš kj fd; ka rnuq kj th-vkz, l- vRkMk
vk/kkj dk mPphdj .k fd; k x; ka

Tki kj vkj f{kr ou dh ikni fofo/krk

Tki kj vkj f{kr ou eal ā{k.k ds fy, ikni
fofo/krk xfrdh ds eW; ka du ij v/; ; u fd; k x; ka
m".kdfVcah; vknZ l nkgfjr ikjra= ds ikni h l ā kst u
vlsj o{kka ds i q tZu Lrj dk eW; ka du fd; k x; k vlsj
Lo&LFkkus, d uewk Hk[k.M ¼ gDV s/ rš kj fd; k x; ka
o{kka >kM+ kavlsj 'kcdka ds fy, nks LFkkukagr quew k Hk
fy; k x; ka v/; ; u LFky l so{kka ds çkdfrd i q tZu
Lrj ij vqdMshh, d= fd, x, A



I Qyrk dh dgkuh

ikni &fofo/krk ds I j {k.k ij xkeh. kka dh Hkfedk

tkjgkv ftyk vle ea xkeh. kka }kjk [k.M ouLifr ds ikni I a k/kuka, oabl ds foHku mi ; kcka dk cy{ki ksk.k fd ; k x; kA I Ei wZ ftys ea p; fur 24 v/ ; ; u LFkyka ea iknika dh foHku ctkfr; ka ds ctkfr LFku , oa ikfj LFkr dh dk v/ ; ; u fd ; k x; kA ikni &fofo/krk ds I j {k.k ij xkeh. kka dh Hkfedk vls fuHkr dks le>us ds fy, p; fur [k.M ouLifr ds I ehi xkoka ea I kelftd vkfkd I o{k.k fd ; k x; kA xkeh. kka }kjk c; Dr iknika dks djhc 230 ctkfr; ka dks vfHkyf [kr fd ; k x; k] ft I ea cdk'B] bku dkr'B] [kk] vls vj pkjk vls jske dhV ds fy, I Hkj ikni vls dN vU; xSk mi ; kx 'kfey ga v/ ; ; u {s= ea vfHkyf [kr egroi wZ cdk'B mRiknd o{k ga VfeLsy; k ekbfj; k dki kZ vkVdk i i pkek] fepfy; k ekvku] dk Vskf I I vkeZ/k] I h- Vhbcy kMI] LVhfj vk i ee phyk kMI] ehl w k Qhjh; k vls fLdek okfyptA esdyl cdkhfl uk] fyVI h; k ekvki hVkyk] fyVI h; k D; wick vls ghVhjsi uDI Ysjl tS h dN ctkfr; kajske dhV ikyu ds fy, I Hkj ikni ds #i ea xkeh. kka }kjk c; Dr dh tk jgh ga unhrV {s= ka ds I ehi ds [k.M ka ea dskel Vhubl vls fdyuksthuh MkbVkek ds I kfk & I kfk ysjLVke; k Li hfl vki k] fcLdkSQ; k tkolfudk] cEcdI I hck vls cfjxVksu; k , dhvayk dh c/murk ga vfHkyf [kr dN vU; vkfkd iknika ea ga , fDoyfj; k , xkykpk] dsufj; e jfl fuQhje] I fyDI VsrLi ek] fydw yk i sVkvk vls fyfoLVksk tdufl ; kuk vkfna [k.M ka ea miy/k foHku [kk] Qy nsokys ikni] xfl i u; k ctkfr vls I htft; e ctkfr] fMyfhu; k bfUMdk vls Ohl kQkbye ytl hvks/e] cdjih; k I kfi Mk] QydkvZ; k tckel vls bybxul dks/kv] dh vusl ctkfr; kag bu [k.M ouLifr; kadsfbrgkl dh tlp dh xbz vls ; g ik; k x; k fd dfr] jske mRiknu] pk; [ksh tS h dN vU; Hie mi ; kx i) fr; kadsfoLrkj vls xlp {s= kadsfoLrkj ds dkj.k [k.M ouLifr {s= Rofjr nj ij ?kv jsga

vle ea car ctkfr fofo/krk

vle ds fngax & irdkbz ou; tho vH; kj.;] fMcaI [kksk tbe. My fjtoZ fxccku ou; tho vH; kj.;] dkftjack jk"Vh; ikdZ dkfcZ, axyak ou; tho vH; kj.;] uEckj & Mkojx ou; tho vH; kj.; vls y [kheij ds ikk vkj {kr ou vls /khekthftys ds ikk vkj {kr ou ea car ctkfr dh [kst dh xBA car dkfcZ, axyak ou; tho vH; kj.;] uEck & uEckj & Mkojx ou; tho vH; kj.;] fngax & irdkbz ou; tho vH; kj.;] dkftjack jk"Vh; ikdZ ea xP Nskj i kuz/ ea ik, tkrsga tcd fxccku ou; tho vH; kj.;] fMcaI [kksk tbe. My fjtoZ ea ctkfr LFku ea car xfe fNrk, gq feyrs ga igpku dh xbz rjg car ctkfr; k fkh & dkel Vhubl] I h- QydkvZ; kMI] I h- QydkvZ; kMI] I h- x#ck] I h- yfoLky; I] I h- uEck hbfuI] I] I h- [kfi , ul] I h- fdix, ul] I h- xfl fyl] I h- bjhDVI] I h- yhlVki sMDI] Mhekukj kst t h dful ; kuk vls I sykd I h dMMk dkfcZ, axyak ou; tho vH; kj.; ea mPre ctkfr fofo/krk gfl y dh xbz tglal s12 car ctkfr; k I fpr dh xBA 289-8 ± 5-2 , dy@gDVsj ds dty iqtzu ds I kfk dkftjack jk"Vh; ikdZ ea car dk mPre ?kuRo 1532-3 ± 12-0 , dy@gDVsj 1/2 ik; k x; kA v/ ; ; u LFkyka I s I Hh car ctkfr; ka ds co/; ka dks , d= fd ; k x; k vls okuLifrd m | ku] o"kkzou vud Vku I h Fku] tkjgkv ea c'n ku Hk [k.M ea I jf {kr vls LFkfr fd , x,A

dkftjack jk"Vh; ikd ea vkfkdVhjk dh tsofofo/krk dk v/ ; ; u

dkftjack jk"Vh; ikdZ ea vkfkdVhjk ds tsofofo/krk v/ ; ; u us foHku vkokl ka mnkgj.k & dkftjack jk"Vh; ikdZ dh ou Hie; k I okuk vls ?kkl Hie; kaea 30 oak vls 4 ifjokal I s l fV/kr fVMMka dh dy 36 ctkfr; ka dks mn?kVr fd; kA , OhMMk dk I cl s T; knk ctkfr cfruf/kRo 149 ctkfr; k 1/2 Fk]



bl dsckn VfrVxkbuMk 1/9 ॐ tkfr; k1/2dk Fkk tcf d U; wre ॐ frufuf/kRo d0y 3 ॐ tkfr; kadsl kFk xbfyMk ifjokj dk FkA dkftjak jk'Vh; ikdZ dh ?kkl Hkfe; ka us T; knk I ॐ; k ea vkFkkzVhjk ॐ tkfr; ka1/21 ॐ tkfr; k1/2 dsvkU; fn; k] bl dsckn I okuk vkSj ou Hkfe; ka1/9 ॐ tkfr; k1/2 dk jgkA bl dsvykok] vkFkkzVhjk ॐ tkfr; kadh vkcknh vLFkjrk usmYys[kuh; fofHkurk dksn'WZ k] tkso'kZ ds ekS e ij fuHk] gSvkSj ॐ tkfr fofo/krk tuojh&vcSy ea fuEure Fkh tcf d tykb&vxLr eavf/kdre FkA

ukEckj vkj{kr ou dh ikni fofo/krk

ukEckj vkj{kr ou ea DokMV fof/k }kjk , d ikni&l keft dh; v/; ; u fd; k x; k vkSj ॐ R; d LFku ea1 gDVsj LFkfir fd; k x; kA fN; kuos ॐ tkfr; ka ds fy, ckjEckjrk] ?kuRo] vk/kfjr {ks= tS s fofHku ikjflFkr dh; i] kehVjka ij vkMVs, d= fd, A l hekar xkpa ea l keft d&vkfFkd l o{k.k fd; k x; k vkSj dke ykek Bh , oaf'kykuhtku {ks=kaeacktkj l o{k.k fd; k x; kA

1/4[k1/2 i f' peh fgeky;

ftyk pEck] fgeky ॐ ns k ds dkykVW [kft; kj ou; tho vH; kj.; ea iknih fofo/krk dk ikjflFkr dh; eW; kadu mlurk'kh; ॐ o.krkvka dsrgr dkykVW [kft; kj ou; tho vH; kj.; dsfy, ouLifr dk ikni&l keft dh; fo'ysk.k fd; k x; kA nkudqM l s T; ks ea fi l h; k fLeFFk; kuk] focjue b#chl bl vkSj cthfu; k fl fy, Vk dh ॐ /kurk ds l kfk ikni ॐ tkfr; kadh d0y l ॐ; k 70 FkA nkudqM l s , yk ea fi l h; k fLeFFk; kuk] l kdkkdk l kfyXuk] focjue b#chl bl vkSj osyhfj; kuk tVkekd h dh ॐ /kurk ds l kfk ikni ॐ tkfr; kadh d0y l ॐ; k 94 FkA ekVwh l s ddkyk ea ikni ॐ tkfr; kadh d0y l ॐ; k 106 Fkh vkSj fi l h; k fLeFFk; kuk] l kdkkdk l kfyXuk vkSj osyhfj; kuk tVkekd h ॐ /ku ॐ tkfr; kaFkA enjukh l s [kft; kj ea ikni ॐ tkfr; kadh d0y l ॐ; k 103 Fkh vkSj i l h; k MfFkvkb] fi l h; k fLeFFk; kuk] l kdkkdk l kfyXuk vkSj osyhfj; kuk tVkekd h ॐ /ku ॐ tkfr; k

FkA nkudqM l s [kMxk] ea ikni ॐ tkfr; kadh d0y l ॐ; k 108 Fkh vkSj l hM9 nonkj] fi l h; k] l kdkkdk l kfyXuk] l kscfj; k VkeuVkd k vkSj #eDI usikyul l ॐ /ku ॐ tkfr; k; FkA dkykVW l s ddkyk {ks= ea ikni ॐ tkfr; kadh d0y l ॐ; k 97 Fkh vkSj l hM9 nonkj] l kdkkdk l kfyXuk] #eDI usikyul l vkSj osyhfj; kuk tVkekd h ॐ /ku ॐ tkfr; k; FkA dkykVW l s rykbZ {ks= ea ikni ॐ tkfr; kadh d0y l ॐ; k 115 Fkh vkSj l hM9 nonkj] l kdkkdk l kfyXuk] cthfu; k fl fy, Vk vkSj fi yh; k fl0IVk ॐ /ku ॐ tkfr; k; FkA [kft; kj l siksy ea ikni ॐ tkfr; kadh d0y l ॐ; k 129 Fkh vkSj ikbul jkMl c?kkb] DosZ k Y; wks/kbdkQkj] #cl fuoh; l] jk/kk/BN/ku vkckjh; e] , ukQsYl VRbflyufoZ ॐ /ku ॐ tkfr FkA xS/ l s T; ks ea ikni ॐ tkfr dh d0y l ॐ; k 107 Fkh vkSj DosZ k Y; wks/kbdkQkj] fi l h; k fLeFFk; kuk] c0k] j] , fjLVkV] focjue b#chl bl] #eDI usikyul l vkSj , ukQsYl VRbflyufoZ ॐ /ku ॐ tkfr; k; FkA ydMe.Mh l s [kft; kj ea ikni ॐ tkfr; kadh d0y l ॐ; k 103 Fkh vkSj



fMftVsy l i i j h; k



dsyBFkh VRbdfjukV



[kft; kj >hy dk n';



I hM¹ n^onkj] I k^ofj; k V^keuV^kd k v^ks
o^syhj; kuk tV^kekd h c/kku c^tkr; k; FkA c^tkr; ka
dh vf/kdre I ; k [k^t; kj I s i^kjsy ea v^fh^kfyf[kr
1/429 1/2 dh xb] bl dsckn dkyV^kM I srykbZ 1/4 15 1/2 v^ks
nkudqM I s [kMxkV 1/4 08 1/2 jgA 8 xkpa ea ekuo
okuLifrd v/; ; u fd; k x; k v^ks fofHku mi; kskads
fy, c; p^r 40 ikni c^tkr; kads^cy^s[kr fd; k x; kA
{k^s-ka I s v^fh^kfyf[kr I dVLFk ikni c^tkr; k; FkA
i kMkQkbye g^ol kM^e] V^ol I okfyf; kul]
t^ofkk^ol hye vkfe^e v^ks fl U^eke^e rekyk A

gfel mPp A^pkbZ jk^vh; ikd] ynⁿk[k]
t^eEwo d'ehj ea ikni h fof^o/krk dk , d
i kfj^fLFk^rrdh; eW; ka^u

gfel mPp A^pkbZ jk^vh; ikd] dks #Ecd
?kVh eai kfj^fLFk^rrdh; , oaxh^odj. kRed v/; ; u fd; k
x; kA foLr^r v/; ; u dsfy, fofHku fclnqme#RI s
1/4200 eh-1/2 xUMk yk 1/5100 eh-1/2 LVkcl yk 1/5000 eh-1/2
eUl dkjekg 1/4800 eh-1/2 plax 1/4300 eh-1/2 v^ks LVkcl
1/3900 eh-1/2 v^kfn FkA ikdZdsLi r^o] ekV^l hyk^o] ekf^kM⁺
v^ks gfel I s Hk ikni h I xg. k fd; k x; kA fofHku
mPp A^pkbZ dⁱ LFkyk ; Fk^o&fp^oya^o 1/3800 eh-1/2



v/kkly mPp A^pkbZ jk^vh; ikd] ynⁿk[k] t^eEwo d'ehj
ea ikni fof^o/krk dk I o^ok.k



okY/hfe; k Xyct



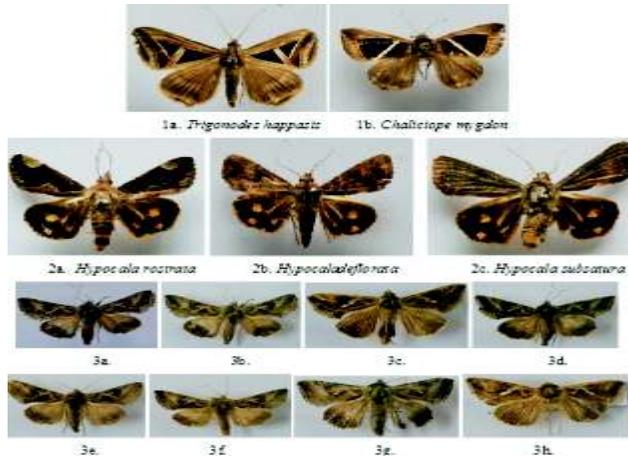
Fk^ol I c^lo^ok

dk; k 1/3700 eh-1/2 LD; w 1/3800 eh-1/2 ekj [k 1/4000 eh-1/2
f'kaks 1/4200 eh-1/2 v^ks pyd 1/3600 eh-1/2 v^kfn ij {k^s- dh
ekj [k ?kVh ea xgkbZ I s ikf^fLFk^rrdh; , oa
oxh^odj. kRed v/; ; u fd; k x; kA I xgky; dsfy,
foy{k. k uewsdⁱknⁱ h I xg. k fd, x, A xkp dsc^o x^ok^o
xkbMka v^ks vkfpl ds I kFk v^ks pkfjd
ppk^ofopkj & foe'kz ds }kj^o ekuo & okuLifrd I p^ok
, d= dh xbA

fgekpy cⁿs k ds fofHku 'kad^o{k ouka ea
uk^oV^oM 'kyHka 1/4 y^fi M^ksV^jk % ukD^oV^oMk^o
dk oxh^odj] t^ofofo/krk v^ks vkokl I dU/k

eyku] I jh?kV] V^kmuH^okj] Fk^ov^os] f'keyk]
> > syh] [k^t; kj ukdZM^o vDⁱ k] Hk^ojekj] euky^o] iV^oVu
?kVh v^ks vl jk^s I s 'kyHk 1/4 y^fi M^ksV^jk 1/2 uews, d=
fd, A bu c^tkr; ka }kj^o ij i^kskh 1/2 d^oy p; fur 'kad^o{k
, oa I Ec) ouLif^r 1/2 dks ig^okbZ xbZ {kr dks Hk
v^fh^kfyf[kr fd; k x; kA I d^ol/kr ij i^ks'k; kads^ouk^oV^oM
c^tkr; kadsuk'kht^o Lrj dks dks B^oka^oefn; k x; k g^o
mnkj. kFk & V^odk^oy^ol ; k v^kl^o d^ol h; k Q^osc^ol ; I
1/2 c^og^o{k^o} n^onkj ouka dh 'kcd^o , x^oVI I h^oh^ove
1/2 n^onkj rFk vl; 'kad^o{k^o ds dVoke] c^og^o{k^o}
Li kMk^oV^oh^ok fyV^oj^o Q^osc^ol ; I 1/2 c^og^o{k^o} Li kMk^oV^oh^o
fl fy; e] x^ouh 1/2 c^og^o{k^o} lyh^odk^oV^oh^ok jhQy^oDI k]
x^ouh 1/2 p^oM+ i^o kbu {k^s- ea M^osc^of^ot^oz k fl LI wds^oce^ol k
uk'kht^o 1/2

pk^og v/; ; u LFkyk dk p; u fd; k x; k v^ks
bu LFkyk^o sy^fi M^ksV^jk ds 2740 uew^okd^os, d= fd; kA
buea I s 663 uk^oV^oM Fk^ov^os d^oy 66 c^tkr; ka dh
ig^oku dh xbA rhu LFkyk^o s'kcd] > kM^o v^ks o^o{k^o i j
v^ko^oM^o v^fh^kfyf[kr fd, A i^ork^oyl ig^oku dh xbZ
c^tkr; kads i^o k f'kj^oou; kl v^ks tuul^oak dk fooj. k
i^ojk fd; k x; kA uk^oV^oM 'kyHk^oads^ovk^okl kads I e>us
dsfy, 3 LFkyk^ods ikni t^ofofo/krk ij v^kt rd ds
v^ko^oM^oads^ofo' y^okr fd; k x; k v^ks euky^oh ds Q^oj v^ks
L^oQ^o ou ds ikni t^ofofo/krk v^ko^oM^o us n'kz; k fd



fp= 3 , 1s3 , p oak Øhl kmhFDI I dh iztkfr; ka

fil h; k fLeFk; kuk bl ds ckn , fct fiUMks dh
 ç/kkurk dsl kFk o{k çtkfr; ka dh I ã; k 8 FkA çjçfj/
 vkfjLVkV bl ds ckn #cl fuoh; I dksç/kkurk ds
 I kFk >kmh çtkfr dh I ã; k 14 FkA , ukQsfi/
 VkbfyuhfoI bl ds ckn Ýxçj; k bfUMdk dh
 ç/kkurk dsl I kFk 'kkd çtkfr; ka dh I ã; k 55 FkA o{k
 >kmh vçj 'kkd çtkfr; ka dsfy, ç/kkurk dh rkfydk
 ¼ h eku½ 0-328] 0-099 vçj 0-035 Fkh tçfd fofokrk
 rkfydk ¼ p½ Øe'k% 1-408] 2-458 vçj 3-630 FkA ; g
 fu"d"l fudkyk x; k fd vf/kdkak ikni çtkfr; ka dk
 forj.k fudVLFk FkA nI jsLFky mnkgj.k&euyh dk
 nonkj ou ea I hM¹ nonkj bl ds ckn ikbul
 çkyfp; kuk dh ç/kkurk dsl I kFk o{k çtkfr; ka dh I ã; k
 2 FkA I kdkkdk I kfyXuk bl ds ckn I hM¹
 nonkj cky o{k ka dh ç/kkurk dsl I kFk >kmh çtkfr; ka dh
 I ã; k 17 FkA #eDI uskyfUI I bl ds ckn
 thjkfMZ kuk Mkbofi Qkfy; k dh ç/kkurk dsl I kFk
 'kkd çtkfr; ka dh I ã; k 52 FkA o{k] >kmh vçj 'kkd
 çtkfr; ka dsfy, ç/kkurk dh rkfydk ¼ h eku½ 0-927]
 0-120 vçj 0-041 Fkh tçfd fofokrk rkfydk ¼ p½
 Øe'k% 0-161] 2-422 vçj 3-457 FkA vf/kdkak ikni
 çtkfr; ka dk forj.k bl {k= eahh fudVLFk FkA igpku
 ds ckn çtkfr ds fy, miyC/k I kfgR; dks n[çkj
 ij i ksh ikni dksHh I çuf' pr fd; k tk, xkA

'khr jfxLrkuka dh çed[k çtkfr; ka
 ½ dç fjI fLi ukd k] fjchl vçsj, UVsy]
 dç kxkek thjkfMZ; kuk] dkWymh; k
 uhi syfUI I] ØV/xl I kççj dk] bybxul
 vççLVQkfy; k] fgli kQh jçukbMI
 vçj jkd k ohc; kuk½ dk ikfjLFkfrdh;
 v/; ; u

fgekpy çns k dsX; j Vckç ekuç ykMkç] dçj Fk]
 gjfyak ea vçj fLifr ?kVh ea vkus okys I ençj eç
 ykçjç ?kVh eafI LI jxkkyk vçj mn; ij rFk fduçjç
 ftyseafLi yç ij vçj [kk eaçtkfr igpku dsfy,
 foLrr ikfjLFkfrdh; v/; ; u fd, x, A



dkWymh; k uskyfUI I



dyela }kç ØV/xl I kççj dk



çhtka }kç ØV/xl I kççj dk



fohku iztkfr; ka dk {k= jki .k



fjchl vçsj, UVsy



1/2 e/; Hkkjr

Lkky vks I kxksu bZks/ksu {ks= ea ikni fofo/krk

nks bZks/ksu LFkyka txnyij NÜkhl x<½ ea , d vks ni jk mefj; k ½-½ e/ dk v/; ; u fd; k

x; kA bZks/ksu ds l ehi I ky vks I kxksu ou dh ç/kkurk okys nks LFkyka dk rgyukRed v/; ; u Hh fd; k x; kA nksuka v/; ; u LFkyka ds I ky vks I kxksu dh vi\$kk bZks/ksu tksu eavi\$kkdr T; knk o{[k



bZks/ksu {ks= txnyij NÜkhl x<+ea vhd o{[k

>NÜh vks 'kkdka dh I ç; k ikbZxbA vkkdMkousn'kkz; k fd I kxksu ou dh I rgh enk çdfr eamnl hu ¼-0½ l sgydh {kkjh; Fkh tcf d I ky ou eanek vEyh; ½-5½ FkA bZks/ksu {ks= dh enk dh ih, p- I kxksu vks I ky oukadschp ¼-2½ ea ikbZxbA dkcZud dkcZu çfr'kr bZks/ksu vks I ky ou ea yxHx I eku ¼-12%½ Fkh] tcf d I kxksu ou e/ eku vi\$kkdr fuEu ¼-65%½ FkA nksuka bZks/ksu LFkyka ea fuEu funkd çtkr; ka ikbZ xb% MYcftZ k yfVOkfy; k] fyVI h; k Xynvkd k] vfeZufy; k phcnvkl] LVj dfr; k ; j b l vks gksy j ghuk , fUVMkbZ fUVdk o{[k çtkr; k] 'kkd vks i ksk volFkk ea fyVI h; k Xynvkd k >NÜh vks Mk; k; i kbj kst ehysukd I hykkl ikni I kelftdh; v/; ; u usn'kkz; k fd bZks/ksu LFky ea o{[k >kfM; ka vks 'kkdka dh fofo/krk mPp FkA rFkfi] fo'kd I ky , oal kxksu ou ea ; gh vi\$kkdr fuEu vfhkryf[kr fd; k x; kA

o{[k çtkr; kae/ VDVkuk xBMM nksuka LFkykads bZks/ksu {ks= eamPpre ivi okyk vks ç/kku ik; k x; kA



bZks/ksu {ks= mefj; k] e/; insk ea I ky vks I kxksu o{[k

ckyo{k volFkk ea 'kkjh; k jkkk Vk txnyij eaç/kku ik; k x; k vks mefj; k LFky ea dfl ; k Vksj mPpre ivi okyk ik; k x; kA nksuka LFkuka %ou ds Hkhrj vks ckgj½ ea I keld; r%1 fM-l s dk rkieku vlrj ns[kk x; kA bZks/ksu vks I kxksu ou uscgq de foHkUrk fn[kkbZfdUrqrkieku I ky ou dh vi\$kk çR; {k #i I s mPp FkA I ky ou dk rkieku %ou ds Hkhrj½ vi\$kkdr fuEu vfhkryf[kr fd; k x; kA

nks LFkyka ds I ky çHkoh {ks= ea vknZk çfr'krk vi\$kkdr mPp Fkh tcf d nksuka LFkyka ds I kxksu çHkoh {ks= ea eku vi\$kkdr de FkA bZks/ksu tksu ea eku chp ea ik, x, A I ueiknih v/; ; u us mn?kVr fd; k fd txnyij , oamefj; k LFky ds bZks/ksu tksu eadodh vkcknh fo'kd I ky vks I kxksu oukadh vkcknh I svi\$kkdr T; knk FkA

vpudekj & vej d d thoe. My fj toZ

vpudekj & vej d d thoe. My fj toZ ds I Hh rhu {ks= kadsouLifr Lrj] ouLifr] çkf.ktkr dh çtkr; k] I dVLFk çtkr; ka dh I ç; k vks ekuo vkcknh ij vkcdMk dk çy[k i ksk. k fd; k x; k vks fo|eku I phk dk v | ru fd; kA ouLifr dh I ph ea 'kkfey g&vkørçht; ka dh IIII çtkr; k] 16 vukørçht] 40 vsjMkQkbV] 16 çk; kQkbV] 130 ykbdus] 178 dodh vks , Yxh dh 7 çtkr; kA çkf.ktkr dh I ph ea 'kkfey g& Lruik; h dh 27 çtkr; k] 142 i{khx.k] 15 Nhidyh vks I k] 10 mHk; pj] 16 eh] 27 Hkzd o >hxyj] 85 frfy; ka vks 'kye vks du&[ktjka 5 çtkr; kA xj çdk'B oumRi knkads I o{k.k I sxlp cktkj 0; ki kj ea yxHx 39 çtkr; k; kdk i rk pykA ckb, uyy çk; kQs j fj toZ buQkjesku I hjht ½ch-vkj-vkbZ, I ½oKy; w1 ¼ o 2½ dk çdk'ku fd; k vks oSkfudka, oach- vkj- çclvkdads chp ifjpkfyr fd; kA eBMM dk; Z ; kst uk ds rgr I hosy LVShth }kj k çLrkfor , d ç' ukoyh r\$ kj dh xbA çk; kQs j fj toZ ds fo'o uVodZ ea ukeddu ds fy, vpudekj & vej d d thoe. My fj toZ ij , d



iwlz nLrkost r\$ kj fd; k vls NÜhl x<+ds jkT; ou foHkx dksLrnf fd; kA

o"KZ 2009&2010 ds nlsku MKYek ou; tho vH; kj.; ea p; fur çtkfr; ka ea vk/kj jçkk vkkMk l ftr djusdsfy, ouLifr l jupuk dh ikfjLFkfrdh; xfrdh vls vdkfjdh; vuqnyh foHkUurk dk eW; kadu fd; k x; kA l p; h Hkfr d mi yfC/k; kafuEukuq kj g%

- pkjk jatk dks 'krfey djds vH; kj.; ea dty 16 uewk Hkfr k.M r\$ kj fd, x, A
- ikin uews ,d= fd, vls l xgky; r\$ kj fd; kA
- vc rd 66 iknika dh igpku dh xbz vls çekf.kr fd; kA
- Nky vls iÜkh ikkd vkdyu grq esyktv/ fQfyi fUI l tS sgkFkh [kk] dh dN çtkfr; ka ,d= dh xBA

¼?k½ nf{k.k Hkkj r

m".kdfVcu/kh; l nkgfjr ou ea l jupuk] fofo/krk vls vadg .k l ay{k.k i fj .kke %LFkk; h i fj j{k.k Hkfr k.Mka dk mi ; ksx djds dukd/d ds i f' peh ?kkVka l s, d ds v/; ; uA

1937&2008 rd i f' peh ?kkV] dukd/d ds m".kdfVcu/kh; vknZ l nkgfjr ouka ds nf{k.k] e/; vls mÜkj Hkx eavkusokysokys3 LFkykaea i k; k & ekdWk] epkyMndk vls esyheks ea LFkk; h i fj j{k.k Hkfr k.Mka ds ,df=r vkkMk adk okuLifrd fo'ysk.k i jk fd; k x; kA fofo/krk rkfydk] l ekurk rkfydk] vkcknh l jupuk tS s i skehVjka dh tkp dh xBA pkj iqtZu Jskh oxkads vuq kj LFkk; h i fj j{k.k Hkfr k.Mka dk çrfuf/Rro djus okys bu ou fdLea ds iqtZu #>kuka dh x.kuk dh xBA ekdWk vls esyheks ea ç/kku çtkfr; ka ea fdixvk/MBMku fi us/e ea1-49 l seh- dh vf/kdre ,e-, -vkbZ Fkh] bl ds ckn okbVdI , fYVfI ek ea 1-39 l seh- vls fMIVhjkcdki l bfUMdI ea1-32 l seh- Fkh] tcfD U; wire ,e-, -vkbZ ueh , VhuwV 10-48 l seh-½ eaFkA iqtZu oxZiv eal eL; k Fkh tgkaesyheks dh viçkk fo'kskdj ekdWk eaekuoknHkoh nckoka ds dkj.k i kks LFkfr gksusea vl Qy jgA ekdWk vls esyheks

nksksealFkfrud , oavkj-bZVh çtkfr; kadsekeyseahk ; gh #>ku nçkk x; kA

ekdWk] i f' peh ?kkVka ea mnHkoh o"kkZ ou N=ka eadhVka }kj k cht mRi hMu

ekdWk] i f' peh ?kkVka ea o"kkZ ou N=ka eadhV fuxZu vls cht i jHk{kh dh l hek vfHkfyf [kr dh xBA fMIVhjkcdki l bfUMdI ds fy, {ks= ,oa ç; kx'kkyk vadg .k v/; ; u fd, A ekul w i wZ vof/k ds nlsku uewk ysis ds dk;Z ea cgq de çtkfr; ka ueh , Vhuw Vk vls fMIVhjkcdki l bfUMdI l scht dk mRi knu gqkA gkykd ueh eadhVka }kj fuEu mRi hMu ¼-5% ½ Fkk] fMIVhjkcdki l ds l Hk cht dhVka }kj {kfrxZr fd, x, A os/hfj; k bfUMdk dk cht i jHk{k.k i ; klr Fk tcfD tw 2009 ds nlsku ueh , Vhuw Vk] ekbfjLVdk çtkfr vls fMIVhjkcdki l bfUMdI ea fuEu FkA tuojh l sekl 2009 ds nlsku cht ikru vR; fkd detkj Fk vls chtkal sdbZHk dhV fuxZu ughavfHkfyf [kr fd; k x; kA

i j & LFkkus l j {k.k mi Øe

- çtkfr l p h r\$ kj djuk vls fnYyh] mÜkj k[M ,oa mÜkj çnsk dh l dVLFk çtkfr; ka dk ek=krEd eW; kaduA fnYyh ea cka okVdk dh LFkku
- MBMkdsye l fLVdVI {ks= tuun0; cbl dk i j & LFkkus l j {k.k ou vuq U/kku l bFku i fj l j eaLFkfr fd; k x; kA bl çtkfr dstuun0; eansk ds 16 jkT; kadk çrfuf/Rro gA
- {ks= vuq U/kku LVs ku f [kl j l kks/ha x<oky ea 15 igkMh cka çtkfr dk {ks= tuun0; cbl LFkfr fd; k x; k gA



Ou vuq U/kku l bFku i fj l j ea MBMkdsye l fLVdVI dk {ks= tuun0; cbl



- jk'Vh; ckd fe'ku fu/kf; r ifj; kstuk dsrgr I hv/h I BVj , Q-vkj-vkbZ ea ckd dh fofHkUk ço/kü çkš| kšxfd; ka ds çn'kü vks xqku ds fy, , d Dyksuh; i kšk' kkyk LFkfi r dh xB



ckl iztkr vuq U'ku LVskuj f[kj| i i kšh x<oky ea telykte cbl

gekjsvkjf{kr oukaij ncko dksU; nure djus ds fy, m".kdfVcl/kh; mi&m".kdfVcl/kh; vks 'khrks.k o{k çtkr; ka dsfy, vk'ktud nskt bžku dk'B , oapkj o{k çtkr; ka dsxqkoUk jki .k i nkfkZdk mRiknu fd; k x; k vks bu çedk çtkr; ka ds60]000 I s vf/kd i kška vks tMe) dyeka dk forj.k mUjk[k.M dsmUkjdk'k] #nç; kx vks nsjknw ftyka dsfd I kukæafd; k x; ka



ouka I sbžkudk'B , oapkjs dk I xg.k

I Qyrk dh dgkuh

ckd ço/kü çkš| kšxfd

cht dh vuq yU/krk dsdkj .k jki .k LVkUd mRiknr djusdsfy, ckd dk ço/kü djuk okfudh d'kdka vks m| kška dsfy, geškk , d I eL; k jgh gš ou vuq U'ku I LFku nsjknw }kj , dy xflFky fd'kš çkš dyeka vks 'kk[kk dyeka dh eykri fvk djdsckd ka dh fd I kukæsvuqny] fuEu ykxr ço/kü çkš| kšxdh fodf I r djusdsfy, , d vPNh I Qyrk gkfi y dh xBzga bI çkš| kšxdh dk çkjEHk ea cEcl k o'xsfj I fdLej xhu okfeu vks flV^a, vk dh rhu fdLeka dsfy, ç; kš fd; k x; ka ft I ea 50 çfr'kr I s vf/kd dyeka dks tMe) fd; k x; ka vU; egRo i wkZckd çtkr; kaç; kšxd Lrj eaga

ckd ço/kü çkš| kšfd



, dy , oaf}cggyd 'kk[kk dyeka dh eykri fvk



cEcl k o'xsfj I dh , dy xflFky fd'kš dyeka dh eykri fvk



2-1-5 ou ouLi fr

ou tōfofo/krk ij thoh; dkj dka dk
çHkko

fnYyh ioz Jskh ou eafuEuhdj.k ds dkj.k
vlsj tōfofo/krk eW;ka du fd;k x;ka vkokl
fuEuhdj.k dsfy, mūkjnk; h çedk dkj dka dh vkōked
çtkfr; ka 1/4 çedk kfi l tñyñylykj vlsj ysVvkuk dekjRz
ds QSyko] pjkbz dkV&NkV fodkl kRed dk; Dzyki
vfn ds #i ea dh xBA l dVLFk LFkyka ea çtkfr
l e) rk vlsj fofo/krk rkfydk fuEu FkA i ksk'kryk ea {s=
dh vusdkañst çtkfr; ka 1/4 Mkbvkt. lkkbjkst ekbVvkuk/
csysukbVhl bthfVdk] ikæse; k fi UukVK]
, tSMjDVk bfUMdk] , fYcft; k yæd]
dfl ; k fQLVnyk] gksykVhyh; k buVhfXQkfy; kj
ckEcDI l hck] Vjkt. ijee , l hfjQkfy; e]
MSçftz k fi LI jñftftQI ekf'kz kuk vlsj C; w/h; k
ekuk. i eRz ds mRd"V inkFkz yxk, vlsj i qz ñ ikr
fd; k x; ka

f[kl j i kñh x<ok y vlsj bl dspkj kavlsj ds {s=
ed; r% vkōked çtkfr; ka 1/4; i s/ksj; e , MhukQkj e/
ysVvkuk dekj vlsj vktñeku eSDI dkuRz vx]
fodkl xrfok/k; ka pjkbz vfn ds dkj.k l dV dh
fofHku fLFkr; ka ega çedk o{k çtkfr; kads i qtZu
bu l dVka }kj çHkfor ga ekbfjdk] jka/kA/BMku]
cæfj l tñ h çtkfr; ka dks ij & LFkus l j {k.k dsfy,
l e>k x; k ga

ulnk noh thoe. My fjtoz eoskñ Hkñ? ?kñs
vlsj cdfj; ka ds thoh; çHkoka ds }kj cká xkpa l s
çHkfor ga {s= dks vks/vh; , oavkfkd egRo ds nyEk
, oa l dVLFk ikni ga fi Økj kb tk dj kbk 1/4 dMkohz
l ks yjh; k ylik 1/4 dñkñz , dksuje ghVhj k Qkbye
1/4 vrhl 1/4 fodfVdk LVhokVhZ 1/4 dkyk thjñz LohfVz k
fpjkbk 1/4 pjkbkñz , fy; e dññ l s xbfu; e
1/4 tEcñz MDVhykjfgtk g/s thjk 1/4 gk; k > kjñz
vkññefl ; k çtkfr 1/4 hñukFk ny lñz vlsj jkst
ohfc; kuk vfn

ndkok jk"Vh; i kdZeavkoki fuEuhdj.k dsfy,
vkōked çtkfr; k 1/4 ysVvkuk] , thjñe vlsj
vktñeku vfn 1/2 ds vkōe.k çedk dkj dka l kA
l dVLFk çtkfr; kadh l ph r\$ kj dh xBA tōfofo/krk
l j {k.k vlsj mi ; ks dsckj sea LFkuh; yskædks' k f {kr
djus dsfy, çf' k {k.k dk; Dē vk; k str fd, x, vlsj
fofHku ou foKku dññkaed; k [; ku fn, x, A

jk"Vh; l puk dññz ubzfnYyh dh l gk; rk l s
, d fo'kskK ç.kkyh 'kñkñ] **dk"B 'kñhj l puk
ç.kkyh" fodfl r dh xBA Hkjr dsO; ki kfjd çdk"Bka
dk vkññMk vk/kj l fr fd; k x; ka ; g l kñVos j
Qk/skQka ds l kFk , d cgr l Q; ofLFkr rjhds l s
O; ofLFkr çdk"B çtkfr ds vPNh rjg l æfBr vkññMk
ij vk/kj l puk ds Rofjr l i q% kñr dh vuæfr nrk
ga Hkjr; çdk"B uemkadh igpku cgr Rofjr vlsj
l jyhñr gk x; k ga 'kññjdh; xqka dh U; wre
l q; k ds l kFk igpku dh xBA okñr çtkfr; kadsfy,
okñr xqka dh Rofjr i q% kñr l kko ga fo'kskK
ç.kkyh tkbyfj; e vlsj l ñe & LykbMk tñ s
buYk & l j puk ij 'kñkñkñz; ka, oadk"B mi Hkñrkvadh
fuññrk dks ? kñrñ ga ifjokññ thul vlsj çtkfr ds
vuæfi foy {k.k 'kññjdh; xqk l a kstu mi yC/k ga
ou vuq U/kku l dFkku 1/4 ngj knu
l ægky; 1/2 l ægky; dk vadh; dj . k

5772 çtkfr C; kjs vlsj 27515 uemsC; ijs r\$ kj
fd, x, A uls l kññkñ l h oak] 4725 çtkfr C; kjs vlsj
20015 uemsC; kñkadks vkññMk vk/kj ea l ekfo"V fd; k
x; ka vññkññ gtkj pkj l kññsuewñ Qk/sfy, x,
vlsj 225491 Qk/s dks l Eikñr fd; ka 3175 uemk
C; kñ vlsj uemk C; kñkadks l Eikñr fd; ka

Hkjr; dk"B mudh igpku] xqk vlsj
mi ; ks & okY; ñ & ñ dk l d kks'ku

dk"B xqka vlsj mi ; kska ij uohure l puk
vlsj l ñe l j puk ds C; kñka dks tkññ+ dj Hkjr;



dk"B&mudh igpkul xqkka vks mi ; ksk&okV; e&II dk l akksku fd; k x; kA

fons'kt ikbul ctkfr; ka dk ofxZdh , oa dk"B 'kkjhfdh; v/; ; u

fokhu m".kdfVcu/kh; phM+c'tkfr; ka ea vUrj djus ds fy, fons'kt phM+c'tkfr; ka dk ofxZdh , oa dk"B 'kkjhfdh; v/; ; uA

Hkkjrh; dBksj dk"Bka dk cfrnhlr v/; ; u

I Hkh Hkkjrh; dBksj dk"Bka dk mudh igpku ds mnas; ds fy,] cfrnhlr 0; ogkj v/; ; u djus ds mnas; dsl kfk v/; ; u fd; k x; kA

i kW; gyI MsyVokbMI ckVj- , EI ek'kz ea dk"B 'kkjhfdh; fo'k'kdka dk oa kkupe i kS/uz

vUrjfd vks ijLij&'kk[kk fofhuurkva ds fy, vks dk"B fo'k'kdka soa kkupe i S/uz ds c'k.k ds fy, tud 1/4 th 48 vks th 3 1/2 rFk , Q1 vks , Q2 l Urfr; ka dh 60 'kk[kkva ls l kr l S uems fy, ifj; kstuk dsegROI wZifj. ke bl cdkj g%

- fofhuurk ifj. ke vuqkr tkp 1/4 Q 1/2 usn'kz k fd th3 vks th 48 nksuka Dyksu jsk yEckbZ jsk 0; kl] okfgdk rRo vks vki s{k'kd ?kuRo ds fy, egROI wZ#i l fhuu FkA
- jsk yEckbZ jsk 0; kl] okfgdk rRo yEckbZ vks nhokj eks/kbZ th 3 1/2 j dh vi s'kk th 48 1/2 eamPp FkA
- okfgdk rRo 0; kl vks vki s{k'kr ?kuRo th 3 1/2 Dyksu 1/2 ds fy, mPp FkA
- ;g n'kz k gSfd enk Dyksu ea cgrj jsk ifjeki gStcfd uj ea cgrj vki s{k'kr ?kuRo gA
- vki s{k'kd ?kuRo vks okfgdk rRo ifjeki eTtk l s ifj/k l Fkuka rd egROI wZ #i l fhuu FkA

- okfgdk rRo 0; kl vks vki s{k'kd ?kuRo ds fy, ApkbZ gsrq vUrjfd 'kk[kk fofhuurk egROI wZ FkA

i kW; gyI MsyVokbMI ckVj- , EI ek'kz ds Dyksuka ds dk"B xqk vks of) dk eW; ka duA

foeds l Hfy l fy- }kjk mxkbZ xbZ 50 l Urfr; ka l s uems , d= fd, vks fofhuu dk"B fo'k'kdka ds fy, fo'ys'k.k fd; k tk jgk gA

; idfy l VI gkbfcM ds Ard l w/kz i kni ka dk {ks= eW; ka du

; idfy l VI ds nks vk'kktud , Q 1 gkbfcM] , Q- vkj- vkbZ 5 1/4 idfy l VI de Ymfyuf l l x ; id s Vj s Vdk l u l 1/2 vks , Q- vkj- vkbZ 14 1/4 id s Vj l hfy; kuk x ; id s fl fV vka l kj R/2 dks Ard l w/kz }kjk xq. kr fd; k vks {ks= eajki r fd; ka kni N% l ky ds FkA v/; ; u fd; k x; k y {k. kka mnkj. k&LFky ka ds pkj ka vks nksuka gkbfcM ka ds kni ApkbZ l kQ l rEHk yEckbZ 0; kl vks vk; ru] ea egROI wZ fofhuurk FkA , Q- vkj- vkbZ 14 ea [kj dku LFky gk'k; kjig ea o {kka prk ij ApkbZ vks 0; kl vf/kdre Fk tcfd , Q- vkj- vkbZ 5 eagY} kuh LFky ea o {kka prk ij ApkbZ vks 0; kl vf/kdre FkA

2009&2010 ds nks ku okfudh cht cek. khdj. k , t l h ds dk; Z ij d bhr djrs gq > kj [k. M dh vkfFkd #i l segROI wZ okfudh ctkfr ij cht vk l M k vk/kkj dk l tu fd; k x; kA l p; h Hkrd mi yfC/k; ka bl cdkj g%

- Hkrd vks 'kkjhfdh; v/; ; ukadsfy, 20 l s vf/kd ctkfr; kadscht kack l tuA
- , df=r ctkfr; kadscht kads Hkrd i s kehVj ka 1/4 Fk&cht Hkj] yEckbZ vks pks l kbZ vk; ru] jx] cht @Qy Hkj v l fn 1/2 j v/; ; uA
- , df=r ctkfr; ka dh ckj fEHkd ueh ek=k vks v l j. k cfr'krrk rFk cht ka dh nj ij v/; ; uA



- ifjoskh ,oa 'khr rkiekuka ds rgr ik=ka dh fofHku fdLekaeacht Hk.Mkj.k ij ç; kxA
- Hk.Mkfjr chtkadh vadj. k{kerk dks 3 ekj] 6 ekj vls] 1 o'kz Hk.Mkj.k ds mi jkkr fo'yf'kr fd; kA

2-1-6 tutkr ,oa ikjEifjd Kku ç.kkyh

vkU/kz çns'k ea i wdz ?kkVka ds mÜkjH Hkkx dk ekuo okuLi frd v/; ; u

vkU/kz çnsk ds Jhdktye] foft; kuxje vls] fo'kkiVVue ftyka ds fy, ekuo okuLifrd #i ls egRoikz ikni çtkr;ka dks igpku djds l pphc) fd; kA

- l æfU/kr {ks=kael okjk] [kkb] tkvki jv dkaMkMkj kj uadkMkj kj cxxkFkk vls] ij tk tutkr;ka ls 180 iknih VDI k ij ekuo okuLifrd vkU/Ms vfHkyf[kr fd, A
- egRoikz vksk/kh; iknika ts &, ykdfi ; k QkUzdkvk ¼kko½ vktzfj; k uokl k ¼QkMk vls] QOkkyk½, fjl hek vkUzkd e ¼vYl j½ ds ¼ihfu; k ckUM; wd ¼kjhj nn½ djh; k vkckjh; k ¼jSkk½ DyhjkaMMe l hj½e ¼vLFk Hkx½ d d d r y x s vkfdzkbMI ¼v½ nn½ d d d e k L; Mkek d vkuk ¼ropk jks½ Mk; k i k b l s t ekykcfjd k ¼vLFk Hkx½ Qkb d l j s l h e k s l k ¼i h f y ; k ¼gkshVhyh; k bUVfxQkfy; k ¼kka h vls] BM½ fyfi; k tkokfudk ¼chVuk'kh; ½ E; wduuk çfjUl vekl iskh nn½ ikohvk bfUMdk ¼kko½ ikyh, fyFk; k l w h j k d k ¼c q k j ½ vls] ftftcj jkd h; e vekl d xMeM½ ds mi ; k s x r k igy vka dks igyh ckj vfHkyf[kr fd; kA

dy 143 ikni uenka dks ,df=r fd; k vls] l xgky; rS kj djds igpku dh xBA mi yC/ l kfgR; l s ,df=r ekuo okuLifrd vkU/Mka dh l eh{k vls] tkp dh xBA



vktzfj; k uokl k

djh; k vkckjh; k

e/; çns'k ea l ri M k i Bkj ds tutkrh; i kUz/vka ea çpfyr ekuo & vksk/kh; mi ; k s x ka ea i kni ka dk mi ; k s x i s / u z

e/; çnsk ds ekUMyk] tcyij] dVuh vls] fNanokMk ftys ds tutkrh; i kUz/vka l s ikjEifjd 'kdh; fpfdRI dka } ikjEifjd Kku dk çy[ku fd; k x; kA dy feykj vksk/kh; egRo ds 327 ikni k ftudk mi ; k s tutkrh; @LFkkh; ykcka ds çp çpfyr fofHku jkska ds mi pkj ds fy, mi ; p r pkj ftyka ds tutkrh; i kUz/vka ds 80 ikjEifjd 'kdh; fpfdRI dka } j k j k mi ; k s fd; k t k j g k g s d k s ç y s [k r fd; k x; kA

l w h d j . k d s l k f k f o | e k u mi ; k s t u i s / u z v l s] f o f H k u v k e j k s k a d s f o #) i k j E i f j d ' k d h ; f p f d R I d k a } j k j k mi ; k s fd, t k j g s v l s / k h ; i k n i k a d s mi pkj vkfn dks kh çy[k r fd; k x; kA

'kdh; iknika ds foi . ku ea 'k f e y e k / ; e k a d s ç y [k u d s f y , e / ; ç n s k d s e k U M y k] t c y i j] d V u h] l r u k] f N a n o k M k H k s i k y v l s] l k x j f t y k a e a l o k . k f d ; k x ; k A 0 ; k i k j i j l p u k , d = d j u s d s f y , ' k d h ; i k n i k a @ H k x k a d s 0 ; k i k j e a ' k f e y 3 7 0 ; k i k f j ; k a l s l E i d z f d ; k x ; k A d P p s ' k d h ; v l s / k h ; i k n i H k x k a d h f c Ø h d h d h e r l j p u k L F k k u h ; 0 ; k i k f j ; k a l s , d = d h x B A

tutkrh; ,oa LFkkh; l epk; ka ea forj.k vls] tkx#drk l'tu ds fy, vksk/kh; iknika ds mi ; k s vls] l j { k . k i j i E Q y v v l s] L y k s u ç d k f ' k r f d , x , A



ikj ¼ekbyDI thyfudki½



gFkOku ¼yh; k eDkOkbyki½

nškt ikjEifjd Kku dk çys[ki kš.k.k , oa I phdj .k

>kj [k.M dsnškt ikjEifjd vksv/kh; Kku dk çys[ki kš.k.k , oa I phdj .k fd; kA ouka , oa 'kkd 0; ol kf; ; kaI sikni inkFkZdsI xzj.k dsfy, gtkjhckx ftysdsInj] piyph ckj dkbk] fo".kx<+Cykdka yVgj ftys ea ckjokfMg] x#I Cykka] iykewftys ea p&i g Cykka] I kfgcxak ftys ds ckj tkš cugth vks ekUMks

Cykka]kavks >kj [k.M dsbz fl gHkie ft ykadsMyHkx<+ vks pdfy; k Cykka]kack I oš.k.k fd; k x; kA

- >kj [k.M dsfd I ku [kkjokj] dkjekyll fcjgkj] I kš kž igkfj; k] eka-yh vks I cj tutkrh; I engkack v/; ; u fd; k x; kA

- Ikni ; Fkk& okbVDI ihMudhyfjI ¼ukxcsy½ ghfyDVjI bl kjk ¼ UFKkž , fjLVksykfd; k bfUMdk ¼oZojewy½ ghfVI I ohvksyDI gkFkh i d j] fdyksvks dšj; k Vgksy ghuk , fUVMkbl fUVDkž dšys/vsi I çkd hjk ¼ On fdLe½ I kbi h j I jkš/UMI] bšve dkmUt kbMI vks , fjLVksykfd; k bfUMdk , d= fd, x, vks okmpj uews ds #i ea ifjff{kr fd; kA

- ckFkMh] fcjfx; k] fcjgkj] phjks dkjekyll [kkjokj] fdI ku] ikjfg; k I kš kž igkfj; k vks I kcj tutkrh; I epk; kaI sl æfU/kr yxHkx 85 'kkdh; çSDV' kujkaI svc rd mudh chekjh dsmi pkj dsfy, vksv/kh; 'kkd kadsmi; lxx ds I æU/k e] I k{kkrdkj fd; k x; kA

2.2 वन उत्पादकता

विहंगावलोकन

fo'o vks r l sryuk djustij Hkjr; ou dh mRi kndrk dkQh de gA bl rFk l Ec) fo'k; kadsfy, eq; dkjd jki .kA tks l keld; r%y{; ka}kjk fy, tkrS gA dh LFki uk dsnk ku p; fur jki .k LVkA dh xqkoUk dsAij cR; {k #i l svfrøe.k djrsgA jki .k y{; kads gkfl y djustdsfy, jki .k LVkA dh xqkoUk l sbl rF; dksudkj dj fujlur l e>kSk dj fy; k tkrk gS fd fd l h Hk jki .k dk; Øe ds ihNs dh l Qyrk i kSk' kkyk LVkA dh xqkoUk gA gkykfd] jki .k gsrqLVkA dsp; u dsfy, egRo i wZoz{k ctkfr; kadsekeyseadN vkdfjdh; i jkehVj fu/kfzjr gA fdUr qy{; kads gkfl y djust dsfy, okiNr i kSk dh l ; k ctkr djust gsrq budk ikyu ugha gkrk gA oklro ea nsk ea ou i kSk' kkyk vkaeaN/kbz dh i) fr fcjysgh vi ukbz tkrh gS tks vU; Fk of/kz mRi kndrk dsfy, jki .k dh cgrj LFki uk vks mPp mUkj tlfork cfr'kr ctkr djust dsfy, l cl segRo i wZoz{k v d gA cht ; | fi jki .k LFki uk vks buds cclv k dh dcy ykx dk dcy xkSk vuq kr yrs gsf Qj Hk budh vi ; klr vki firZ dks jki .k LVkA ds mRi knu eafoklu l dkj djustdsfy, , d cefk vMpu ds #i ean[k tkrk gA okfudh cht kads l azg.k] cøe.k vks Hk.Mkj.k ij vuq l/kku] vYiKkr o{k] l dVLFk ctkfr ,oa tS&baku ctkfr; ka lgr egRo i wZ 0; ki kfjd okfudh dh i kSk' kkyk rdudh kadsekudhdj .k vks 0; ki kfjd egRo dh mRd'v fonskt ,oa nskt ctkfr; ka ds jki .k vks mudk cclv k mRi kndrk c<k l drsgA

fo'kSk oukads nh?kZlkyhu l j {k.k vks mRi knu vko'; drk vka dks gkfl y djust dsfy, Hke vks ou l d k/kuka fo'kSk dj igkfl+ ka eA dk mi; Dr oSkfud cclv k dkQh egRo i wZ gA Hkjr l jdkj usgfjr i ru ij vf/lFlx ?kSk'kr fd; k gS vks cfrclv k dk ; g fo'k; geskk Nk/v eku fy; k tkrk gStcd ou l d k/kuka ds oSkfud cclv ku ds c'u ij eq; r% ihNs oSkfud vkpMkads vHko dsdkj .k pkj arjQ ppkZ dh tkrh gA

l eL; k, ac<kus okys vuska i jkehVj kads vykok i kni h ?kVdkadseW; kadu ij vkpMkads vHko geskk fplrk ds fo'k; jsggA bu l cl sAij bu l Hk dkj d kadk ou dh mRi kndrk ij dN cHko gkrk gA

c<Fh vkcnh dh vko'; drk vka dks ijk djust dsfy, vkcnh eaof) vks ou l d k/kuka dk vfrnksu ou vks bl dh mRi kndrk ds fuEhdj .k ds fy, mUkjnk; h cefk dkjd gA baku dk'B] pks vkfn dh ekz dksorøku l d k/kuka l ijk ugha fd; k tk l drk gA rnuq kj dfr'k okudh dh cø; k dks bl dh oklrfod l e>nkh ea ykdf; ; cukus dh vko'; drk gA of/kz vk; l tu dsfy, vks/kh; ikni vk/kfzjr dfr'k okfudh c.kyh dk fodkl vks ckl vk/kfzjr dfr'k okfudh c.kyh; ka dk iSk.kh; fodkl fd; k tk jgk gA bl ea dks l l usg ugha gS fd Hkjr ea bl cdkj dh dN i) fr; kaij kru dky l sKkr gAvks mlgaek; rk nh xbz gsrFk nsk Hk eafoklu rjhd l s ijk Eifjd #i l s viukbz tk jgh gA fdUrq bl ds ikj flLFkr dh; tS&Hksrd vks l kelftd&vkfkd igy/kads l unHk eabl sl e>usvks cys [kr djust dh vko'; drk gA

mRi kndrk c<kus dsfy, 0; ki kfjd mRi knu gsrq fuEu ykx ofebEi kV dk fodkl l {ke cht l kka vks @Dy kuka dk p; u vks eW; kadu] nskt rst of) djust okys cgmnaSkh; o{kka ,oa ctkfr; ka ds eW; kadu dsfy, , dhdr j.kulfr vks fuEhdh ou enkvkads dkj ij Hk rRdky /; ku nsd dh vko'; drk gA

vr% Hkjr; okfudh vuq l/kku ,oa f'k{k i fj'kn-dN vuq l/kku i fj; kst ukvka}kjk uu fn'k vkaea l exz c; kl dj jgh gS rkd i .k/kfj; ka dks fo'kSk j.kulfr dk l øko fn; k tk l dA

fi FkSkx<ftys' mUkj k [k.M½ fo'kSk dj usky l hek {kka ea fMlykathek C; w/hj d h; k /p tmj k½ dh vkcnh dks yxHkx LFkfud dj fn; k x; k gA fMlykathek C; w/hj d h; k ds cht Hk.Mkj.k dk c/kku mnas; cht dk thoudky] vadj .k {kerk vks vst dk



ew; kadu djuk vls ijEifjd Hk.Mkj.k fof/k }kj kcht
 thoudky dks<kuk FkA cht dsvkdkfjdh; fo'kskdk
 ; Fk&yEckb] pksMkb] eks/kb] jak vkn ij csk.k
 vfHkyf[kr fd, A Hk.Mkj.k v/; ; u dsfy, chtka dks
 rhu ueh Lrjka ; Fk 20%] 15% vls 10% ea 'ks'kr
 fd;k x;k vls 'ks'kr chtka dks pkj rkieku
 ; Fk&ijjosh dsk rkieku 15 fM-I s 10 fM-I s vls
 5 fM-I s ij Hk.Mkfjr fd;k x;k; ka Hk.Mkfjr chtkadk gj
 l lrg vdg.k ijh(k.k fd;k x;k; k vls vdg.k cfr'kr]
 vdg.k.kkerk ,oa vkst ij csk.k vfHkyf[kr fd, A
 Hk.Mkfjr chtka l smxk, ikska ds of) iJkeVjka ij
 ekfI d csk.k vfHkyf[kr fd, A fofHku ik=ka; Fk&tM+
 Vsjk i kVhcs vls iksk'kkyk D; kfj; kaeamxk, ikskads
 fy, iksk vkst rkydk ¼ l -oh-vkbZ iksk xqokuk
 rkydk ¼ l -D; vkbZ vls iUk {s=Qy dh eki yh
 xbA fMlykshk C; Wjsh; k dschtadsfy, U; ure
 l j{k ueh ek=k ¼ y-, l-, e-l h-½20 cfr'kr Fk vls ; s
 cdfream".kdfVcl/kh; vfM+ y ga

ckfgu; k dh rhu ctkfr; ka ; Fk&ckfgu; k
 ofjxkVl] ckfgu; k iijh; k vls ckfgu; k jhV k
 dk vPNk pkj eku ga ckfgu; k dh bu rhu ctkfr; ka
 dh vkcknh dk irk ykusdsfy, nu ?kVh] Vka ?kVh]
 mukj dk'kh ftyk vls ushrky , oaf i Fk&kx<+ou cHkxka
 eal o{k.k fd;k x;k; ka ekMkyk] fodkl uxj] dVkiRFkj]
 dsh/kk] HkVokMh] Jhuxj] ou vuq U/kku l a.Fkku]
 nsjknw] eljh vls fVgjh l s ifjiDork ij Qfy; ka
 , d= dh xbA cht vkdkfjdh; iJkeVjka mnkgj.k Fk&
 dy ueh Hkj] cht yEckb] cht pksMkb] cht eks/kb]
 cht jak] 100 cht Hkj] fo'k] rk cfr'kr] ueh ek=k]
 , dy Qy eachtkadh l ; k] 100 xk- cht eachtkadh
 l ; k eafofHkurk vfHkyf[kr dh xbA l Hk l kka l s
 rkschtkae85 l s95 cfr'kr rd vdg.kh; rk FkA nks
 l kkaR; d l sl Hk rhu ctkfr; kadschtkadks15 fM-I s
 ij Hk.Mkfjr fd;k x;k; k vls cht vdg.k.kkerk ea
 voufr dksn[kusdsfy, gj rhu efguseavdg.k vls
 ueh ek=k fu/kk] k fd;k x;k; ka Hk.Mkj.k eavkB ekg ckn
 ckfgu; k ofjxkVl chtkaus92%] ckfgu; k iijh; k
 us78% vls ckfgu; k jhV k us68% vdg.kh; rk
 cuk, j [kA

cDI l okfyf; kuk dk"B mrdh.ku dsfy,
 cgr egroi wlc tkr ga pdjkrk ou cHkx vls e.My
 ou kmUkj[k.M½ ea cDI l okfyf; kuk dsfy,
 vkcknh l o{k.k fd;k x;k; ka fodkl @ifjiDork dh
 fofHku voLFkVkaeQykdks, d= fd;k x;k; k vls Qyka



tMh xk] pdjkrk ou ea cDI l okfyf; kuk dh vkcknh

, oachtkadsvdkfjdh; iJkeVjkadk csk.k fy; k x;k; ka
 QYkadsfodkl , oafji Dou dh voLFkVkadk v/; ; u
 fd;k x;k; ka Qykdksfl rEj eapdjkrk ou cHkx l s
 vls uoEj eae.My ou l s, d= fd;k x;k; ka chtkadk
 fu"d"zk fd;k vls yxHkx 55&60%] cht [kkyh ik,
 x, A rkschtkaus15&20%] vdg.k fn; k vls og Hk



Miedk d{k ea cDI l okfyf; kuk dh dyea

cgr fuEu FkA pid cht c l tr Fksbl fy, blga24 vls
 48 ?k.Vsdsfy, 0-05%] vls 1%] th, -3 eavls 24 ,oa
 48 ?k.Vsdsfy, 0-02%] ds, u-oks, eachtkadksfHkxkuk
 vls Lrj.k djuk tS s fofHku iok] pkj fn, x, A
 48 ?k.Vsdsfy, 0-05%] th, -3 mipkj dsQyLo#i
 mPp vls tYn vdg.k@chtkaeaykdj dh of) gha
 cDI l okfyf; kuk dsdkf; d co/ku dsfy, pdjkrk
 l s bl ds dBkj dk"B vls iUknkj dyeka dks, d=
 fd;k x;k; ka vls , u-, -, -svkbZch, - ds1000 ihih, e-



çR; dI dsl a kst u dsl kFk vLş vkbZch, - ds2000 , oa 6000 ih-ih, e- dsl kFk mipkjr fd; k x; kA

jKT; ou fohkx }kjk çkFfedhðr egRoIwL okfudh çtkfr; kA; Fkk&VfeZsy; k vtZuk] çkEcDI l hck] ikæfe; k fiUukVK] VæjUMI bñMdk] , stñMjDVk bñMdk] vkVkdkiZ ghVkj kQkbyl] l hftft; e dñefu] fiFkhl hykfc; e MYI } ghVhjksYXek , MhukQkbye] MSçftZ k fl LI j VDVkuk xñUMI] , fYçft; k çk d j k] QkbdI XykehjVv k vLş , dñ'k; k vñij dñyQkñeZ dh iKk'kkyk yxkbZxbA {k= eacfrjki .k dsfy, rst of) djusokysvLş /khe of) djusokysçtkfr; kadsikKkadh mi; ðr vk; qdk eW; kadu fd; k x; kA l ey] 'kñ'ke] beyñ] dVgy vLş fl fj l tS h çtkfr; kausjki .kkaea 1 o'Zi gkusi kKkadsfy, vPNk çn'kZu fd; kA ; wdfyVI] taxy tystñ] dVI kxkñ] djat vLş vLVVsy; u ccw tS h vL; çtkfr; kausijh{k.kkaea, d l kFk gh l kFk nks o'Zi gkusi kKkadsfy, vPNk çn'kZu fd; kA bl çdkj ; g fu"d'Z fudkyk tk l drk gS fd ckn okyh ikp mfYyf[kr çtkfr; kadsknsl ky dh gkusi j Hh jkñi r dh tk l drh gSfdurqigysokyh ikp çtkfr; kadsçgrj of) çn'kZu vLş mükj tlfork dsfy, , d l ky ds iKkka dsl kFk jkñi r djuk pkfg, A

mükj k[k.M cht l ks'ka l s fgli kQh l kfyfl Qkfy; k dscht , d= fd, x, vLş fohkku çdk'kka , oa rkieku voLFkkvka ds rgr {k= vLş ç; ks'kkyk ea budk vLş .k v/; ; u fd; k x; kA pdjkrk eamPp ÅpkbZi kK'kkyk eaikni mxk, x, vLş of) fu; ædka dk mi; ksx djds okuLifrd ço/kZu v/; ; u fd, x, A



fgli kQh l kfyfl Qkfy; k eaQyu

pkj QkbdI çtkfr; k ; Fkk&QkbdI jifryftvkd k ¼ hi y½ QkbdI yðkj k ¼ kdM½ QkbdI çakysñI l ¼ jxn½ vLş QkbdI XykehjVv k ¼ nyj½ ds ifji Do , oa vifji Do Qyka dk fohkku çakbz iñZ mipkj ; Fkk&tñ mipkj , oa jkl k; fud mipkj djusdscñ] mudsvLş .k ijh{k.k dsfy, v/; ; u fd; k x; kA p; fur QkbdI çtkfr; k dscht vLş .k ij fohkku jkl k; fud , oa tñ mipkj ka dsçHko dh rgyuk dh xbA çxn dsekeyseaijh rjg l sifji Do cht kadh vi\$kk vñ'kd #i l sifji Do cht ka dk vLş .k çgrj FkkA QkbdI jifryftvkd k ¼ hi y½ ds ekeys ea ifji Do cht vPNs vLş jgr gq vLş tñ mojd mipkj kausvL; mipkj ka dh rgyuk eacgrj çn'kZu fd; kA QkbdI XykehjVv k ¼ nyj½ ea ifji Do cht vPNsvLş jgr gq rFk xje ikuh dsl kFk mipkj ka usl okñke çn'kZu fd; kA

xk; ds xksj ds ?kky ea LVñDukst uDI okfedk vLş LVñDukst i kñ/kye dscht ka dks fñkxkuk ðe'k% 88% vLş 54% vLş .k nss ds fy, l okñke fl) gq/kA vyx&vyx vFkok l a kst u ea ukbVst u vLş QkñQkj l usi kKkadh of) dksegRoIwL #i l sc<k; kA VfeZsy; k phcnyk dscht kadk 7 fnu dsfy, ikuh eafñkxkuk vLş fQj nksfnu l vñkuk 82% vLş .k nss ds fy, l okñke fl) gq/kA

tykbleacqkZ l sigys24 ?k.Vsdsfy, 'kñr ty dsl kFk mipkjr VjkdkiZ ek'kñi ; e ds/ku o{kka l s, df=r cht kausmPp vLş .k fn; kA 80% tñ [kñ] 20% enk dks feyk dj ik= feJ.k vLş 250 l h l h vkdj dñM-Vñj LoLFk i kKkadh mRi knu djrs gq ik, x, A Qjojñ&ekpZea, df=r ifji Do o{k l s'k[k dye vLş 24 ?k.Vsdsfy, 500] 1000] 1500 vLş 2000 ih-ih, e- ds l kFk mipkj ds QyLo#i /ñedk d{k ea 14 fnu ckn dsy çjksj l jpkuk gñA 24 ?k.Vs ds fy, 400 ih-ih, e- vkbZch, - ds l kFk mipkjr tM&çjksj dyeka us 96% LoLFk ikñi ka dk mRi knu fd; k ¼ t sch-i h-¼



i kSk'kkyk D; kfj; kaeal kckU; chtkadh cypkbZds
ctk; cfrjki .k fof/k }kjk car chtkadh vadj.k T; knk
ik; k x; k %o'kZA xqjkr ds fofHku cht l krla l s
, df=r , df'k; k fuyksVdk vls , df'k; k ds/pw
ds chtka ij cht vadj.k vl; ; u Hh fd, x,
¼ -, Q-vkj-vkbZA , uksthl l yfVQksy; k ds chtka
ds l xg.k dsfy, ekpZ dk nll jk i [kokMk vuophyre
l e; ik; k x; kA fofHku cypkbZ i wZ mi pkjka ds l kfk
mi pkfjr tuijl i klyhdki kZ dschtkausi kSk'kkyk
volFkkvkdSrgr mRd'V vadj.k vfHkyf[kr fd; kA

vf/knsk ckr ctkfr; ka dh i kSk'kkyk, a rS kj
djusl sl æfU/kr l puk , d= djusdsmns; ds l kfkj
jkt; ou fofHkx] fgeky cnsk }kjk i kSk'kr dh xbz
nonkj vls cak vksd i kSk'kkyk vka dk l oZk.k fd; k
x; kA nonkj vls cak vksd ds i kSk'kkyk LVKk ds
fofHku vkdkfjdh; i }kehV/jkai j fopkj djrsgqA buds
{k= çn'kZ dk eW; kadu djusdsfy, ijh{k.k LFkfr
fd, x, A nonkj ea Åph jki .k rduhdkadsekudhdj.k
dsfy, i kSk'kkyk , oa{k= ijh{k.k rS kj fd, vls i kSk'kr
fd; kA

>kj [k.M vls l ehi orth jkt; ka dh p; fur
ctkfr; kads l {ke cht l krlavls @Dyksukadh i kSk'kkyk
ea eW; kadu fd; k x; kA dsokfjuk >@kufu; kuk ds
fy, l {kerk ou l w/kZ i)fr; ka i kSk'kkyk cCU/k vls
jki .k cCU/k nksukadsfy, fodfl r dh xba

ckdfrd i qrtZu vl Qyrk if'peh fgeky; ka
eamPp Lrjh; 'kadp{k ouka¼, fct fi UMks vls fi l h; k
fLefk; kulhZdsy{k. kaeal s, d gA mluhl oha'krknh l s
; g l eL; k oukaeavR; f/kd [kjirokj dh mifLFkr l s
l Ec) gA pfid , syhyki shk vuska ekeyka ea i qrtZu
vl Qyrk ea ceq{k Hkdedk vnk djrh gS ç; kx'kkyk ea
ctkfr; kadscht vadj.k ij oZka, oav/kk&forku iknika
ds [kjirokj] g; el vls i .kZ eng ds , syhyki shk
çHkkoka ij vuq U/kku fd; k x; kA ; g ik; k x; k fd
g; el dsfu{kkyrdka usey/kadj of) dksijh rjg l s
?kvk; k vls gfl r fd; k fdUrqmPp l klnrk ij vadj.k

dksc<k; k] rFkfi [kjirokj fu{kkyrd dk l fu'pr
çHko ugra FkA l kdkZkdK l kfyXuk] focjue
uokZ e vls QuZ %w/kk&forku ikni½ ds i .kZ eng
fu{kkyrdka dk Hh vadj.k vls eny/kadj of) ij
fujkskd çHko Fk fdUrqmPp l klnrk ij , d ctkfr
}kjk vadj.k ea çj.k fd; k x; kA bl vuq U/kku dk
l kjkak gSfd fo'kSk iknika ds g; el vls i .kZ eng bu
'kadp{kka ea i qrtZu vl Qyrk dsfy, mükjnk; h gS u
fd [kjirokj tS kfd vkt rd ekuk tkrk FkA

OkeZ Hkie [ksh ds rgr ctkfr ds fo'kky
vachdj.k graqi) fr; kadk ctkfr fo'kSk i sst fodfl r
djusdsfy, l {e , oacgr çof/kZ iknik i kskd cCU/k
tS vls vtS df'k fof/k; ka , oa ty cCU/k ij
cgqFkkfud cka ijh{k.k fd, x, A

Oka fof/krk i kSk'kkyk rduhdka jki .k
rduhdka uk'ktho , oa jsk l eL; kvka ds cCU/k] cka
vk/kfjr m | kskavls cka mi ; ksrk ifjof/kZ mRi knka
ij jkt; cixckuh fofHkx ds 145 vf/kdkfj; ka dsfy,
çf'k{k.k vk; kSt r fd; k x; kA

rfeyukMq ds N% df'k tyok; oh; {k=ka
; Fk&mükj&if'pe {k= mükj&iwZ {k=} dkogh MYV
{k=} if'peh {k= nf{k.kh {k= rFk mPp Åpkbz, oai gkMk
{k= tku dksdoj djdsfofHku LFkkukaal kr ctkfr; ka
dk mi ; kx djdscka ekMj jki .k LFkfr fd, x, A
cEck k cEck] cEck k U; wUI] cEck k VVMK]
cEck k cYxfj l] cEck k cYdqv k] MBMkdsykel
fLVdVI vls MBMkdsykel LVketh ds i kSk'k cgr
ço/kZ , oa Ård l w/kZ dk mi ; kx jki .kkaefd; k x; k
vls LFkku dsHkrj vls LFkkukadsvkj&ikj ctkfr; kads
çn'kZ dk vl; ; u fd; k x; kA cka [ksh vls cCU/k ds
fy, i)fr; kadk i sst fodfl r fd; k x; kA

cka tuunD; dh LFkku uk dsfy, ou fofHkx]
vle vls jkt; ou vuq U/kku l kFku] bV/kuxj]
v# .kpy çns k] djy ou vuq U/kku l kFku] i hph vls
mükj[k.M cka vls jSk fodkl cM/Zdh yMij ul jh
nsjknw l s31 cka ctkfr; kads90 vuqf) ; kads, d=
fd; k x; kA cka xqku m | ku dh LFkku uk dsfy, o'kZ



ou vuq U/kku l hFkkuj tlgjkV l sckd dh 4 çtkfr; ka dsdSUMMS/ /ku x{ekadh 65 vuof) ; kaçkr dh xbA

xš ou {ks-ka ea fofHku ckd çtkfr; ka dh mi ; Ørrk dk Hkh v/ ; ; u fd; k x; kA ; g çf(kr fd; k fd cEck k cyxfj/ dh ihyh feVVh ½xukbV½ ea vf/kdre Åpkbz Fkh tcf d cEck k cEck] cEck k ykfxLi Fkl] cEck k VVMK] cEck k U; WUI vksj MBM/KcdSykel fLVdVI usdkyh ½cd kfVvd enk½ ea vf/kdre of) dksn'kz ka

išk'kkyk i) fr; kaij çf'k(k.k vksj çn'ku }kjk [kk] ckd çtkfr; kadsfy, cgnçpjkshkou rduld ea OkeZij vfhkuo ifjorū , oalo; al gk; rk l eg l nL; ka dk {kerk fuekz k djds buds 0; kifjd jki .k dks çkrl kgr fd; k x; kA išk'kkyk {ks- eaoukadscgj ckd [krh dksçkrl kgr djusdsfy, mi ; Ør df'k okfudh ekM/ykadk fodkl djds išk'kkyk Hkjr eajkst xkj l tu vksj l kelftd&vkfkd fodkl dsfy, xqkoukk ckd l d k/kukadk išk.kh; fodkl fd; k x; kA

nško; ki h ijh{k.kkadsfy, tšçkš kšxdh fohkx] Hkjr l jdkj dks 30 çf'r'kr l svf/kd rsy ek=k okys tVrQk ddzk vuof) ; ka ds 48-5 fd-xk- chtka vksj 1]08]000 dyekadksfeykdj Dyksuh; inkfz dh vki firZ dh xbA o'kz dsnšku Dyksuh; ijh{k.k] l Urfr ijh{k.k] Dyksuh; cht m | ku vksj cht išk m | ku dh LFkki uk dh xbA cht rsy ek=k dk cht vçg .k ds l kfk dksZ [kk l gl æ/vk ugha ik; k x; kA cht rsy ek=k ea fofHkurk išk'kkyk okrkoj .k ea fofHku vuof) ; kadsvçfj r iškka dh vlrjLFk vuofy'u'knyrk ea fofHkurk dh višk vuof) ; ka dh vçg .k çf'r'kr Ri ea fofHkurk ds dkj .k FkhA

fcuk l çkjh xbZ l k/h; enkvkaea tVrQk ddzk dk çn'ku vl Ursktud ik; k x; kA l k-srhu l ky dh vk; q ij ikni us detlg mlkj ttfork vksj of) dk çn'ku fd; kA dksZ Hkh vuof) , d vPNs LFky eabl çtkfr dsjki .k dsrnyuh; of) nj vfhkyf [kr ughadj l dhA 10 çf'r'kr l sde iknika us Qnyka dk mRi knu fd; k] cht mRi knu ux. ; FkA tVrQk dh vuof) ; ka mnkgj .k& , Q-vkj-vkbZМ wch&ckadw& 0306&l h&31]

, Q-vkj-vkbZМ w ch&ckadw&0306&l h&32 vksj , Q-vkj-vkbZМ wch&fenuk&0306&l h&33 ea fuEu foy{k.k xqk ik, x,] mlk; fyach Qnyka dh mi fLFkr] [kijnh Nky] ikyk {kr ds çf'r çf'rjšk vksj okbjy vkØe.k ds çf'r çf'rjškA ; g n'kz k gsf d tVrQk ddzk ds Dyksuh; jki .k fcuk l çkjh xbZ l k/h; enkvka dsfy, mi ; Ør ugha

ngjknw ?kvh eank l ky dsjki .k ea 2 eh x 2 eh vlrjky us çf'r gDVsj vf/kd cht mRi knu fn; kA rFkfi] vlrjky dks vuofy're cukus dsfy, ijh{k.k dk nh?kzkyhu vuof(k.k dh vko' ; drk gA

rfeyukMqds fofHku df'k tyok; oh; {ks-kaea 50 gDVsj ekM/y jki .k yxkusdsfy, 15]000 uhe vksj i qe xqkoukk jki .k LVkkl yxk; A

pkj LFkks ; Fk& iMhks/vkbZ fr#usyos/h] fl okxack vksj dks EcVij ea {ks- ijh{k.k LFkfi r djds l hFku }kjk fodfl r 30 ; dfy/VI Dyksuh ea 'kjhjd; , oa išk.kd išk'kkyk dk v/ ; ; u fd; k x; kA p; fur Dyksuh dks ty mi ; kx {kerk dk fu/kk .k djusdsfy, dksZ vkb l k/ki fo'yšk.k grq30 Dyksuh l sdr'B uews, d= fd, x, A

išk'kkyk ds nškt rst of) djus okyh cgmnašk; o{kadsew; ka lu grq>kj [k.M vksj if'pe cakky eadnæ vksj l ey dh çkdfrd vkcknh rFk jki .kaij l puk , d= dh xbA 30 dSUMMS/ /ku o{kadh igpku dh xbA

fd l kuka dsfy, vktfodk ds l vol j c<kus grq l kykuk QI yka ds l kfk&l kfk o{k ?kvdka mnkE&dSokfjuk bDol hfVQksy; k] dSokfjuk >@kgrfu; kuj ehfy; k M; fic; k] VDVksuk xSUMI] ; dfy/VI çtkfr vksj , yUFkl , DI YI k vksj clxckuh ?kvdkamnkE&vke] ve: n] l išk'k , ofuEcwds l kfk ikp df'k tyok; oh; {ks-kaea gDVsj çf'r {ks-½ea df'k okfudh çn'ku Hk] k.M LFkfi r fd, x, A

rfeyukMq ea pkj LFkka ; Fk& djkb dMh] l hnjkbZ th; kedkMe , oadjkbody eacht dh QI y ds #i ea vks/kh; iknika ; Fk& Mhdsyfi l gfeYVksuh , oa , Lijxl jš hekl l vksj



dSokfjuk bfDol hfVQkfy; k ,oa dSokfjuk
>@kqfu; kuk rFk ; wdfyVI deYMrifufl I ds
I kfk df" k okfudh ç. kfy; ka kh LFkfi r dh xBÅ

xlp g" k fcykj k ftyk& tskij eadl kukads
[ks= eai ks"kr fd, x, df" k okfudh ekMly usmn?kfv
fd; k fd fttQI ek' khz kuk dk çn' k u cxcxkuh
çtkfr ds#i eal okke Fkh vls ou I @/k u çtkfr ds
#i ea dkykQk i e e kMly h I okke FkA fu; æ. k
1/2QI y fcuk/2dh rgyuk eadf" k okfudh Hkfk. Mkaeai kni
of) mPp FkA o" k ds nksku xsgw QI y mRiknu
13-67 fDolVy çfr gDVs j vfhkyf [kr fd; k x; kA

, fEcydk vkMOfI ufyl vls ekfjak
vkMlyQjk dschp VekVj vls vkyh , xy ekehzyk
vls ekfjak vkMlyQjk ds rgr vks/kh; ikni
, UMksfQI ifudnykVkl , Lijxl jf hekl I
jkokfYQ; k I i BVkuk] vkj- VsrQkbyk vls
foFkfu; k I kEufQjk mxkdj , d df" k okfudh ekMly
fodfl r fd; k x; kA

vks/kh; ikni vkMlyr df" k okfudh ç. kkyh
fodfl r djus dsfy, fd, x, ç; ks ds vk/kj ij
I kxk&gYnh ç. kkyh egROI wZ#i I sl okke fl) gPÅ

MYcftz k fl LI w th eadf" k okfudh ç. kkyh
ea edbz dh mRi kn drk dk v/; ; u fd; k x; k ft I Is
fu" d" k fudyk fd QI y ykbu vlrjky ds fy,
60 I seh o{k dsl kfk 5 x 5 eh dh of) njih edbzQI y
dsvf/kdre mRi knu dsfy, I okke fl) gPÅ

{ks= I o k k dsckn fgeky çnsk ea i #okyk
, oadks/ vls tEeurFk dk' ehj ea uMk , oadl Urjcsyk ea
fuEu igkMh {ks= ea 5-0 gDVs j dspkj LFkyadh i gpku
dh xBz vls esykuk vkckjh; k dsç; ksd ij h k k
LFkfi r fd, x, A

egROI wZdf" k okfudh çtkfr; ka }kjk [kj i rokj
mRi knu usn' k z, k fd xbf; k vkfVok] ekj I , Yck/
I hfYVI vkLVfyI] ckqfu; k ofjxkVkl] ruk
fl fy, Vk vls , fycft; k pkbufl I fofHku
[kj i rokj çHktka }kjk I kykuk dkQh ek=k ea
[kj i rokj&iru eal g; ks djrh gÅ

o" k zou vuq Wku I hFku] tkgkV ea i w k j
dsenk uewka dh , d ykbcjh LFkfi r dh tk jgh gÅ
I kr i w k j jkT; ka l s29 ou mi & l eg fdLeka l senk
uews, d= dj fo' y s"kr fd, A

vle ea df" k QI yka ds I kfk jkbtks; e
I jkfi r Qyinkj o{kka dh chp dh QI y ds }kjk > e
Hke dk I qkj fd; k x; kA

jktLFku dh ou enkvadk y{k. k o. k u djus
ds fy, 89 ou jatk ds 170 ou Cykka ea
Jhxakuxj] gukux< } > u h fl dj] fcdkuj] ukxk]
ckMej] fl jkgh] tkyk vls ts yej ftyka dks doj
djds210 LFkkae aenk çkQkbykadh tkp dh xBz vls
uewsfy, A

, d ykbl heSVd v/; ; u ea , ds' k; k
fuykVdk vls VefjDI , Qkbyk us ; wdfyVI
deYMrifufl I dh rgyuk ea yo. krk ds çfr mPp
I gu' khyrk dks n' k z, kA rFkfi] mFkyh xgjkz ea
tykQkr volFkVka ds rgr ; wdfyVI
deYMrifufl I us , ds' k; k fuykVdk vls
VefjDI , Qkbyk I svl k/kj. k çn' k u fd; kA

, ds' k; k fcohkd k mPp yo. krk] rki ncko
vls I w k volFkVka dh vR; f/kd #k volFkVka ea
tfor jgdj vls of) ds 30 efgus ckn vR; f/kd
yo. kh; dkyh enk ea i ; klr of) gkl y djds I cl s
dBlk ikni fl) gPÅ

Okk okMh ftys ea fuEuhdr igkMh ea fofHku
o" k zty I p; u rduhdka dUVij [kko; ka xBksh] ckDI
[kkozvls oh&fMp½vls ikni of) viokg {kfr , oaenk
ueh Lrj ij igkMh <ykukadsçHko dk v/; ; u fd; k
x; kA dUVij [kkoZ Hkfk. Mka ea ; wdfyVI
vkfQfI ufyl] , I - dhfefu] , ds' k; k ds/ puvls
ftttQI ek' khz kuk dk çn' k u csgrj FkA
, stMjDVk bMdk vls ckd us oh&fMp Hkfk. Mka ea
csgrj çn' k u fd; kA dUVij [kko; ka uscmh I hek rd
viokg {kfr; ka dksde fd; kA

Hkt ea LFki uk ds 38 ekg ckn ' k qd cybz
fuEuhdr ou enk ea dkmz, k ?kjQ vls I hØI
fl fy, fj I I a kst u I okke ou I @/k u pjxkgh FkA



o{k çtkfr;ka dh t&viogu {kerk ds eW;kaðu usn'kz; k fd of) t&ek=k] ok'i&I tzu nj v&S l exz t&viogu {kerk} tgka Hw ty Lrj 54 efgus dh vof/k ds Hkrj 145 l seh- ihNsgV&] ds l æU/k ea; w&syIVl #fMI usl ok&ke çn'kzu fd; kA

Nk&k ukxi& iBk] >kj[k.M dh fuEuhdr ou enkv&dsfy, çtkfr mi; Þrrk v&S l &kkj j.kulfr fodfl r dh xbA fuEuhdj.k dh çdfr ,o&ek=k rF&k enkv&dsVl; l hfer dkj&kal sl æfU/kr dk; k&cd&sl &kkj mik; 'k# djusl sigysdoj fd; k x; kA

fuEu ikni&k&ds fof&ku oukoj.k ea vk&e.k djrs gq ik; k x; k%

- nonkj ¼ hM ¼ nonkj ½ tksu ¼ khr&.k½ % l k&k&kk&k l kfy&uk tM&adh Li) k&ds&kj.k nonkj i&kk&ad&sej n&rk g&
- ç&at ¼D&dz k Y; w&ks&rb&dk&Q&j ½ tksu ¼mi &m". k&fV&U/kh; ¼%; i& s&ksj; e vk&M&ks&e/ vkV&h&efl ; k ç&xfj l A
- l ky ¼ k&gj h; k j&kk&h V&½ tksu ¼m". k&fV&U/kh; ¼% y&S vkuk dekjk v&S , thjs&ve dk&h&t&kk&M&h l A
- l ky dk ty H&f[k.M % ; i& s&ksj; e , Mhuk&Q&ksue] focjue b#oh l ul] , M&F&k&M& okfl dk , o&ys vkuk dekjkA
- ç&at dk ty H&f[k.M % f&çul hfi ; k ; i&vfy l] ç&ç&jl y&kl h; e] focjue LVhy&ys&ve] #cl bfyfIVdl] d&ks&ks&hLVj V&S&R&Li&ek& ek&g&fu; k uhi sy&f&ul l , o&j&st&k ek&w& pkj&kA

H&kr l j&dkj usfgeky; eav&LI h ds&ç&kj&E&H& ea 1000 eh- l s&A&j g&jr ikru ij ç&frc&U/k y&x&k fn; k g&A 'k&ç&kk&j&h ou&ka&eg&jr ikru ij ç&frc&U/k ds&ç&H&ko ds&ç&ç&.k dsfy, d&ika&ea p&ks&hl LFky&ka dk p; u fd; k x; k] t&ks ikru dsfy, fofgr f&ks&f&ur&qi&kr u&gh&fd; k x; k v&S



nonkj ,o&ds& ds&x&S&i&fir d&is m&Y&k&ç&k'&h ou i&H&ks



Li& v&S Qj ou ds&il&frr d&is p&ki&ky] f'keyk

tg&k&ok&L&ro ean&on&kj] ds&S] Qj v&S L&ç&h ou&ka&ea i&kr u fd; k x; kA d&ika& dk p; u m&lk&j&k[k.M ds ç&nh&uk&F&k] m&lk&j&k'&h v&S p&dj&kr&k ou ç&H&ks&ka&v&S fge&py ç&ns&k ds d&w&y&h f'keyk v&S p&e&ç& ou ç&H&ks&ka&ea&fd; k x; kA ikni&fofo/kr&k] o{k&ka&dh of)] i&ç&t&zu Lrj y&ks&ka&dh l ke&f&t&d&v&f&F&ç&d f&L&F&fr v&S ik&frr v&S x&S ik&frr d&ika&al sg; w&l ,o&enk& ij vk&ç&M&s, d= fd, A vk&ç&M&ka dk fo'y&ç&.k fd; k tk j&g&k g&

fo"k; o&L&r&q ds r&gr i&fj; k&st&uk, a

i fj; k&st&uk	o"kl ds n&ç&ku i&j&h dh xb&Z i fj; k&st&uk, a	T&kk&j&h i fj; k&st&uk, a	o"kl ds n&ç&ku i&j&h dh xb&Z ub&Z i fj; k&st&uk, a
; k&st&uk	13	25	03
ç&ç&j l s l g&k; r&k ç&klr	13	15	04
; k&sx	26	40	07



2-2-2 ou I ०/कु

dSokfjuk >@kgfu; kuk mi ॢtkfr fVekj fU I dsfy, ou I ०/kud i) fr; ka fodfl r djuk

ifj;kstuk ea fofHku df" k ikjflFkfrdh; volFkka ds rgr dSokfjuk >@kgfu; kuk jki .kka dh LFkki uk dsfy, ou I ०/kud rduhdka dk fodkl djusij fopkj fd; k x; k gA bl ifj; kstuk ds rgr i kSk'kkyk , oa {ks= volFkka ds vUr xz' ijh{k.k fd, x, A dSokfjuk >@kgfu; kuk ds xqkoUk i kSk mRi knu ij fofHku ik= efm; k l w-hdj .k 1/3 0 1/2 vS ik= fdLeka, oa vkdjka ds ॢHko dk v/; ; u djus dsfy, i kSk'kkyk ijh{k.k fd, x, A eykR i fUk I Qyrk ij dye ÅpkZ ds ॢHko I kFk gh I kFk i kSkka ij tsmoj dka ds ॢHko dk v/; ; u djus dsfy, Hh ijh{k.k fd, x, A vUr%LFkyh; rFk rVortznksuka volFkka ea rfeyukMq ds fofHku df" k tyok; oh; {ks=kaea QS/s8 LFkuka ea {ks= ijh{k.k rS kj fd, x, rkd dSokfjuk , oaof) ॢn'ku dk v/; ; u fd; k tk I dA ifj .kkaadk fo'ySk.k fd; k tk jgk gA

ckd vofLFkfr ijh{k.k 1/4, u-, e-ch-, -1/2

jk"Vh; ckd vuq; s; fe'ku 1/4 u-, e-ch-, -1/2 ॢSj kSxdh I puKj Hko"; ok.kh , oa ew; kadu ifj"kn] foKku , oa ॢSj kSxdh fofHkx] Hkj r I jdkj }kjk fu/kf; r ifj; kstuk th-ch i r df" k , oa ॢSj kSxdh fo' ofo | ky;] i r uxj] mUkj k [k.M }kjk I eflor fd, tk jgs, d us/odZ ifj; kstuk dk Hkx FkA Lohdr rduhdh dk; De ds vuq kj ou vkuP'kdh , oa o{k ॢtuu I hFku {ks= LVs'ku] HkFkZ kj fo' ofo | ky;] ifj I j] dks EcVij] eacgh Fkud ॢtkfr ijh{k.k] I ॢe , oa cgn ॢof/kz' ij ijh{k.k] ty ॢczk ij ijh{k.k dks 'kfeY djds i kP {ks= ijh{k.k rS kj fd, x, A ijh{k.k kads rgr LFkfr ckd x'ekadh mUkj thfork , oaof) ij rhu ekg ds vUrjky ij fu; rdkfyd vqdMsfy, x, A vqdMka dk fo'ySk.k fd; k tk jgk gA

jk"Vh; ckd fe'ku ds rgr ckd ij {ks= vf/kdkfj; kadks ॢ' k{k.k 1/4 h-, -, u-, p-vksVh-, -&1/2

rfeyukMq ea jk"Vh; ckd fe'ku ds rgr fopkj fd, x, fofHku dk; ॢyika dks djus ds fy, ukMy , tBl h&rfeyukMq cdxckuh fodkl , tBl h 1/4 h-, -, u-, p-vksVh-, -1/2 pblubZ us rfeyukMq I jdkj ds cdxckuh , oadfr'k fofHkx kads 150 vf/kdkfj; kadks ॢ' k{k.k nsus dsfy, ॢf'k{k.k I hFku ds #i eaou vkuP'kdh , oa o{k ॢtuu I hFku] dks EcVij dh igpku dh gA rnuq kj] I hFku us ckd ds fofHku igyq/ka ij mi funskd] cdxckuh vf/kdkjh ds Lrj rd 145 vf/kdkfj; ka dks ॢ' k{k.k fn; k gA ॢf'k{k.k ds rgr doj fd, x, fo'k; ka ea 'kfeY g&ckd fofo/krk] i kSk'kkyk rduhdh jki .k rduhd] uk'ktho , oa jks l eL; kj ckd vk/kfj r m|ks vS mi; kSxrk ifjof/kz' mRi knA ॢf'k{k.k dk; De ea i kSk'kkyk rduhdka ॢn'ku vS ckd {ks= ijh{k.k kP ckd okVdk] ckd m|ks ka ea {ks= HkE.k djuk 'kfeY gA

xqkoUk jki .k LVkud dk mi; s; djds rfeyukMq ds fofHku df" k tyok; oh; {ks=ka ea ckd ekMy jki .kka dh LFkki uk 1/4 h-ch-Vh-1/2

cEck k ॢckd] cEck k U; wUI] cEck k VVMK] cEck k oYxfj I] cEck k cYdP/k] MVMK ds yel fLVdVI vS MVMK ds yel LVkudh ds i kSk'k cgn ॢo/ku vS Ård I ०/ku ds }kjk mxk, x, xqkoUk jki .k LVkud dk mi; s; djds 2006&2007 ds nSjku 20 gDVsj {ks=Qy eP 2007&2008 ea 40 gDVsj vS 2008&2009 ea 30 gDVsj rFk 2009&2010 ea 10 gDVsj ea ckd ekMy jki .k lfr fd; ka rfeyukMq ds N% df" k tyok; oh; {ks=ka ; Fk&mUkj & if'pe {ks=] mUkj & i whZ {ks=] dkojh MvVk {ks=] if'peh {ks=] nf{k.kh {ks= rFk mPp ÅpkZ, oai gkMh {ks= tku dks doj djds fofHku LFkuka ea jki .k mxk, x, A dy 100 gDVsj jki .k yxk; k x; ka LFku ds Hkrj vS LFkuka ds vkj & ikj ckd ॢtkfr; ka ds of) ॢn'ku dks l e; & l e; ij ew; kidr fd; k o'kkZ



rki ekuj vknzrk ij vkkM\$, d= fd, vks I Hkh LFkkukads fy, cgn ,oap; fur I we ikskdkankuka dsfy, enk fo'y sk.k ijik fd; k x; kA fpduh enk de ty /kkj.k {kerk okyh enk vks tykØkur {ks=ka dks NkMdej I Hkh



mYkj&if'pe {ks= ea ckd



if'peh {ks= ea ckd

mYkj ihz {ks= ea ckd

{ks=ka ea cEcl k oYxfj I] cEcl k VVMk] cEcl k U; WUI vks cEcl k ckYdYk vPNk c<k cEcl k VVMk] cEcl k ckYdYk vks cEcl k U; WUI I s rgyuk djus ij cEcl k oYxfj I us T; knk ukyka d k mRi knu fd; kA cEcl k cEckd vks M\$Mkdsykel fl VDVl el; e uky mRi knu ds I kFk I Hkh LFkkukaee/; e #i I svPNk c<kA M\$Mkdsykel LVkMh dk çn'ku I Hkh LFkkukaee detkj FkA



dkojh M\$Vk {ks= ea ckd

nf{k.kh {ks= ea ckd



dyk vks ckd

rfeyukMq dks QkeZ Hkfe; ka ea ckd [ksh dh mRi kndrk dks I qkkj uk ¼, u-ch-, e-& ½

jk'vh; ckd fe'ku }kjk fu/kf; r ifj; kst uk ea ,d ckd tuun0; cbl vks ckd xqku m|ku dh LFkkiuk djus ds vykok rfeyukMq ds rhu df'k tyok; oh; {ks=ka ea çR; d rhu LFkkuka ea ou I w/kz ijh{k.k LFkfi r djus ij fopkj fd; k x; kA {ks= ijh{k.k ka dh jki .k LVkMh vko'; drk dks ijik djus ds fy, LFkkuh; #i I sikskadks mxkus ds vykok imk\$kj Hkjr I sikp çtkf; ka I sl æfU/kr djhc 11]500 ckd iknika dks çklr fd; k x; kA 3 df'k tyok; oh; {ks=ka ea Qs ys I kr LFkkuka ea ou I w/kzud ijh{k.k r\$ kj fd, x, A ckd tuun0; dh LFkki uk dsfy, ou fohkx] vl e vks jkT; ou vuq akku I h.Fkku] bZ/kuxj] v#. kkpY çnskj djy ou vuq U/kku I h.Fkku] i hph vks mUkj k[k.M ckd ,oaj\$kk fodkl ckMz dh ykMi g ul jh I snsjknw I s 31 ckd çtkf; ka dh 90 vuqf); ka dks, d= fd; kA ckd xqku m|ku LFkki uk dsfy, o"Kz ou vuq U/kku I h.Fkku] tkjgkv I sckd dh 4 çtkf; kadsd SUMMS/ /ku xqf(ekadh 65 vuqf); k çklr dh xbA

mRd"V jki .k inkFkZ , oa ekMly jki .k dk fodkl ¼uksoK ½

rfeyukMq ds 5 df'k tyok; oh; {ks=ka tks blga yxkus dsfy, mi ; Ør g\$ ea Qs ys çR; d 25&25 gDV s j dy 50 gDV s j ea uhe vks i æe dsekMly jki .k dks yxkus ij ifj; kst uk ea fopkj fd; k x; k gA djhc



15 g tkj uhe vls i qe xqkoUk jki .k LVhDukst r\$ kj fd,
x, vls 2010 ekul u eks e dsnt\$ku ekMly jki .k kads
yxkusdsfy, blgai ks'kr fd; k tk jgk gA

'kjhfdh; vls i ks'kf.kd i \$kehVjka dsfy,
; vlsyIVI Dyksuka dk y{k.k o.ku

'kjhfdh; ,oa iksf.kd i \$kehVjka ds fy,
; vlsyIVI Dyksuka dsy{k.k o.ku gr qpkj LFKkuka; Fk&
i MnkS/Vkb] fr#usyosy] fl okxack vls dks EcVij ea{ks=
ijh{k.k LFKfir fd, x,A Nk/s x, 30 ; vlsyIVI
Dyksuka dsfy, DyksukQhy ,ch vls dy DyksukQhy]
dy iUkh {s=Qy t\$ s i \$kehVjka dh x.kuk dh xbA
rhl Dyksukadh ty mi ; ks {kerk dseW; kadu dsfy,
dk'B ueus ,d= fd, vls ikmMj cukdj df'k ,oa
foKku fo'ofok|ky;] cakys dks dkcu vkbl ks/ki
fo'y sk.k gr qhsk x; kA tM+y{k.k o.ku ,oat\$ek=k ds
fy, mi ; q r p; fur Dyksuka gr q i ks'k'kryk v/; ; u ijs
fd, x,A pkj LFKkuka dsrgr 'kjhfdh; i \$kehVjka i j
ç{k.k ijsfd, A v/; ; u tkjh gA

LVhDukst uDI &okfedk vls LVhDukst
i ks/vkje dh i ks'k'kryk rduhd dk
ekudhdj .k

fofHku Hksrd vls gkekzy mipkj dsrgr
LVhDukst uDI &okfedk vls LVhDukst i ks/vkje
dk cht vadg .k v/; ; u fd; k x; kA i ks'kadh of) c<kus
ds fy, mojd ijh{k.k djus gr q i kly/hfku c\$ka ea
LVhDukst uDI &okfedk vls LVhDukst i ks/vkje
dscht cks x,A fofHku ç; kska dsrgr nksukaç tkfr; ka
ds vadg .k mukj thfork ,oaof) ij vkdMs vfhkyf [kr
fd, x,A rhu l ky dççk.k kadsvk/kj ij ; g vuçfur
fd; k tk l drk g\$ fd xk; ds xksj ds ?kly ea
LVhDukst uDI &okfedk vls LVhDukst i ks/vkje
ds chtka dks 72 ?k.Vs fhokus l s Qe'k% 88 çfr'kr
54 çfr'kr vadg .k gq/kA ukbVrstu vls QkMkQk l us
vyx&vyx vFkok l a kst u ea i ks'k'k'k' tM+yEckbz
vls dklyj 0; kl dh of) dks egRo i wkz # i l sc<k; kA
i ks'kadsofHku ?v dks dsfy, mPre eku 100 ih-h, e-

ukbVrstu çkr djus okys mipjka ds rgr
nçksx, A

VfeZusy; k phcyk jhVDI - 1/2 gM 1/2 ds fy,
i ks'k'kryk rduhdka dk fodkl

plniz j vegkj k'v\$ fhkykbz <+ 1/2 Ukh x < 1/2
rke; k ve/; çns'k 1/2 vls l Ecyig 1/2 mMH 1/2 l s, df=r
chtka l s fofHku Hksrd ,oagkekzy mipkj dsrgr
VfeZusy; k phcyk dscht vadg .k ij v/; ; u fd; k
x; kA l Ecyig 1/2 mMH 1/2 l s, df=r chtka dks 7 fnu
fhokus vls 2 fnu l çkkus ds vlrxz vf/kdre
82 çfr'kr vadg .k nçkk x; kA l Ecyig 1/2 mMH 1/2 l s
, df=r chtka dks vkbzch, e- 500 ih-h, e- + 7 fnu
fhokuk vls 2 fnu l çkkus dsrgr vf/kdre 86 çfr'kr
vadg .k nçkk x; kA

m". kdfVcl/kh; ou çtkfr; ka dh] mudh
i fji Dork ,oa Hk.Mkj .k ds fo'k'k l UnHkz ea
cht nçgdh

vadg .k {kerk vls ueh ek=kvka dseW; kadu ds
fy, Ldyhdhk Vrbtwk] gkMfod; k fcukVK]
l si UMI yk\$ Qkfy; k] jkoksYO; k l i BVkbuk]
ek\$ jaxk vkfyQ\$ k] feen k\$ l bzyhach]
gkyk\$ Vhyh; k buVfxQkfy; k vls , fEcydk
vkfQl usyl] VfeZusy; k phcyk ij bl l ky cht
Hk.Mkj.k ijh{k.k tkjh gA chtka dh vadg .k {kerk ij
rki eku ,oa ueh ek=k dsçHko l sij . kkeausn'kz; k fd
Ldyhdhk Vrbtwk] gkMfod; k fcukVK]
l si UMI yk\$ Qkfy; k] jkoksYO; k l i BVkbuk]
ek\$ jaxk vkfyQ\$ k] , fEcydk vkfQl usyl]
gkyk\$ Vhyh; k buVfxQkfy; k vls VfeZusy; k
phcyk dscht ijEi jkxr fdLe ds g\$D; kad budschp
udkj kRed l aUk FkA feen k\$ l byhach chtka ij
Hk.Mkj.k ijh{k.k ka us bl dh e/; orh çdfr dks fl)
fd; kA ,d fo'k'k Hk.Mkj.k voLFk ea chtka dh
Hk.Mkj.kh; rk dh Hkfo"; ok.kh dsfy, ijEi jkxr chtka
gr q vadg .k {kerk lFKj kad dks vkafyr fd; kA chtka dh
rhu fdLe ka dks fofHku voLFkva dh çks/hu ,oa
dkckz kbM\$ ek=kvka dk vkdyu fd; k vls vkM\$ ka dk
fo'y sk.k fd; kA



Vjksdki Z ek'kfi ; e dh i ks'k'kkyk
çksj kfxdh dk ekudhdj . k

xksUM; k ½egjk'V½ {ks= l s LoLF; o{kka l s
Vjksdki Z ek'kfi ; e ½ctkl ky½ dscht , d= fd,
vksj i ks'k'kkyk ea i kska ds vdgj . k vksj of) ij fofHku
cht mi pkj kadsçHko dk v/ ; ; u djusdsfy, i ks'k'kkyk
eaç; ks fd, x, A 24 ?k. Vsdsfy, 'khr ty ds l kfk
mi pkfjr chtka us xje ty eamipkfjr dh ryuk ea
cgrj vdgj . k fn [kk; kA Nks/svkdj dscht kadh ryuk ea
cMç vkdj ds chtka us mPp vdgj . k çfr'krk vksj
vdgj . k eku fn; kA tçkbZ ea mPp vdgj . k çfr'krk
nç kh xbz vksj tuojh ea vdgj . k dh U; ure çfr'krk
vfHkyf [kr dh xBA 80 çfr'kr tç dEikV +
20 çfr'kr enk ds vuq kr eai k= feJ . k l okke l a kst u
ik; k x; k tçfd 250 l h l h vkdj dsm+Vçj ustM+
vksj çjksj tçek= k mRiknu ds l æU/k eacgrj ifj . k
fn; kA ; jh; k] Mkb&veksu; e QMOS vksj Øe'k
2] 4 , oa6 xte dh nj ij E; hij, V vkD i ks'k'k çfr i kni
ç; Ør fd; k x; k fdUr çkjEHk ea i kska dh of) , oa
fodkl ij vtç mojd kadh dkbZçHko ughans [kk x; kA
Qjojh vksj ekspZ ds efgus ea Vjksdki Z ek'kfi ; e
½ctkl ky½ ds ifj i Do o{k l s'kk [kk dye , d= dh xbz
vksj 24 ?k. Vsdsfy, vkbZçt, - 500] 1000] 1500 vksj
2000 ih-i-h, e- dh fofHku l khnrkvkads l kfk dyekadh
mi pkj djds /kiedk d {k eaç; ks rçkj fd; k x; kA
çjksj l çpuk 14 fnu ckn vfHkyf [kr dh xbz fdUrqtM+
l çpuk ughans [kh xBA 24 ?k. Vsdsfy, dsfy, vkbZçt, -
100] 200] 300 , oa400 ih-i-h, e- dh fofHku l khnrk ds
l kfk mi pkfj ih- ek'kfi ; e dh tM+çjksj dyeka us
62 % , 76% , 84% , , oa96% LoLFk i kni kadh mRiknu
fd; kA ih- ek'kfi ; e ds jki . k LVkDka dk eW; kadu
djusdsfy, ; knfPNdhr çykd vfHkdYi ea 5x5 ehVj
dsvlrjky ij rhu çfrdfr; kads l kfk okfudh vuq çku
, oaekuo l a kku fodkl dñz ifj l j ea fofHku fdLe
ds i kska ½ khççç tM+Vçjka vksj tM+çjksj dyeka ea
mxk, x, i ksç ds {ks= ijh{k . k LFkfi r fd, x, A

o'kz ou vuq Uku l hFku] tçgkV ea
i ks'k'kkyk D; kfj ; kads l keld; chtka dh çtk, i khçççka
ea çr ds i wZ vdgj r chtka dh ççkb&çfrjki . k fof/k
}kjk fd, x, i ks'k'kkyk ijh{k . k ea vBBkuoa çfr'kr
l Qyrk gk l y dh xBA

mUr o{k jki . k rduhdka vksj ou l æU/k
pkjxkgh v/ ; ; u }kjk dPN ea yo . kh;
çat jHkfe; ka dh mRi kndrk c<kuk ½çqt jkr
j kT; ou fofHkx çk; kstr ifj ; kst uk½
ou l æU/k pkjxkgh v/ ; ; u

Hkt ea 2007 ea ou l æU/k pkjxkgh ijh{k . k
rçkj fd; k x; kA nkska çHkçka ea 38 ekg dh vk; q
ij 90 çfr'kr l svf/kd ikni çtkfr dh mükj tHfork
nj FkA çtkfrokj vf/kdre mükj tHfork Fk dksMz k
?kjkQ ½9-5%½ bl ds ckn ft thQI ekf'kz kuk
½2-5%½ vksj ih- fl ufsj ; k ½1-2%½ vfHkyf [kr
l exzvkortçfr'kr mükj tHfork dh ryuk ea l hØI
l svthj l ea 95-64 vksj l hØI fl fy, fj l ea 93-8%
FkA 24 ekg ij mükj tHfork dh ryuk ea l hØI
l svthj l ds l kfk 1-9% vksj l hØI fl fy, fj l ds
l kfk 2-3% gYdh deh FkA rFkfi l hØI fl fy, fj l
½u; æ . k ea 92-0% l s 98-1%½ dh ryuk ea l hØI
fl fy, fj l ½u; æ . k ea 97-5% l s 90-1%½ dsekeysea
?kkl ds l kfk mükj tHfork mPp FkA 38 ekg eavf/kdre
vksj r o{k ÅpkbZ fl ØI fl fy, fj l ½62-4 l seh-½
bl ds ckn l hØI l svthj l ½42-8 l seh-½ ds l kfk
vfHkyf [kr dh xBA l hØI l svthj l dsekeysea
?kkl dh ryuk eafu; æ . k o{k kadsfy, vksj r o{k ÅpkbZ
l kfk #i l smPp FkA rFkfi l hØI fl fy, fj l ds
l kfk o{k 38.5% yeçs mxç çtkfrokj ft thQI
ekf'kz kuk ea vf/kdre vksj r ÅpkbZ ½203-5 l seh-½
vfHkyf [kr dh xbz bl ds ckn l h- ?kjkQ ½42-3 l seh-½
vksj ih- fl ufsj ; k ½2-1 l seh-½ jgç ft thQI
ekf'kz kuk dks Nkçdj vU; çtkfr; ka us N= of)
vfHkyf [kr ughadhA ft thQI ekf'kz kuk usfu; æ . k ds
fy, vksj 38 ekg dh vk; qij ?kkl mi pkj ds l kfk
31-3% vksj 14-2% of) vfHkyf [kr dh gç

?kvdokj vksj r ÅpkbZ vksj N= 0; kl ds
vk/kj ij ?kkl mi pkj ds l kfk vksj fu; æ . k ea



ft thQI ekf'kz kuk rFkk dksMZ k ?kjkQ dsfy, Hkh; wjfd tsek=k vkdyu fd;k x; kA l h0I l sVthjI ds l kFk mPp cht nj ij cwbZ dh xbA ?kkl dksMZ k ?kjkQ 1/4-8 fd-xk-1/2 vksj th- ekf'kz kuk 1/4-6 fd-xk- o{k/2 ds l kFk mx o{kadh ryuk eafu; æ.k o{kka ds fy, tsek=k mRiknu dksMZ k ?kjkQ 1/7-5 fd-xk-@o{k/2 vksj ft thQI ekf'kz kuk 1/4-0 fd-xk-@o{k/2 ds l kFk 2&3 xuk T; knk FkA tcfD l hfl fy, fjl dsekeysea 1/2 uEu cht nj ij fNVij cks x, 1/2 0e'k% ?kkl , oa fu; æ.k mipjkA ds l kFk tsek=k mRiknu ft thQI ekf'kz kuk dsfy, 4-5 l s 5-3 fd-xk-@o{k vksj dksMZ k ?kjkQ dsfy, 8-0 l s 8-6 fd-xk-@o{k FkA ifj. lke l o-ko nrsghfD fuEu cht nj ij ?kkl dh cwbZ o{k of) dksckl kgr djrhgA

o"kl 2009 ds nksj kul dy o"kl 419 fe-eh- Fkh vksj ft l eal svf/kdkak 1/202 fe-eh-1/2 yxHkx 30 fnuakdsnh?l vof/k dsckn rhu fnuakea 1/29&3&2009 1/2 vxLr eagpA l h- fl fy, fjl dsfy, vksj r mRiknu 1-01 Kgm⁻² vksj l h0I l sVthjI dsfy, 0-76 Kgm⁻² FkA ; g xro"kl dh ryuk ea 57-5% vksj 61-7% T; knk FkA o{k of) us ?kkl mRiknu dksckl for ughafD; k vksj gjh ?kkl dk mRiknu 0e'k% l h- fl fy, fjl ds fy, l h- ?kjkQ 1/4-11 Kgm⁻² 1/2 vksj l h- l sVthjI dsfy, th-ekf'kz kuk 1/4-83 Kgm⁻² 1/2 ds l kFk vf/kdRe Fk tks fu; æ.k ds ryuh; FkA ç; ksd {k= l s 0-35 Kgm⁻² dk gfjr vir.k eq; r%vLokfn"V ?kkl çklr fd;k x; kA

mUur o{k kjsi .k rduhda

mi ; 0r jki .k i) fr ds l kFk mi ; 0r fonskt , oanskt pkjk ikni çtkfr; ka dk irk yxkus dsfy, tgykbZ 2007 ea MCY; w, -, l- dh l hek ea iVukj xqjkr ea dkskkZ l keh jat ea dkyh xknHkjH fpduh feVvh 1/2; e1/2 enk xgjkBZ %40&75 l seh- ea, -, fElyl sl] , - fcohukd k 1/2 fonskt 1/2 vksj , l- ifl Bk 1/2 nskt 1/2 ds l kFk vud U'ku ijHk.k rS kj fd, x, A , l- ifl Bk mPp yo.krk dh vr; f/kd #k volFkkvkarki ncko vksj l vkk volFkkvkaeaf for jgdj l cl sdBkj ikni fl) gvk vksj bl eaU; wire upl ku gvk rFkk jki .k ds 30 ekg eabl usmukj thfork dh mPp nj 1/2-8% 1/2 dks cuk, j [kk bl dsckn 30 ekg ea 77-3% mukj thfork ds l kFk , - fcohukd kjghA

p; fur çtkfr; ka ea , - , fElyl sl dks ebZ 2009 eaj .k dh vksj l syo.kh; xje gokvkdskj .k l Hkor% bl ds l hek {k= ea vksj vf/kdre ÅpkbZ ds dkj .k Hkh vf/kdre {kfr gPÅ çkjFEHkd vadj .k vf/kdkak iknika ea nskk x; kA rFkfi vksj r mukj thfork ea 41% deh Fkh 1/4 tks 30 efgusea 44-1% vksj 12 eghusea 74-6% FkhA

l Hkh rhu ikni çtkfr; kaus>kMankj çdfr dk çn'ku fd; kj ft l usof) ds nks l ky ckn ÅpkbZ dh višk T; knk N= 0; kl dks çkkl kgr fd; kA , l- ifl Bk ea 24 ekg ea 154-2 vksj r N= 0; kl dh ryuk ea vksj r ÅpkbZ 120-8 l seh- FkA viškdr , - fcohukd k us 24 ekg ea l Hkh ikni çtkfr; ka ea vf/kdre N= of) gkl y dhA vksj r ÅpkbZ 112-6 l seh- vksj r N= 0; kl 1/208-5 l seh- 1/2 l s dkQh de FkA nks dkjd , ukok fo'yšk.k usn'kz k fd mipjk ausof) dks çHkfor fd; k vksj Qkez kMZ [kkn vksj xgyHkh h nkska mipjk ausvU; mipjkadh ryuk eal kFkd mPp of) 1/2 ÅpkbZ vksj N= 0; kl 1/2 dks çkkl kgr fd; kA fofHku mipjkaea, dy ikni ea 4&19 'kk [kA FkA çkjFEHk ea 18 efgusrd , - , fElyl sl uscgq mPp of) gkl y dh vksj , d l ky ea if'ir gkdj vadj {ke cht dk mRiknu fd; kj fdUr rki vk?kr ds ckn ÅpkbZ ds l unHkZ ea of) usgkl dk #>ku n'kz kA , l- ifl Bk ds yxHkx 90% iknika ea tuojh 2010 ea Qny vk, A rFkfi ekpZ 2010 ea 6% iknika ea Qy LFkku gvkA viwZeku l w o"kl ea, -, fElyl sl vksj , - fcohukd k eai ti .k ughanskk x; kA

tuojh 2010 ea, - fcohukd k dsfy, ikni xM<s ds Hkrj 0-25 vksj 25-50% enk ijr ea çfr'kr enk ueh 8-1 l s 12-6% Fkh 1/4 fnl Ecj 2009 dks 8 fe-eh- o"kl gP 1/2 tks ikni xM<s ds Hkrj Åijh enk ijr ea 2-4 l s 4-79% rd ?kv x; hA enk dk; l ds QyLo#i ueh {kfr gks l drh gSD; kAd Åijh enk ijr eavUr%i 0r vUrjky ea ueh ek= T; knk 1/8-02 l s 5-01% 1/2 FkA xjeh 2009 ea, -, fElyl sl l senk ih- , p- vksj fofues /kuk; u dk fo'yšk.k fd;k x; kA enk ih-, p- eku l keU; jat ea FkA rFkfi fofues /kuk; u eku 0&25



वर्ष 25&50 I सह-एनके इजर एएडे'क%1-7 I स4-06 dsm⁻¹
वर्ष 2-30 I स4-01 dsm⁻¹ रद मपप फका रकी वक?कर दस
कन फोवुस /कुक; उ एकु 1-2 I स3-9 dsm⁻¹ वर्ष 1-4 I स
5-5 dsm⁻¹ रद फक तसन'कक?क गसद रकी वक?कर ध वof/k
eayx.krk Lrj mPp FkA

जकी.क दक; ड्यकिका उस [कजिरोक] of) दस
कक?क कफर fd; कA DykfyjI fojxkVk I cl सचककोह फका
bl ds ckn L; Mk Ywhdks kj vjflVMk चतकर; का
वर्ष tkbxtQkbye fl ElyDI FkA दय feykdy
517-3 gm² मरि कनु वफकfyf [kr fd; k x; कA rFkfi o?k
चतकरोक] fofkUurk न?क खZवर्ष ; g 503-8 gm² वर्ष
¼ - fcohukd Rzvर्ष 530-8 gm² ¼ - , fElyI sI ½FkA

चत LVS Mka Is , df=r चतका ध चत
fo'k's'krkvkaij v/; ; u

खतजर jkT; eadetkj चतक; u dsdkj.k jkT;
ou fohkx oknR चतकर; कdsxqkoUkk चतकध वकी फरZ
djuseavl eFkZFkA चत चक. कhdj.k च. कkyh dh LFkki uk
dsfy, vumsk fu; ekoyh r\$kj djdsdk; kbo; u grq
ed; ou Ij{k@mi ou Ij{k}d} xk?k uxj वर्ष
jkTfi iyk dksLr dh xbzgA

, ds'k; k dS/p ds 12 चत I kka ½ चत
LVSM वर्ष 10 dSUMMS/ /ku o?k½14 tVQk dSUMMS/ /ku
o?kadscht ueus, d= fd, वर्ष चत i?kehvJkadsfy,
i jh.k.k fd; कA Hkrd #i I schtkadh tkp dh xbzवर्ष
dkbz Hh [kjic ugha Fk rFk I Hh चत LoLFk FkA
, ds'k; k dS/p ds चत jk ea I qgj&Hjjs FkA
, ds'k; k dS/p ds चत ykV ua 2557 us77-5% vdg.k
वर्ष 143-38 vkt rkfydk n'kbb] tcf d {k= dsckgj
I s , d= fd, x, चतका ¼ DI I s ua 2558½ us
77-5% vdg.k वर्ष 145-7 vkt rkfydk n'kbbA
, ds'k; k dS/p ds 10 dSUMMS/ /ku o?kka us 100 चत
Hkj ea3-79&5-48 xk] चत vdg.k ea69 I s91-5% वर्ष
vkt rkfydk ea88-14 I s152-73 rd fofkUurk fn [kbbA
VfeLusy; k phcnk dschtka I schtkoj.k dsfu"dkl u
I sfxjh fu"dkl u dsmi jkU 10% fu; .k I s72% rd
vdg.k चर'krnk eac<krjh gpa tVQk ds14 dSUMMS/
/ku o?kka ea10 xk- चत Hkj ea chtkadh I ; k 17&23
rFk chtk vk/kkj ij rsy 27-6 I s41-1% rd FkA

नोनक ¼ hM⁹ नोनक ½ वर्ष कु वकद
½DsdZ k Y; wksv/kbdkQkj k½ ds i kS'k' kkyk
LVkkl ds vkdkfj dh; , oa 'kkj hfj dh;
xq koUkk i s kehVj ka dk fu/kkj . k

डे'क ekMy ul jh f'keyk वर्ष f'kyh ul jh
I ksy ea नोनक ¼000½ वर्ष क.क वकद ds i kS'k' kkyk
LVkkl ½24000½ mxkdj i kS'kr fd; कA f'keyk ea वर्ष
I ksy ou चकका ea च; ksd jki .ka dks djus dsfy,
LFkyka dk p; u fd; k x; कA bu चतकर; का ds i kS'k' kkyk
LVkkl ds fu; fer mRikndka , oa mi Hkdrkva dk
I kRrdkj djds नोनक , oacu vkd ds jki .k LVkkl dh
xqkoUkk ds vlfje U; wire ekudka I s afu/kr mnas ; ka
dks gkl y djus dsfy, fgekpy चnsk dsou fohkx dh
i kS'k' kkyk vka ½85½ dk Hk.k fd; k वर्ष नोनक , oa
cu vkd dsfy, viuk, tk jgs {k= dk; Zrkz/ka I s
i kS'k' kkyk yxkus वर्ष xqkoUkk i s kehVj ka ds I aU/k ea
I puk , d= dh xba fojpr च' ukoyh ds }kj k I o?k.k
fd; k x; kj ft I sbl mnas ; dsfy, fodf I r fd; k
x; कA ; g ik; k x; k fd bu चतकर; कadh xqkoUkk eki us
dsfy, jkT; ou fohkx dh i kS'k' kkyk vka ea i kS'k' kkyk
LVkkl ds दय , d Hkrd i s kehVj ; Fk Apkz
¼jkg yEckbz%9** ; k T; knk½ dks viuk; k tkrk gA t gk
rd ifj; kst uk ds n' jsmnas ; dk I aU/k gS N%LFkyka
çR; d चतकर dsfy, rhu&rhu ea vxLr 2008 वर्ष
vxLr 2009 ds nk\$ku bu चतकर; का ds vkdkfj dh;
i s kehVj ka tM+dkVj 0; kl] mRiknu च. कkyh dh fdLe
¼ kVhcS vFkok [kkyh tM½ vk; qjki .k {k= dh LFky
volFk vka tS svU; i s kehVj ka dk 'kfey djus dsckn
ç; ksd jki .k dh LFkki uk dh xba {k= fopkj&foe'kz
ds vk/kkj ij vkxs fopkj&foe'kz rFk vlfre #i nas ds
fy, नोनक , oa cu vkd ds i kS'k' kkyk LVkkl grq
vlfje U; wire ekudka dk çLrko fd; k x; k rFkfi]
ç; ksd LFkyka ea 2008 वर्ष 2009 ds nk\$ku cgr de
fgei kr@o'kz gpa bl ds mi jkU xje eayxkrkj I vks
dh fLFkr cuh jgh ft I ds QyLo#i ç; ksd jki .k ea
Hkjh eR; Zk gpa ç; ksd jki .ka I s afu/kr of) वर्ष



mÜkj tlfork vkpMædksfujUrj vfhkfyf[kr fd; k x; kA 2009 ds nkjku ckg; fo'kskKka }kjk ifj; kst uk dk; Zdyki kadk eW; kadu Hkh fd; k x; kA



nønkj LVkM , oacu vkad jki .k dk fujh{k.k

yEcs i kni ka }kjk nønkj ¼ hMª nønkj k½ jki .kka dks yxkus ds fy, rdudhka dk fodkl

{ks= l oZk.k fd; k rFkk nønkj çdr uoknfHknA yEcs i kni ka dk mi ; kx djds {ks= dh LFkki uk dsfy, f'keyk ft yseaf'kyk# dsl ehi ç; kSxd {ks= dk p; u fd; k x; kA f'kyk# vSj dM=kyh ea igpku fd, x, LFkykaevxLr 2008] Qjoh 2009 vSj vxLr 2009 ds nkjku nønkj idr uoknfHknls ds ik; kSxd jki .k

LFkfi r fd, x, A idr uoknfHknkadk jki .k ÅpkbzvSj tM+dKvj 0; kl Jskh dsvk/kkj ij fd; k x; kA l h/ks {ks= ea l kFk gh l kFk i kSk' kkyk ea cksj; ka ea Tkm+vukoj .k ds l e; } tM+'kqduj l g {kk dkjd inkFkävSj jki .k idr uoknfHknka dsvk/kkj ij Hkh iz; kx fd, x, A i kSk' kkyk D; kfj; ka ea yEcs i kni ka dh mi yC/krk ds vuq kj ekpZ 2009 ds nkjku i kSk' kkyk v/; ; u 'kq fd, x, A



nønkj tæyh i kSk' kadk ik; kSxd jki .k

i kSk' kkyk ea nønkj ds yEcs i kni ka dls mxk; k

vf/kdUrj ifrjki .k ds l e; tM+vukoj .k l e; , oa tM+'kqdu l g {kk dkjd inkFkävSj Hkh ml h izdkj iz; kx fd, tk jgsgãtS k l h/ks jki .k dsekeyseaf d; k tk jgk gA ik; kSxd jki .kka dks {ks= ea 0; kid : i l s i kS'kr fd; k tk jgk gA {ks= mÜkj tlfork l sl æb/kr vkpMæ fu; fer : i l svfhkyS[kr fd, x, A idr uoknfHknkads ek/; e l sjki .k dsl Qyrk vHh Hkh , d vge fo'k; gS vSj bl ifj; kst uk dsrgr bl dh tkp py jgh gA rFkfi] nønkj idr uoknfHknka ds {ks= mÜkj tlfork ifj .kka vHh rd mRl kg tud ughagA

tñuijl i kñyhdkil l h- dkp vSj Ýfdl ul tSfkkMl hykñkMhl ea cht l æg.k] cht l pkyu Hk. Mkj .k vSj cht idl ãlr Hkx djus ds fy, dk; Z i) fr dk ekudhdj .k

fofHku cu/kbz i wZ mipkja ds l Fk mipkjr tñuijl i kñyhdkil cht kaeacht idl ãlr l sikj ikus dsfy, vadj .k v/; ; ukaea i kSk' kkyk voLFkkvkadsrgr mRd"V vadj .k ¼ 70% ½ vfhkfyf[kr fd; k x; kA cht ka }kjk mxk, i kSk' kadk i kSk' kkyk ea yxkrkj vuoh{k.k fd; k tk jgk gA nksuka iztkfr; kaeacht l æg.k ds vuqñyre l e; dk irk yxkusgrqrS kj nkjkk, x, ijh{k.kkadks i kS'kr fd; k tk jgk gA



fofHku fdLe ds Hk.Mkj.k ik=ka@Hk.Mkj.k okroj.k dk mi;ksx djds *YfdI ul tBFkkDI hykWMhl vls tuijl iknyhdkil* ea cht Hk.Mkj.k ijHk.k dk ikSk.k fd;k vls Ie; & Ie; ij chtka ds vadg.k {kerk ijHk.k fd, x, A fofHku fdLe ds Hk.Mkj.k ik=ka@okroj.k ea Hk.Mkfjr *YfdI ul tBFkkDI hykWMhl* chtka us cht vadg.k {kerk ea gkl eku #>ku dks n'kz, k vls jsYtjvj 1/5-0 c/2 ea j[ksok; #) iknyhl sl ik= ea Hk.Mkfjr chtka us Hk.Mkj.k ds 24 ekg ckn > 70% vadg.k {kerk cuk, j[kh tcfv vl; Hk.Mkj.k ik=ka@Hk.Mkj.k okroj.k us cht vadg.k {kerk ea gkl eku #>ku n'kz, ka bl hcdkj *tuijl iknyhdkil* chtka usHk cht vadg.k {kerk ea gkl eku #>ku dks n'kz, k vls jsYtjvj 1/5-0 c/2 ea j[ksok; #) iknyhl sl ik= ea Hk.Mkfjr chtka us Hk.Mkj.k ds 24 ekg ds ckn > 50% vadg.k {kerk dks cuk, j[kh tcfv vl; Hk.Mkj.k ik=ka@Hk.Mkj.k okroj.k us cht vadg.k {kerk ea gkl eku #>ku dks n'kz, k rkscht ,d= fd, x, vls nksj, x, ijHk.k r\$ kj fd, x, A



ikSk'kryk voLFkkvkaea tuijl iknyhdkil ds ikSk

mUkj[k.M vls fgekpy çns'k ds nonkj] dsy] Qj vls Lçw ouka ea gfjr ikru ij çfrCU/k ds çHkko ij v/; ; u 1/2ou vuq U/kku I LFkku] ngjknw ds I kFk , d I g; kxh ij; ; kstuk1/2

I æfU/kr çHkxh; vf/kdLj; ka ds dk; k; ; ka I s v/; ; u LFkyka sl æfU/kr vk/kjHkr I puk , d= dh xbZ vls foLr' v/; ; uka dsfy, pEck] f'keyk vls dWYw

ftyka ea ouka dh igpku dh xbA I æfU/kr jatka ea dEiKVZV bfrgl Qkbyka I s ouka dh vk/kjHkr I puk@; ; k; s, d= fd, x, A vk/kjHkr C; ; k; sçkr djus ds ckn I æfU/kr çHkxh; ou vf/kdLj; ; ka ds I kFk mul s I æfU/kr çHkxka ea çkjFEhd fopkj&foe'kz fd; k x; k vls I kFk gh I LFkkaeaHh bl fo'k; ; ij fopkj&foe'kz fd; k x; ; ka vkrfjd #i I sbl ckr dks vflre #i fn; k x; ; ka fd fgekpy çns'k jkT; ka ea rhu ftyka ; Fk&pEck] dWYw vls f'keyk ea vkusokys LFkyka dk çLrko I LFkku djæA rnuq kj dWYwou çHkx ds uXj jat] pEck ou çHkx eavij pEck jat vls pki ky ou çHkx ds pki ky jat eav/; ; u djusdsfy, LFkyka dk p; u fd; k x; ; ka bl fo'k; ; ea vf/kd Li"Vhdj.k vls fopkj&foe'kz djusdsfy, ih vkbZvls ou I w/kz çHkx ds çed[k ds I kFk cBd Hh dh xbA igpku fd, x, ftyka ts'k Åij mfYyf[kr fd; k x; ; k gS fd mi; ; ou çHkx ds fofHku jatka@Cykkaea ih vkbZ ds I kFk LFkyka dk Hk.k fd; k vls rnuq kj ou vuq U/kku I LFkku] ngjknw dh Vhe }kj vflre #i nsusdsfy, igpku dh xbA bl ds ckn {ks=ka ds vk/kjHkr C; ; k; ka dks vHkyf[kr fd; k vls I kgr; ; dk voyksdu fd; ka pki ky ou çHkx eavkusokysfj; ; wh , oafj; ; kuk LFkykaea Qj vls Lçw ouka ea iknih I o\$ k.k fd; k x; ; ka fgekpy; ; u ou vuq U/kku I LFkku vc ctV ds iFkd vkbZ/u ds dkj.k viusvki gh {ks= dk; ; byki djskj yfdu ngjknw ea ih vkbZ ds I kFk I e; & I e; ; ij C; ; kj ka ij pkiZdjæA

**0; ki kfjd mRi knu dsfy, I e) ofeBEi kV dh fuEu ykx dk fodkl ^ ij; ; kstuk ds vlxZ I e) ofeBEi kV dk mRi knu , oa ofeBEi kV uewka dk fo'ySk.k rFk ç'k(k.k vls çn'ku fd, x, A

**>kj[k.M rFk I ehi ortZ jkT; ; ka I s p; fur çtkfr; ; ka ds I {ke cht I k'kavls @Dyksks dk p; u , oa eW; ; ka du^ ij; ; kstuk ds rgr chtka@Dyksks dk I æg.k vls ikSk'kryk dh LFkku uk dh xbA



2-2-3 I kekft d okfudh] dfk okfudh@
OkeZokfudh

i wdz mUkj çns'k ds fy, dfk okfudh
ekWlykadk fodkl

vi us [ks=ka ea dfk okfudh djusokysfdI kuka
dh igpku dh xbA vkwlyk] ; wdsyIVI] I kxkS rFk
i klyj dsdfk okfudh Hk[k.Mkadk v/ ; ; u fd; k x; k]
enk uenka dks muds Hk[krd&jkl k; fud vfHky{k.kka ds
fy, fo'yf'kr fd; kA vkwlyk vk/kfjr dfk okfudh
ç.kkyh dk bykgkcn ftys ea dfk okfudh ds I cl s
mi ; Ør vS ykHnk; d fodYi ds #i ea igpku dh
xbA tcf d tks ij {ks= dsfy, I kxkS vk/kfjr dfk
okfudh ç.kkyh] xS [ki j {ks= dsfy, I kxkS vS i klyj
rFk ckjcadh dsfy, ; wdsyIVI vS I kxkS vk/kfjr
dfk okfudh ç.kkyh I cl s mi ; Ør ikbz xbA dfk
okfudh dks vi ukusead[; nckokadh Hk igpku dh xbZ
vS bl usmn?kVr fd; k fd okfudh mRi knkadsctkj
I gkuçU/k cgr detkj gS vU; nco g& dfk okfudh
dk'B vk/kfjr m | kska mnkj .k& yqnh vS dkxt]
lykbZ dk'B ,oa Quhpj vkfn dk vHko] jkT; pkfyr
foi .ku , tBl h] mnk& dfk okfudh mRi knkadsfy, ou
fuxe dh detkj I qerkl dfk okfudh mRi knkadsfy,
xS&ykHkçn U; ure I gk; d dherj çdk'B vS ou
mRi kn ifjogu fu; e , oafofu; e rFk foi .ku ea dfk
okfudh mRi kn vk/kfjr foi.ku I puk ç.kkyh dk
vHkoA bl dsvykol] dfk Hkie dh de mi yC/krkl] ykHk
dekusdsfy, okNn nh?kZvof/k] QI y dVku eadkuuh
I eL; k, çcktkj dh vuq yC/krkl] tkx#drk dk vHko]
jki .k i nkFkZ dh vuq yC/krkl] 0; fDrxr fookn fdI kuka
}kj dfk okfudh dks vi ukuseanckokads#i ea igpku
fd, x, vU; çedk dkjd gA

rfeyukMq ds fofHkuu dfk tyok; oh;
{ks=ka ea vkt hfodk I qvol jka dh I wdf) ds
fy, dfk okfudh çkS| kxf fd; kadk çn' kZu

; g ifj; kst uk dfk okfudh ds fy, jk'Vh;
vuq U'ku dlnj >ka h vS ou egfko|ky; ,oa
vuq U'ku I h.Fku] ehV'viryk; e dsl g; ks I sck; ZUor

dh tk jgh gA ikp dfk tyok; oh; {ks=ka ea d'kd
I epk; ka }kj viukbz tk jgh fo|eku dfk okfudh
ç.kky; kadçedk o{k çtkr; kavS I kykuk QI ykads
I kFk çyS[kr fd; kA dSokfjuk bfDoI hfVQkfy; k]
dSokfjuk >@kufu; kuk] ehfy; k Mfc; k] VDVksuk
x@MI] ; wdsyIVI çtkr ,oa, yUFkI , DI YI k
tS s o{k ?kVdka vS I kykuk QI yka ds I kFk vke
ve: n] I ikr vS uhaw tS s vS kfudh; ?kVdka ds
I kFk ikp dfk tyok; oh; {ks=ka ea 15 gDVsj
¼çr {ks= 3 gDVsj½ ds vUrxZ dfk okfudh çn'kZu
Hk[k.Mka dh LFkkiuk dh xbA LFkfir dfk okfudh
çn'kZu Hk[k.Mka ds rgr Åij mfYyf[kr dfk okfudh
ç.kky; ka ds vUrxZ chp dh QI y ykus ds
dk; Zyki fd, x, vS mRi knu dk eW; kadu fd; k
x; kA I kykuk QI yka ds I kFk LFkfir dfk okfudh
ç.kky; ka ds rgr tsek=k ds uenw Hk fy, x,
vS bl dh rgyuk , dy QI ykads I kFk dh xbA dikl
ds I kFk dSokfjuk us dkojh M'Vv tks ea



rfeyukMq ds foYyijje ea epQyh ds I kFk
vke vk/kfjr dfk&clxckuh izkkyh



rfeyukMq ds dMkyj ea xUus ds I kFk
I kxkS vk/kfjr dfk&oul w/kZu izkkyh



~ 31]250 çfr gDV\$ j dh dty mPp vk; ntZdh bl ds ckn nf{k.k {ks= ea l j t e f k h ds l k f k fu E c w ¼ 18]750@gDV\$ j ½ if'peh {ks= ea dkyk puk vK\$ yk\$; k ds l k f k l k x k s i ¼ 14]650@gDV\$ j vK\$ ~ 12]500@gDV\$ j ½ vK\$ m'Yk i n h z {ks= e a d k y k p u k v K \$ y k \$; k d s l k f k , y u f k l ¼ 12]840@gDV\$ j v K \$ ~ 10]230@gDV\$ j ½ j g A



rfeyukMqdsfr: usyosyh ftysea yc&yc ds l k f k u h e w v k / k f j r d f ' k & c k x c k u h v k / k f j r i z k y h

dSokfjuk vK\$; n d f y l v l dh v k s j k f x d o { k ç t k r ; k a ds r g r v k f F k d # i l s e g R o i w k z v k s k / k h ; i k n i k a ds l k f k d f ' k o k f u d h ç . k k f y ; k a d k f o d k l f d ; k x ; k

rfeyukMq ea pkj LFkkuka ; Fkk& d j k b z M h j l H u n j k b z t h ; k e d k s M e v k \$ d j k b z y e a d S o k f j u k b f D o l h f V O k f y ; k j d S o k f j u k > @ k g f u ; k u k j v K \$; n d f y l v l d e Y M r y u f l l t s h o { k ç t k r ; k a ds j k i . k i j s f d , x , A o { k ç t k r ; k a d s l k f k c h p d h Q l y ds # i e a v k s k / k h ; i k n i k a m n k g j . k & M h d s y h f l g f e Y V k a u h v k \$, L i j x l j d h e l d l d k j k i . k i j k f d ; k A i k s k d L r j d k s l e > u s d s f y , j k i . k ' k a # d j u s l s i g y s l H h j k i . k L F k k u a l s e n k u e w s , d = f d , x , A f o f H k U u ç c U / k l k j f . k ; k a ds r g r x q M a q v a x f L V O k f y ; k d e B ds o f) ç n ' k u d k e w ; k a d u d j u s i j v / ; ; u ¼ , u - , e - c h - , - ½

nks LFkyka ; Fkk& eS j ds l e h i ; y o k y k v k \$ c a y k \$ ds l e h i x k s V V i j k ¼ g k w d k s / ½ e a 2005 e a l k r m i p k j k a d k s f e y k d j v l r j k y ½ e h - x 5 e h - v k \$ 5 e h - x 9 e h - ½ v k \$ m o j d i j h { k . k a d s l k f k { k s = i j h { k . k

LFkkir fd, x, A v / k & ' k a d v o L F k k v k a ds r g r x q M a q v a x f L V O k f y ; k d h v u i ; @ r r k d k s n ' k k z s g q r h l j s l k y d s v l r r d g k w d k s / e a < 50% v k \$ e S j e a < 10% m u k j t h f o Y k k n j F k A

djy vK\$ dukVd ea xq M a q v a x f L V O k f y ; k d e B v k \$ M s M k d s y k e l , L i j c a d j d h [k s h ¼ , u - , e - c h - , - ½

o f) ç n ' k u d k v / ; ; u d j u s d s f y , n k s v l r j k y k a i j d j y e a 2 L F k y k a / y o k , o a i y D d M ½ v k \$ f F k F k e F k h j d w k j d u k V d e a m " . k d f V c a k h ; v k n z v o L F k k v k a e a Q k e z ç n ' k u i j h { k . k L F k k i r f d , x , A b u 3 L F k y k a e a t k ; Q y l p l n u v k \$ l h - l S i u d s l k f k ' k l ; k & i k n u f d ; k x ; k A 2008 e a 3 L F k y k a d s f y , , d f = r o f) ç n ' k u v k d M h a u s d w z e a l o k k e ç n ' k u n ' k k z k b l d s c k n v y o k v k \$ r c i y D d M - j g k A

ckd LFkku fu / k k j . k i j h { k . k ¼ , u - , e - c h - , - ½

t y k b & f l r e c j 2005 d s n k s k u 5 e h - x 5 e h - v l r j k y d k m i ; k s e d j d s v k B c k d ç t k r ; k a ; F k k & c E c i l k c f e c k l] c E c i l k c k Y d a q k l c E c i l k U ; W U l] c E c i l k V W M k j M s M k d s y k e l , L i j j M h - g f e Y V k a u k b z M h - t k b x b v l v k \$ M h - L V k k e t h ¼ c a y k \$ e a v k \$ M h - L V k k e t h ds LFkku i j x q M a q v a x f L V O k f y ; k ¼ Q - v k j - l h j g n j k c k n e a i j h { k . k L F k k i r f d , v k \$ u Y y k y c a y k \$ r F k M y k i Y y h j g n j k c k n e a i k s ' k r f d ; k A c E c i l k c k y d a q k e a v f / k d r e m u k j t h f o r k n j ¼ 400% ½ v k \$ M h - , L i j e a U ; w r e ¼ 50% ½ F k A v k B ç t k r ; k a e a l s M h - g f e Y V k a u k b z c a y k \$ e a l k f k g h l k f k g n j k c k n e a u k y d h A p k b z ¼ 5 - 89 e h - ½ v k \$ 0 ; k l ¼ 31 - 8 f e - e h - ½ d s l U n H z e a l o k k e f l) g b A b l d s c k n M h - L V k k e t h j c h - c k Y d a q k v k \$ c h - U ; W U l j g A M h - , L i j u s U ; w r e A p k b z ¼ 4 - 6 e h - ½ d k ç n ' k u f d ; k A

ekUM; k ftyk] dukVd ea , d i k j E i f j d Q k b d l v k / k f j r d f ' k o k f u d h ç . k k y h d k i k f j L F k f r d h ; j v k f F k d v k \$ l k e f t d & l k a l d f r d e w ; k a d u

ekUM; k ftyk ea 6 rkyoka dks doj djds yxHx 140 fdI kuka dk l o { k . k v k \$ 11 xlp Lrj



l o{ k.k ij k fd; k x; kA fdl kuka ds [krka ea [kjirokj
 VS LFkfr fd, A [kjirokj ekfl d #i l s, d= fd; k
 tk jgk gSvks fofHku ikskdka dsfy, fo'yf'kr fd; k
 x; kA [kjirokj vi?kVu v/; ; ukadsfy, [kjirokj
 cS ekfl d #i l sçlkr fd, A vi?kVu iSvuzdseW; kadu
 gsrq çØfer ,oa fo'yf'kr fd; kA l qe tyok; oh;
 iSkehVjkads {ks= eaekfl d #i l svfHkfyf [kr fd; k tk
 jgk gA

vkU/kz çns'k ea vksk/kh; i kni ka ds fy,
 cgr rjh; 'kL; kRi knu ekW/yka dk fodkl
 1/4 u/kh; u , t d l h % , u- , e- i h- ch- 1/2

l xkS + plnu] 'kh'ke + plnu] ; wsfy l
 + plnu o{kads l kFk l a kst u ea vksj l xkS , oabuds
 l æfUkr , dy Ql yka ds l kFk l a kst u ea N% gDVs j
 {ks= Qy ea vksk/kh; i kni ka ; Fkk& , UMksxf Ql
 i sudny/kVk] vksl ee l DVe vksj foFkfu; k
 l kFEUQjk dh rhu Ql yayxkbzxbA l Hh rhu vksk/kh;
 i kni ka dh of) dsfy, 'kh'ke + plnu l a kst u cgr
 mi; Ør ik; k x; kA , - i sudny/kVk bl ds ckn
 vksl ee l DVe vksj foFkfu; k l kFEUQjk bl Øe
 eacgrj vuqny ik; k x; kA l xkS o{kads of) vkdMka
 us fu; æ. k dh ryuk ea vUr% Ql y ea cgrj of)
 n'kz kA 'kSk ifj. kka dk foLrkj djus ds fy, nks
 çf'k{k.k , oadk; Zkkyvkadk vk; kst u fd; k x; kA bl ds
 vykok plnu dk"B] 'kh'ke vksj l Hh rhu vksk/kh; i kni ka
 ds l kFk xki kyxv e. My dsetukuj vksj fFk# l i kyki je
 xpkæanksvkU & Qkezi jh{k.k rS kj fd, x, A

vkU/kz çns'k] dukd vksj xkS ea N%
 egRo i w kZ çk] çtkfr; ka ; Fkk& cEcil k
 ckYdçk] cEcil k U; wUl] MMSMksdSykel
 , Li j] MMSMksdSykel gSfeYVksukb]
 MMSMksdSykel LVkWh vksj xq Mqvk
 vxçfLVQksfy; k dk cgr Fkkfud l w= i kr , oa
 çn'kz i jh{k.k , oa {ks= eW; kadu

2009&2010 ds nSku l Hh pkj LFkyk
 [vkU/kz çns'k ea çxki M/10 gDVs j 1/2 vksj fparkyki Mh
 1/10 gDVs j 1/2 uorij 1/20 gDVs j 1/2 dukd vksj , xyks/

1/5 gDVs j 1/2 xkS] ea l e; & l e; ij vkdMk l æg. k
 fd; k x; kA tgykb&vxLr 2009 ds nSku uorij LFky]
 ds, Q-Mh- ea ejs ikskdka dh txg nu j s ikskdka dk jki .k
 fd; k x; kA çtkfr; kadscgr ço/kz dsfy, fuEu
 ykx i klyhVuy dsfuekz k vksj çk cgr çpjkHkou
 ij xkS ou foHkx ds vf/kdkfj; ka dks çf'k{k.k fd; k
 x; kA okuLifrd ço/kz rdudka tS & uky dyek
 'kk[k dyekavksj çdlnh; dyekadk xkS ou foHkx ds
 dkfzkdsl e{k çn'kz fd; k x; kA

vkU/kz çns'k ds v/kz' k d m". kdfVcu/kh; ea
 o{k çtkfr; ka ds #i ea jkbv; k fVØVksj; k
 vkj- ch- vksj esykbuk vkckjh; k jkd l c ea
 d f" k okfudh ek. Myka dk fodkl

ijh{k.k rS kj djus dsfy, , d fdl ku ds [kr
 dk p; u djds rS kj fd; kA esykbuk vkckjh; k ds
 i kS mxk, vksj fofHku mi pkjadso {k?kVd ds #i ea
 jki .k dsfy, jkbv; k fVØVksj; k dscht , d= fd, A

fo|eku l xkS jki .kka ds rgr vksk/kh;
 i kni vk/kkfjr d f" k okfudh ç. kkyh
 1/10 l o/kz & vksk/kh; 1/2 dk eW; kadu

vksk/kh; i kni vk/kkfjr d f" k okfudh
 1/10 l o/kz & vksk/kh; 1/2 ç. kkyh ; Fkk& l xkS & gYnh]
 l xkS & d d m vksj l xkS & dkfygkj h dk fodkl fd; k
 x; kA {ks= ijh{k.k vksj çf'k{k.k } kjk fodl r ek. Myka
 dks mi HkDrk l egka ea gLrkUrfjr fd; kA bu rhu ou
 l o/kz vksk/kh; ç. kky; kaal sl xkS & gYnh ç. kkyh dks
 mi HkDrk l egka us; ki d #i l s Lohdkj fd; k gA



tcyij ftysdsfdl kuka dsfy, {ks= in'kz



MScftz k fl LI & th- est d'f'k okfudh
ç.kkyh eadbdzh mRi kndrk dk eW; kadu
m".kdfVclU/kh; ou vuq U/kku l hFku ifj l j ea
4 eh- x 4 eh] 5eh- x 5 eh- vks] 6 eh- x 6 eh- ds
3 fofHku vlrjkykaea10 eh- x 10 eh- vkdkj ds21 Hkf.k.Mka
dsl kfk nksl ky dsMScftz k fl LI wjksi .k eal d j edbz
dsl kfk vks, l -vkj- ijh{k.k r\$ kj fd, x, vks] jksi .k
{k= dscgkj 3 Hkf.k.Mkadks [kkyh j [kk x; kA l d j edbz



MScftz k fl LI & th- est d'f'k okfudh izkkyh

chtka dks ; knfPNdhr cykka vfhkdYi viukdj
60 l seh- vks] 120 l seh- dsQI y ykbu vlrjky l so{k
dsl kfk 60 l seh- x 20 l seh- dsml h vlrjky ij cks k
x; kA edbdzh QI y dkVh xbZvks] mRi knu vkdMkadks
vfhkfyf [kr] l kj .khr vks] l ka[; dh; #i l sfo' yf'kr
fd; kA edbz QI y ds vf/kdre mRi knu ds fy,
60 l seh- o{k l sQI y ykbu vlrjky dsl kfk 5 eh- x 5 eh-
dh o{k njih l okke fl) gba edbzQI y dsjki .k vks]
dVku dsl e; MScftz k fl LI wknidsof) i\$kehVj
; Fkk dkWj j 0; kl , oaApkbZdksvfhkfyf [kr fd; k x; kA
5 eh- x 5 eh- dso{k vlrjky dsl kfk cykka eaApkbZvks]
dkWj j 0; kl ea vf/kdre of) çs{kr dh xbA edbz
QI y dsjki .k vks] QI y dVku dsl e; , df=r enk
uewka dks ih-, p-bZl h- vkxud dkcu] miyC/k



fl LI & edbz izkkyh dsrgr dkVh xbZ
chp dh QI y edbz dsuews

ukbVrst u] QkLQkj l] i kVSI ; e rFkk ca⁺⁺, mg⁺⁺ dsfy,
fo' yf'kr fd; kA

e/; Hkkjr eaof/kzr vk; l `tu dsfy, u; h
ckal d'f'k okfudh rduhdka dk i k's'k. kh;
fodkl

m".kdfVclU/kh; ou vuq U/kku l hFku]
tciyij ea d'f'k okfudh Hkf.k.M ea vkku LVSku
vuq U/kku ijh{k.k ds #i ea LFkfir ckl & xgw d'f'k
okfudh ç.kkyh l sxgndh QI y vçsy 2009 dsfegusea
dkVh xbZ vks] nkpus rFkk l kQ djus ds ckn xgw
mRi knu dk vkdyu fd; k x; kA

ckal dh nks çtkfr; ka ; Fkk&M/MkadSyke l
fLVdVI vks] cEcl k U; wUl eaer i k'ka dh txg
nh jsyxk, x, A xgwndh QI y dkVusdscn ckl & xgw
d'f'k okfudh ç.kkyh l senk uews, d= fd, vks] fofHku
Hk&rd jkl k; fud xqka, oa?Vdkdsfy, fo' yf'kr fd; kA

jkou jat cuBki jk ifj; kst uk çHkx]
Nukh x<+ea çxfr'kny fdl kuka dh igpku djus ds
fy, , d l ghkxh xkeh.k eW; fu/kkj .k çfØ; k dh xbA
fdl kuka dks 14 vks] 15 ebZ2009 dksckal vk/kfjr d'f'k
okfudh ç.kkyh vi ukusdsykHkai j ç' k{k.k fn; k x; kA
bl dsckn fdl kuka }kj k 0; Dr dh xbZvko' ; drkvkds
vuq kj i klyhi kv i k'smudsd'f'k [kr l hekvai j jksi .k
ds fy, miyC/k dj k, x, A ckl l BVj] Xokfy; j]
e/; çn'sk ea çxfr'kny fdl kuka dh igpku djus ds
fy, bl h çdkj dh çfØ; k dh xbA bu fdl kuka dks
25&26 ebZ2009 dksckal vk/kfjr d'f'k okfudh ç.kkyh
vi ukus ds ykHka ij ç' k{k.k fn; k x; kA bl ds ckn
fdl kuka }kj k 0; Dr dh xbZvko' ; drkvka ds vuq kj
i klyhi kv i k'smudsd'f'k [kr l hekvai j jksi .k dsfy,
miyC/k dj k, x, A



Qal vk/kfjr d'f'k okfudh izkkyh; ka
dks vi ukus ds ykHka ij if'k{k.k



ckd & xsgm dfr'k okfudh c.kryh LFkfr djrs
 le; lfr ckd jki.k eamMm chtka dks ckdlj , d
 vku&LVsku vuq U'ku ds#i ea, d ckd & mMa %yfd
 xke½ dfr'k okfudh c.kryh LFkfr dh xba mMa chtka
 dh cq/kbz djus l sigys vku&LVsku vuq U'ku ea
 mifLFkr Mh- fLVdVI vksj ch- U; WUI dsqr; d ckd
 ikni ds of) vktMs; Fkk& dkyj 0; kl , oa ApkbZ dks
 vfHkyf [kr fd; ka mMa chtka dh cq/kbz djus l sigys
 ck; ksd Hk[k.M l s enk uems , d= fd, x, vksj
 c; kx'kryk ea fofHku Hksrd&jkl k; fud xqka vksj
 ?kVdksfy, fo'y sk.k fd; k x; ka

MhMrdSykel fLVdVI vksj cEc k
 U; WUI dh vxz.kh uky ds of) i jkehVjka; Fkk& dkyj
 0; kl , oa ApkbZ dks vfHkyf [kr , oa l kj.kh r fd; A
 mMa dh Ql y dVusdskn enk uemsfy, vksj buds
 jkl k; fud ?kVdka , oa Hksrd xqka ds fy, fo'y sk.k
 fd; k tk jgk gA

f}rh; pØ eavku&LVsku vuq U'ku ds#i ea
 ckd & xsgm dfr'k okfudh c.kryh LFkfr djusdsfy, xsgm
 cksusgrq, d ck; ksd Hk[k.M r\$ kj fd; k x; ka xsgmckus
 l sigys enk uems , d= fd, ftudk fofHku
 Hksrd&jkl k; fud vksj Hksrd xqka , oa l kVdka ds
 fy, fo'y sk.k fd; k x; ka xsgm dh cq/kbz djus l sigys
 ckd dh nks ctkfr; ka ; Fkk& MhMrdSykel fLVdVI
 vksj cEc k U; WUI ds vxz.kh uky dh of) i jkehVjka
 ; Fkk& dkyj 0; kl vksj ApkbZ dks vfHkyf [kr fd; k
 x; ka

vku LVsku vuq U'ku ijh{k.k ds#i eadbl
 pØ eackd & xsgm dfr'k okfudh c.kryh dh LFkfr uk djus
 dsfy, jksr nks ckd ctkfr; ka ; Fkk& MhMrdSykel
 fLVdVI vksj cEc k U; WUI dschp , d cht fm'ij
 dk mi ; kx djds xsgmck k x; ka xsgm dk vadg .k n[kk
 x; k vksj bl cdkj LFkfr dfr'k okfudh c.kryh
 dksvkt rd i k'kr fd; k tk jgk gA

vksk/kh; o{kka 'kkolka ds l kfk dfr'k okfudh
 ekWly

egRo iwkZ vksk/kh; iknika vksj o{kka ds xqkoUkk
 cht igpku fd, x, l kskal s, d= fd, x, A fd l kuka
 ea forj.k grq i ksk'kryk ea , xy ekehZykd]
 , UMRsxfQl ifudnykVkl , Lijxl j\$ hekl l]
 ekjxk vksyQjk] jkoksYO; k l i BVkbul]
 jkoksYO; k VVRQkbyk vksj foFkfu; k l kSEuQjk ds
 djhc 30j000 i kka dk jki .k fd; k x; ka VekVj vksj
 vkyw t\$ sfo|eku l kykuk Ql y ds l kfk , fEcYdk
 vkfQl usyl vksj ekjxk vksyQjk vkWkfr dfr'
 okfudh jki .k LFkfr fd, x, A vksk/kh; ikni kadh of)
 ij Nk; k dsqHko dk vl; ; u djusdsfy, [kyseal kfk
 gh l kfk , xy ekehZykd] ekjxk vksyQjk dh Nk; k
 ds rgr , UMRsxfQl ifudnykVkl , Lijxl
 j\$ hekl l] jkoksYO; k l i BVkbul] jkoksYO; k
 VVRQkbyk] foFkfu; k l kSEuQjk ds vksk/kh; ikni
 Hk[k.M LFkfr fd, x, A ifj; kst uk ds vlrxZ QkeZ
 ; kmZ [kkn , oa tsmoj] d enk rFk ckyw [kjhnh xbz vksj
 12 fd l kuka ea forj.k fd; k x; ka vksk/kh; ikni kadh
 vku LVkjh vksj vl; dfr'k Ql ykankal svrfjDr ykHk
 ckr djusdsfy, vksk/kh; ikni kadh [kch vksj egRo ds
 ckjseaykskadschp tkx#drk dk l tu djusdsfy,
 ifj; kst uk ds rgr 100 ykskadsch'k{k.k fn; k x; ka

o'kZ ou vuq U'ku l kFku] tkjgkV ea cgn
 cpjknHkou rduhd] ckd dfr'k okfudh cCUk] eNyh
 ikyu] e/keD [kh ikyu] ckd , oa carka dh i ksk'kryk
 rduhd] xEgkj dh fuEu ykxr vksj vyi vof/k
 i ksk'kryk rduhd t\$ sfofHku fo'k; ka ea 65 ifjokjal s
 dy 77 xkeh.kka dks c'kf [kr fd; k x; ka l hch-Vh-l h-
 xqkgVh ea f'kyi @ f'kyi dkrk ea ikp xkeh.kka dks
 c'kf [kr fd; k x; ka o'kZ ou vuq U'ku l kFku }kjk
 fodl r dfr'k okfudh ek.My dks b"Vre , oa l rr-
 mRi kndrk dsfy, xkeh.kka }kjk viuk; k x; k gA nks
 ck; kx\$ lykUV Hk xkp ea LFkfr fd, x, vksj bl dk



यहक व/कद्रे ifjokjka dksfeyk गा व/ ; ; u usmn/kfjr
 fd; k gSfd vU; mRi kn d dk; ka ea Lo; adksyxkusgrq
 viuk le; cplus vls baku dk'B dsfu"d"lk k dksHh
 U; ure djusvls bl cdkj i; kbj.kh; cni.k dks?KVkus
 ds vykok ikfjokjd mnas; ka ds fy, Atlz dh
 miyC/krk eal dkj gpk ga xteh.ka dks eNyh ikyu ds
 fofHku igy/ka; Fk& enk ijh{k.k} rkyk dk vkdkj , oa
 #i] <ky dk vuqkr] ih-, p- Lrj dsj [kj [kko] fofHku
 eNyh ctkr dsp; u vls Hkj.k iSuzvkn ij xteh.ka
 dkscf'kf{kr fd; k x; ka jksh dkVyk] xtl dki? fejdj
 fl Yoj dkiZvls dksu dkiZtS h fofHku ctkr; ka ds
 vkrfyd dks ikyu dsfy, LFkkuh; vkoLFk dsfy,
 mi; Dr fofgr fd; k x; ka fofok ctkr; ka ds
 1200 fQaj fyAl dk l#ikr fd; k vls igys l ky
 ~ 10]500-00 dk 'kq यहक dek; ka ckn dsl kykaevk;
 U; ure #i l sc<ch vls xteh.k l rr-vk/kj ij T; knk
 यहक ctkr djak ipkl xteh.ka dks e/keD [kh ikyu ea
 cf'kf{kr fd; k x; ka cf'k{k.k ds nlsku] e/keD [kh ds
 p; u] dksy/kuh l Okb] fu"d"lk k pscj dh 0; oLFk] Qy/ka
 dh vuqyC/krk ea [kk] inkfkdh vko'; drkj >bl okyh
 e/keD [k; ka dks i dMuk] 'kgn fudkyusdh fof/k] NUsdk
 fu/kj.k vls fQvax] folFki u dsl e; rFk vU; cclU/k
 igy/ka tS se/keD [kh ikyu dsfofo/k fo"ka; ka dks doj
 fd; k x; ka cR; d यहकFkhz us, d e/keD [kh ckl ea
 'kgn dk fu"d"lk k fd; k vls l ky ea6 l s7 fdyk's kgn
 ctkr djds 1]200 l s 1]400 dek, A ckl vls xEgk ds
 l kfk chp dh Ql y l sdkvh xbZ Ql y vls vls kfudh
 ,oa ek eh; ouLifr fo'kstdj Hkkj tksykd; k
 1/2k fpyh/2ds l #i kr usHh Oeokj fd l kuadksvfrfDr
 vk; miyC/k djkbA

OkeZij ifj; kstuk dsrgr] [kk] cjsj mRi knu
 dsfy, ckl jki.k cclU/ku vls cgn cpjknHkou rduhd
 dk mi; ksc djds iSk'kyk if)fr; ka ij cf'k{k.k vls
 c'n'ku }kjk cgn cpjknHkou rduhd ea uohudj.k
 vls [kk] ckl ds0; kifjd jki.k dsfy, ckl l kgu , oa

Lo; al gk; rk l eij l nL; kadk {kerk fuekz k fd; k x; ka
 vfrfjDr vk; dsfy, LFkkuh; #i l silun dh tkus
 okyh Ql yka ds 'kL; kRi knu }kjk vUr% vUrjkyka dk
 mi; ksc djus grq xteh.ka dks cjsr Hh fd; k x; ka
 LFkkuh; m|fe; ka dsl kfk l EidZcBd l sHh tkjgkV ea
 fLFkr 1/2Fky l s 60 fd-eh/2 cjsj cOe.k m|kska l s
 l gkuqU/k fodfl r djds [kk] cjsjka dsoi .ku eamUga
 l gk; rk feyhA ifj.kke cgr mRi kgtud ik, x, vls
 bl ekMy dsl ehi orhZxpkaeankj;k; k x; ka

iokk] Hkkj ea>e [ksh ij vk/kjHkr l puk
 dscy [ki ksk.k ifj; kstuk dsrgr l EiwZ iokk] jkT; ea
 X; kjg cfrfuf/k LFkyka dk p; u fd; k x; ka >e [ksh
 i)fr; ka ij l puk@vkdM/s ds l azg.k dsfy, {ks=
 l oZk.k fd; k x; ka l e; Jajkyk vkdM/kausi iokk] jkT;
 ea>e [ksh dsrgr {ks= eavoufr #>ku dksn'kz, ka
 iokk] jkT; ka ea>e [ksh dh pkj LFkku foku n [ks
 x; A >e [ksh {ks=kaevfHkyf [kr #i kUrj.k eal sced [k
 ijr h >e Hke; ka dks vls kfudh , oa okfudh jki .ka ea
 #i kUrj.k ga jkbtks; e ds iFkdj.k l jki.k
 rduhd] enk dshksrd jkl k; fud fo'ySk.k] Ql yka ds
 mRi knu fo'ySk.k dsfy, bl v/ ; ; u eaviukbzxbZ
 dk; Zi)fr; kj ifj; kstuk dsfu/kkzr mnas; ka dks ij
 djusdsfy, mi; Dr vls cHkoh ga

iokk] {ks= eaouka l scgj ckl [ksh dks
 ckl kfgr djus ds fy, mi; Dr df"k
 okfudh ekMyka dk fodkl

ifj; kstuk ds rgr df"k okfudh jki .ka dks
 LFkfir fd; k x; ka vls kfud , oa df"k ijh{k.k.ka ij
 vUr% 'kL; kRi knu] tSodh; tM+vojkska ds cHko ij
 ijh{k.k vls forku ifjpyu tkjh ga ifj; kstuk ds
 rgr cLrkfor rduhdh dk; Oe vls dk; Zi)fr; ka
 tS k Aj mfyf [kr gS mnas; ka dks gkl y djusds
 fy, mi; Dr ik, x, ga



'kq'd {ks= ds fy, vkfFkd #i l s 0; ogk; l vksj , dhdr df'k okfudh ekWMyka dk fodkl

Xkq g'kz fcykjkj ftyk&tkski g eafdl kuka ds [krkaedf'k okfudh ekWMy LFkfi r vksj i ks'kr fd, x, A gjh [kn ds fy, [kr ea o'kz ds nksku l d cfu; k , D; w/h, Vk 1/4 1/2 mxk; k x; kA fttfQl ekf'kz kuk 1/4 1/2 vksj c j 1/2 ctkr dk c'n'kz vksj kfud ctkr ds#i eal okke ik; k x; k j tcd dksykQkzie ekWsh ou l o/kz ctkr ds#i eal okke FkA

OksykQkzie ekWsh us 181 l seh- dh vkf/kdre Apkz 1/4 vksj r 1/2 gkfy dh bl ds ckn ckd kfcl fl ufj; k 1/4 73 l seh-1/2 dksMZ k fedl k 1/4 69 l seh-1/2 , yUFl , DI Yl k 1/4 65 l seh-1/2 vksj fttfQl ekf'kz kuk 1/4 36 l seh-1/2 jgA , yUFl , DI Yl k eadklyj 0; kl vfk/dre 1/5-96 l seh-1/2 Fk] bl ds ckn dksMZ k fedl k 1/5-83 l seh-1/2 l h ekWsh 1/4-52 l seh-1/2 vksj i h fl ufj; k 1/4-19 l seh-1/2 jgA fu; a. k 1/2 Ql y dsfcukz dh ryuk eadf'k okfudh Hk] k. Mkaei kni of) mPp FkA o'kz ds nksku xsgQl y mRiknu 13-67 fdolVy cfr gDVs j vfhkfyf [kr fd; k x; kA

fgekpy cns'k vksj tEew o d'ehj dh fupyh i gkM; ka ea df'k okfudh ds fy, esykbuk vkckjh; k dk l w-i kr , oa c'n'kz i jh{k. k

ou mRikndrk l hFkku jkph dsek/; e l s ikp LFkkuka l s chtka dh cklfr@l xg. k fd; k x; kA fuEu i gkMh {ks= dk cfrfuf/kRo djus oksy tksj k 1/4 kDvk l kfgc 1/2 vksj fcj i ykl h 1/4 kyx < 1/2 eafLFkr l hFkku dh i ksk' kkykvkadk mi ; ksx jki . k LVkHl dsmRi knu dsfy, fd; k x; kA {ks= l o'k. k dsckn fgekpy cns'k eai #okyk vksj dks/ eavksj tEew d'ehj eawlk , oal Urjcsyk ea fuEu i gkMh {ks= ea pkj LFkyka eki 5-0 gDVs j dh igpku dh xbZvksj rhu cfrdfr; kads l kfk ; knfPNdhdr cykHl vfhkdyi viukdj ck; ksd i jh{k. k LFkfi r fd; kA ; |fi Hko"; ok.kh djuk tYnh glosk fQj Hh ckjfehkd of) vkpMha us n'kz k fd

esykbuk vkckjh; k vl/ ; ; u LFkykaevPNk c'n'kz dj jgh gsvks LFkfi uk dsns l ky dshkrj djhc 2 ehVj dh vksj r Apkzcklr dj yhA rFkfi] ckjfehkd ifj. kkeads of) vkpMh n'kz s gsf d esykbuk vkckjh; k bl ds vyi pØ vof/k dls/ ; ku eaj [krsgq] fuEu i gkM; kads fy, , d Hkoh jki . k ctkr gkl drh gA

gehji g ftys ds fo'k'sk l UnHkZ ds l kfk fgekpy cns'k ea egROI w kZ ns'kt df'k okfudh o'k ctkr; ka l senk mojr k Lrj , oai k'skd cklr dk ew; kadu

l gl eUkka, oal hrf; kadsfodf l r djus ds fy, df'k ou l o/kzud c. kkyh dsek=kred i jkehVjka dksvfhkfyf [kr fd; k x; kA ifj. kke n'kz s gsf d orzku vl/ ; ; u djus ds fy, p; fur N%egROI w kZ df'k okfudh ctkr; ka 1/2 ckj Eckjrk > 56% 1/2 {ks= ea ckdfrd #i l s i kbZ tkusokyh df'k ou l o/kzud df'k okfudh c. kky; ka dsvfhkku Hkx Hk gA , df=r enk uewkads fo' yf'kr fd; k x; k vksj vl/ ; ; u dsvlrxz Ajh enk l h rjkaea ukbVksu mPp ns[kh x; h] ft l usvf/kdkak df'k okfudh ctkr; kaeenk dsfupysl h rjka dksvksj gkl dh cfoUk dksfn [kk; kA enk fo' ysk. k dsckjfehkd ifj. kke enk ds mojr k Lrj dksuc, j [kusead f'k okfudh ctkr; kadh , d l dkj kRed Hkiedk dksn'kz h gA

ceqk df'k okfudh ctkr; ka 1/4 k 1/2 ds [kji rok] ea i ksd ek=kvka dks ew; kadr fd; k x; k tcd N%egROI w kZ df'k okfudh ctkr; ka; Fk& xhfo; k vkfVok] ekj l , Yckj l hfYVI vkLVfy l] ckgfu; k ofj xkVkj ruk fl fy, Vj] , fycft; k pkbuH l l i j i jh{k. k fd, x, A ck; ksd {ks= l s, df=r [kji rok] uewkads i ksk. k vksj vkxsjkl k; fud fo' ysk. k dsfy, vfk/d i FkDdr fd; k x; kA Aj mfyf [kr egROI w kZ df'k okfudh ctkr; ka }jk [kji rok] mRiknu ds ckjfehkd ifj. kkeaus n'kz k x; k fd dgy feyk dj ; s ctkr; kafohkku [kji rok] kacHktkads }jk l kykuk #i l s d kQh ek=k ea [kji rok] i kru ea l g; ksx djrh gA df'k okfudh ctkr; kads [kji rok] ea i ksd ek=kvka i j i jh{k. kkeaus ckjfehkd #i l sn'kz k fd bu N%egROI w kZ



ç tfr; ka dh i fuk; ka ea v/; ; u fd, x, ikp ikskcka
%ukbVktu] QkLQk] QkVf'k; e] dsvl; e vks
e%uf'k; e%eal s, d dh l khrnk mpp Fkj tksv/; ; u ds
vUr eafofHku l gl e%kka@ifj. kkeka dks ikuseal gk; d
gksl drk gA

>kj [k.M vks if'pe cakky eadna vks l ey
dh çkdfrd vkckfn; ka vks jki .ka ij l puk , d= dh
xbZvks 30 dSUMMS/ /ku o{kka dh igpku dh xBA *jki .k
okfudh dsfy, i%hZkkr dsnkt rst of) djusokys
cgmnash; o{kka dseV; ka tu dsfy, , dhdr j. kulfr^
ifj; kstuk ds rgr Dyksuh; ço/kZ çfØ; k, a fodfl r
djus ds fy, vfHkdfyir 'kjhifjdh; i%kehVjka , oa
ç; ka ka ij dSUMMS/ /ku o{kka dk l ki %k fo'ysk.k ij k
fd; k x; ka

2-2-4- ou enk , oaHkfe l qkkj

fxjh tyxg.k] fgeky çns'k ea enkva , oa
vksud&l h Hk. Mkj dk Lrj

fgeky çns'k dsfxjh tyxg.k eav/; ; u fd,
x, A Hk sedh; #i l s v/; ; u {ks= ea i%&rri; d
pVVkus 'kfev gA 'kfydh; #i l spVVku l j puk, a
ykbeLVksu] Mksykebv] Lyv+] 'k] l] Dokbt kbv+]
l SMLVksu] fl LV] Okbykbv+] dkkyejv+] ckMIZ
vkn dsfeykdj cuh gA fxjh tyxg.k eaou {ks= ea
8]165] 593-15 Vu %8-16 fevy; u Vu% enk vksud
dkcZ Hk. Mkj gA dfr'k Hkfe mi ; ks dsrgr enk vksud
dkcZ Hk. Mkj 3]167]521-58 Vu %8-16 fevy; u Vu% gA
eU/kyh l j puk ea {kjh; enk vfHkØ; k] buYk Øky
l j puk ea mnkl hu ikbZ xbZ tcfD Økd l j puk
vEyh; enk vfHkØ; k n%kh xBA l ?ku ouka ea enk
ih, p- pHM+%42% n%jkn %5-91% vks Lçl %5-00% ds
gkl eku Øe eaçf{kr dh xBA mi yC/k QkLQk] Cysuh
vks Øky l j puk eadettj] eU/kyh , oaØky l j pukvka
eae/; e vks FkLV vks QkYV LFkkukaemPp ik; k x; ka
mi yC/k iks/k'k FkLV vks Øky l j pukvkaemPp vks
eU/kyh , oaCysuh l j pukvkaeae/; e FkA

u%hrky ds fuEuhdr ouka ds fy, Hkfe
mi ; ks ekMly dh l rfr

u%hrky vks l ehi ortz {ks=ka u%hrky ou çHkx
eav/; ; u fd; k x; ka {ks= eafofHku Hkfe mi ; ks kadh
igpku djdsv/; ; u fd; k x; k%

phM+ou

l ?ku %enk, avfHkØ; k eavEyh;] pkydrk ea fuEu gA
vks cybZnEV l j puk gA bu enkva ea vksud inkFZ
1-63 l s3-85% rd gA

foor %enk, avfHkØ; k eavEyh; l s {kjh;] pkydrk ea
fuEu gAvks cybZnEV l j puk dh gAvksud inkFZ
3-35 l s3-70% rd gA

l ky ou %

l ?ku %enk, a l kekl; r%neV l sxkn neV gA bl ea
fuEu l se/; e o% pkydrk gA vksud inkFZ ea
fuEu l se/; e %4-66&3-79% %A

foor % enk, a vfHkØ; k ea vEyh; %5&15&5&68%
pkydrk ea fuEu gAvks cybZnEV l j puk okyh gA bu
enkva dk vksud inkFZ 1-66 l s3-10% rd gA

fofo/k ou %

l ?ku %enk, avfHkØ; k eavEyh; %5-31&5-95 ih, p-1/2
pkydrk ea fuEu l se/; e gsvks cybZnEV l j puk
dh gA bu enkva ea vksud inkFZ 1-62 l s5-41%
rd gA

foor % enk, a vfHkØ; k ea vEyh; l s {kjh;
%5-40&7-85 ih, p-1/2 pkydrk ea fuEu l se/; e gsvks
cybZnEV l j puk okyh gA bu enkva ea vksud
inkFZ 1-66 l s4-38% rd gA

vkcd ou %

l ?ku %enk, avfHkØ; k eavEyh; pkydrk ea fuEu l s
e/; e gsvks cybZnEV l j puk dh gA bu enkva ea
vksud inkFZ 3-7 l s6-1% rd gA

foor %enk, avfHkØ; k eavEyh;] pkydrk ea fuEu l s
e/; e gsvks neV l scybZnEV l j puk dh gA bu
enkva ea vksud inkFZ 3-7 l s5-40% rd gA



fuEuhdr LFkykadsfy, jki.k rduhd nh xbZ rFk fofHku fuEuhdr Hkie; ka ij ouhdj.k grqmi; Dr ctkfr; kadk l qko fn; k x; ka

mUkj[k.M dh enk l jupuk ij HkkSedh] ouLi fr , oa tyok; qdk l ki sk cHkko

mUkj@if'peh fgely; dsmUkj[k.M ou l Hkh pVVku l jupukva ds l ae gfi ftl ds ifj.kelo#i fofHku tyok; oh; {ks-kaeafofHku enk, avkS ouLifr c#i gA okfudh vuq U'ku ea HkkSedh dk egRo enk mojr k Lrj dseV; kadu ea vkSj vR; f/kd mRiknu grq enk dsccU/k ea vR; f/kd egRo dk gA {ks= dk l of.k.k fd; k x; k vkSj iWZ fu/kkZjr xgjk; ka l s fofHku ckdfrd ouka dsrgr mUkj[k.M dsngjknw] pekyh] fiFKS kx<f vYek/k vkSj ckxsoj ftya l s enk uews , d= fd, x, A cR; d LFku ea cfrfuf/k LFkykadk p; u fd; k x; k] tks HkkSedh ouLifr vkSj tyok; q ea fofHkurk ij fuHkj gA cR; d uewafclnq/kaerhu enk ckQkby Hkh [ksh xbZvkSj fofHku vkuqf'kd l arjka l s uews, d= fd, A vc rd , df=r enk uew kadk muds Hksrd&jkl k; fud xqkadsfy, fo'y sk.k fd; k tk jgk gA , d l eku vFkok vvx&vyx ouLifr , oa HkkSedh; l jupukvaokysfofHku uewafclnq/ka l spVVku dsu, uewsfy, A 10 eh x 10 eh dsmi; Dr l q; k ea DokMS/ cR; d uewafclnq/ka ea r\$ kj fd, x, vkSj DokMS/ ds Hkrj o{kadh o{kBprk O; k l } ApkbZvkSj N= {ks=Qy ds fy, x.kuk dh tk, xhA enk l s iFkDdr ckyw vkSj fpduh feVVh ds cHkktka dks [kfuftdh; tkp dsfy, r\$ kj fd; k tk jgk gA

mUkj[k.M dh enk vkxZud dkcZu l qph

okrkoy.kh; co₂ dh l kuhrk dks; k rismRI tZu ?kVkdj vFkok okrkoy.k l s co₂ dks ckjg fudkydj vkSj LFkyh;] l eqh vFkok tyh; i k j r a k a e a H k . M k j r d j d s d e f d ; k t k l d r k g A e n k f o ' k s k d j o u e n k i F o h i j d k c Z u d s e q ; g k s t e a l s , d g A D ; k a d b u e n k v k a e a l k e l u ; r % o u L i f r d h r g y u k e a m P p d k c Z u

glrk gA {ks= vkSj c; ksk'kkryk dk; Zdsfy, , d l eku dk; Z) fr viukdj mUkj[k.M eaoukaeal kFk gh l kFk vU; Hkie mi; kskaeenk vkxZud dkcZu dk vkdyu djusdsfy, l q; ofLFkr ifj; kstuk@v/; ; u dk dk; Z ughafd; k x; k gA ; g ifj; kstuk mUkj[k.M ds l Hkh ftykaeafofHku Hkie mi; kskseaLFky l R; rk }kjk enk vkxZud dkcZu ds ckjs ea ekud vkbZi-h-l-h-dk; Z) fr viukdj O; kid vkSj fo'oluh; l jupuk l ftr djsxhA 2009&2010 ds nSku] mUkj[k.M ds l Hkh ftykaeafofHku LFkkual senk vkxZud dkcZu vkdyu dsfy, fofHku Hkie mi; kskal sclq 1108 enk uews, d= fd, A bl l ky mUkj[k.M ds fofHku ftykaeafofHku oukoj.kka l s 846 uews fofHku jki.kal s 135 uews fofHku vkSj kfud Hkie mi; ksk l s 94 vkSj dfr okfudh ekMiyka l s 34 uews, d= fd, x, A mi; Dr uewka ds vykok mi; Dr 202 LFkkual s LFky ?kuRo , oa dks Z[k.M vkdyu dsfy, Hkh 404 enk uews, d= fd, x, A enk vkxZud dkcZu] LFky ?kuRo , oadk Z[k.M ds fy, l Hkh uew kadk fo'y sk.k fd; k x; ka

e/; Hkkjr ds l ky ouka ea [kji rokj vi?kVu vkSj enk ds i k s k d Lrj ij bl dk cHkko

e/; cns k NUkhl x<+vkSj mMH k dsl ky ou l s v/; ; u LFkyka dk p; u fd; k x; ka [kji rokj ds vi?kVu ea 'kfey l qe ouLifr vkSj ckr.ktkr ds v/; ; u dsfy, fofHku ijrka l s [kji rokj uews, d= fd, A c; ksk'kkryk eadod ds 45 vkb l ksy/4 dks i k s k r fd; k x; ka 3 fofHku LFkyka l s dkcZu ckg dks vHkyf[kr fd; k x; ka p; fur vi?kVudkj dh dh igpku vkSj cy[ki ksk.k cxfri j gA orZku v/; ; u [kji rokj vi?kVu vkSj i k s k d e a b l d s # i k l r j . k d k s m t k x j d j s k l f t l s l k y } k j k v i u h o f) v k S j t s e k = k m R i k n u d s f y , i p p f O r v k S j c ; D r f d ; k t k , x k A



e/; çns'k dsfofHkUu xş ou {ks=ka ds fy, ckd çtkfr dh mi ; ØYkk

ckd ukyka ds of) çn'kz ¼/kz r Åpkbz vlg dkyj 0; kl ½ij çşk.k djusdsfy, e/; çns'k dsxş ou {ks=ka ; Fkk& fl Unjyh Hkkjh ¼kgMkSy½ ektxlp ¼djuh½



?kxjh] tcyig eaxş&ou fuEuhdr {ks= ea ckd jki.k

?kxjh ¼t cyig½ I ukbMkxjh ¼y [kuMkU½ jkt x<+½ hok½ çsyhikj ,oa <kdyh ¼ juh@çsy½ nhyk [kMh ,oa I kskfi ijh ¼NmokM½ ea9 fofHkUu ckd jki.k LFkyadk p; u fd; k x; kA ¼d½enk dsnsfofHkUu tud inkFkZea fofHkUu ckd çtkfr; kadh mi ; Ørrk vlg ¼k½enk ds rhu fofHkUu tud inkFkZea M&Mks FLVDVI dsçn'kz



iokkj dsenk uewaksdfy, ykbcjh

dk v/; ; u djusdsfy, m".kdfVcalkh; ou vuq U/kku I hFkku iokk' kkyk ea nks ik= I d/kz ç; kx rş kj fd, x, A nksfofHkUu ik= I d/kz ç; kx eamxk, x, ckd iokkka ds of) vqdMs=ekf d #i lsvfhkyf [kr fd, tk jgs

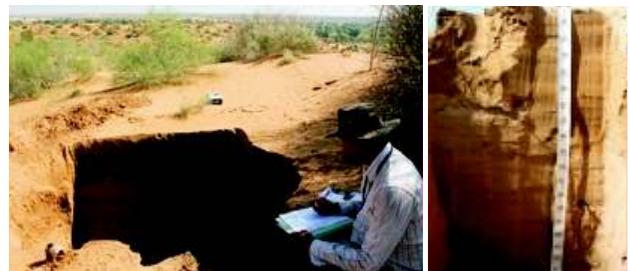
gA rhu ekg dsckd iokkadh of) c<krjh usn'kz k fd cEck k oqxfj/ dh ihyh enk ¼ksukbV½ ea vf/kdre ÅpkbzFkh tcf d 'ksh vU; ckd çtkfr; k; ; Fkk&cEck k cEck] cEck k ykxLi FkI] M&Mks dSykeI FLVDVI] cEck k VVMk] cEck k U; WUI dh dkyh ¼d kfyVd½enk eavf/kdre of) c<krjh FkA iokkij jkt; I s, df=r 29 ou mi&l ey fdLeka l s90 enk uewka dk fo'yşk.k fd; k x; kA o'kz ou vuq akku I hFkku] tkjgkV ea iokkij dsenk uewaksdfy, , d ykbcjh LFkfr dh tk jgh gA

jktLFkku dh ou enkvka dk y{k.k o.kz , oaxhdj .k

jktLFkku dh ou enkvka dk y{k.k o.kz vlg oxhdj djusdsmns; dsI kfk ; w, l -Mh, - oxhdj .k ç.kyh viukdj 89 jatk ea 170 ou CykMka ea Jh xakuxj] gukux<+>u fl dj] fcdkuj] ukxş] ckMj] fl jksh] tkyş vlg ts yej ftyka dks doj djds 210 LFkka ea enk çkQkbyka dk v/; ; u fd; k x; kA {ks= ea I kfk gh I kfk ç; kx'kkyk ea enkvka ds



çg mFkyh enk jkrki kuh] Mj j ig eamYkjh 'kcd fefJr i .kzkjh ou ¼ch@I h½ ih , p%6-32&6-45(bI h 0-06&0-09 dsm⁻¹ , I vls I h%0-27&1-26(dkcU LVRM%22-1 Mgha⁻¹



Jh xakuxj eaxgjh okrs+fu{ki ij jşxLrkuh fVcck >kMh ¼61, I 1½ ih , p%8-67(bI h%0-16 dsm⁻¹ , I vls I h%0-11&0-13(dkcU LVRM%31-9 Mgha⁻¹



H&ty {k.k o.ku fd, x, A 751 uew&ds fy, enk l jpuj l xfr] jx] ih, p-] o s r pkydrkj vx&ud dkcZ NO₃ v& NH₄ ukbV&stu v& Q&O&js l dk vkdyu fd; k x; kA &R; d enk &O&kby xM<= ds utnd 0-1 g&V& j ds {k=Qy ea ikjfl&frdh; v/; ; u ijsfd, x, A Jhx&kuxj ftysea enk, a j&xl&kuh fV&cl& v&urjV&oh; esku v& ij&ku dNkj&h esku&ads#i eaed; ; r%, v&sy; u fu{ki g&tg& l& rj dk d&Z H&h vuy&C fodkl ugha g&k g& t&s b&fV l sy dh &df& d&s n' k&rk g& enk dkcZ LV&cl vyx&vyx LFky&ea ea v&R; f/kd f&hu F&k] t&s x&M&j] &rk i x<+1/841 mg &fr g&V& j 1/2 eamPp g&ks&ds&sr&senk dh % vx&ud dkcZ , oaxg&j&Z ij fuH&j F&ka c&g& mFkyh enk xg&j&Z v& fuEu enk vx&ud dkcZ ds l k; &e'k%; &Q&f&Z k >kMh v& , uksthl l i b&M&yk >kMh ea ip d&v&k 1/2-6 mg ha⁻¹ v& dkyk H&dj 1/3-5mg ha⁻¹ 1/2 cy&M&ka ds fy, dkcZ dk c&g& fuEu LV&cl vkdfyr fd; k x; kA

d&N p; fur o{k &t&fr; ka dh t& viogu {kerk l s l &f&/kr vf&H&yk{kf. kd xq k&a ij v/; ; u

ugj {k= 1/2 b&lj&k x&f&h ugj ifj; k&t&uk 1/2 ty&O&ur {k= ea d&v&f&Ec; k v&h l hy&f&l] ; &dsy&VI de&M&ry&f&l l] ; &dsy&VI Q&f&LV&x&V& v& ; &dsy&VI #f&MI ds&n' k&u v& H&&ty {k&.krk v& enk ik&sd&ka ij buds &H&ko dk v/; ; u fd; k x; kA of) t&ek=k ok'i&R&l t&u nj v& l ex&t& viogu {kerk ds l &v&k ea&f& &t&fr; ka ea l s



b&lj&k x&f&h ugj ifj; k&t&uk 1/2 k&Z th , u i&h&ea ty&O&ur voLF&k ds r&g& fof&hu o{k iz&f&r; ka dh of)

; &dsy&VI #f&MI us l ok&ke &n' k&u fd; kA ; &dsy&VI #f&MI H&f&k.M ea H&&ty Lrj 145 l seh- 1/20 l seh- ds&f&L&f&j ty l s 125 l seh- dh xg&j&Z rd&Z rd ?&v x; kA l h- v&h l hy&f&l] ; &dsy&VI de&M&ry&f&l l v& ; &dsy&VI Q&f&LV&x&V& ea ty Lrj &e'k%90 l seh] 70 l seh- v& 60 l seh- rd ?&v&k&A enk o s r pkydrkj , l-v&s, e-] NH₄ v& NO₃-N v& PO₄-P vyx&vyx &t&f&r; ka ea dk&H f&hu F&ka PO₄-P d&s N&M&ej ; s l H&h i&sh&V&j ; &dsy&VI #f&MI ea mPp v& ; &dsy&VI Q&f&LV&x&V& ea fuEu F&ka bu &t&f&r; ka ea enk ih, p- ea d&Z [k&l fof&hu&r&k ugha&f&h x&B&

enk dk; Z&V&V&j t&rk&Z ds QyLo#i b&f&lj&k x&f&h ugj ifj; k&t&uk ea ty&O&ur {k= ea ; &dsy&VI de&M&ry&f&l l ds&H&k&j&h &df&rd i&qt&Z&u ij H&h j&kp&d &f&k. k F&k] ft l &f&k; k&sd j&ki . k y&x&us l si g&ys&f&d; k x; k F&ka i&qt&Z&ur ikni &f&k; k&sd LFky ds&f&du&j&sea&f&LF&r& e&r o{k&ad&so&k rus l s 6 l s 10 eh ds&chp vf&/k&dr&j ds&h&r F&ka ik&sd&h l &f& ; k 13 v& 36 &fr ox&Z&h {k= ds&chp F&ka H&&ty Lrj l k&si&kp l ky dh vof&k ea 25 l seh- l s 201 l seh- rd xg&j&Z ?&v x; kA j&ki r &t&f&r; ka ds&vy&ko &df&rd vu&e&.k ds#i ea H&&ty Lrj ds vil&Z&k ds l&f&k {k= ea &f& k&f&l t&ry&f&y&k&j] V&f&j&DI M&k; k&dk v& l &f&j&e ea&t&k H&h g&ks&sy&x&r&F&k H&&ty Lrj d&svf&/k& ?&v&kus&v& m&R&i&n&dr&k c<k&use&a eg&Ro i&w&Z l g; k&x& fn; kA

fu; &= .k voLF&k ; y&k&bl he&V&j ds i&f&j&r x&f& H&k&j fd&le ea fu; &= .k mip&k&j &M&CY; 1/2 ds l&f&k 50 l seh- &M&CY; 1/2 v& 100 l seh- &M&CY; 1/2 enk xg&j&Z ij ty&O&ur v& , l₁ % d&Z&Z yo.krk ugh& , l₂ % 7@12 dsm⁻¹ v& , l₃ % 12@24 dsm⁻¹ ds v&ur&x&r fof&hu ty vf&/k& k&l u , o&yo.krk ds fy, , ds'k; k fuy&k&V&dk] ; &dsy&VI de&M&ry&f&l l v& V&h , Q&k&by&k dh ok'i&R&l t&Z&h; vu&e& ; k dk v/; ; u fd; k x; kA , ds'k; k fuy&k&V&dk eamPp ok'i&R&l t&Z& nj vf&H&f&yf&[kr dh x&Z bl ds c&n ; &dsy&VI de&M&ry&f&l l v& V&h , Q&k&by&k ea j&gh&A &t&f&f&ro&j &P&k&Z&v& d&v&j ?&f&k ; &dsy&VI de&M&ry&f&l l ea dk&H mPp F&k t&f&d , ds'k; k fuy&k&V&dk ea N= of) mPp F&ka yo.krk ea of) ds l&f&k ; &dsy&VI



deYmryfUI I] Vh , Qkbyk vls , ds'k; k fuykVdk usfu; a.k dh rnyuk eaDe'k%of) ea33%, 20% vls 20% deh dksntzfd; kA tykOKur eac<krjh ds l kfk ; dsyIVI deYmryfUI I ea mPPk of) vfhkyf[kr dh xb] rFkfi , ds'k; k fuykVdk vls Vh , Qkbyk ea of) i] ketVjka ea ?kVko vfhkyf[kr fd; k x; kA

çfr o{k çfrnu ty mi; lsk tykOKur dh xgjkzvls yo.krk Lrj }kjk dkQh çHkfor FkA I keku; i kuh dsl kfk 50 I seh- enk xgjkzeatykOKur dsrgr ; dsyIVI deYmryfUI I] Vh , Qkbyk vls , ds'k; k fuykVdk usçfrnu De'k%64] 55-6] vls 30-3 yhVj ikuh dk mi; lsk fd; kA ; dsyIVI deYmryfUI I vls Vh , Qkbyk ea xj yo.kh; volFk eatykOKur eaof) dsl kfk i kuh mi; lsk eaof) n[kh xbA rFkfi , ds'k; k fuykVdk ea ty mi; lsk MCY; w rd c<k vls MCY; w mi pkj eavR; f/kd ?kVka xj yo.kh; volFk dsrgr MCY; w mi pkj ea , ds'k; k fuykVdk ea çfr nu 73-6 yhVj dk mPre ty mi; lsk vfhkyf[kr fd; k x; kA yo.krk Lrj c<kus ds l kfk nsud ty mi; lsk ea deh n[kh xb] tks ; dsyIVI deYmryfUI I ea vR; f/kd %66½ Fk] tcd Vh , Qkbyk vls , ds'k; k fuykVdk us ty mi; lsk ea De'k%57% vls 51% deh vfhkyf[kr dh xbA MCY; w , l₃ mi pkj ea ; dsyIVI deYmryfUI I ikni nsl ky dh vk; qeaLFk; h # i l s e] >kus'k# gksx, ¼ tykOKur vls yo.krk mi pkj 'k# djus ds 22 ek gkn¼ nskt çtkfr; kaus; dsyIVI deYmryfUI I dh rnyuk ea yo.krk dh vls mPp l gu'knyrk dks n'kz kA rFkfi mFkyh xgjkz ea tykOKur volFk ds rgr] ; dsyIVI deYmryfUI I us , ds'k; k fuykVdk vls Vh , Qkbyk l scgrj çn'ku fd; kA

Nk/kukxig i Bj] >kj [k.M dh fuEhd' ou enkvadsfy, çtkfr mi; rrrk vls l dkj j.kulfr us n'kz k fd >kj [k.M ds Nk/kukxig i Bj] {k=ka dh fuEhd' enk volFk dsçtkfr mi; rrrk vls b'Vre

i l sbu enkvads l dkj dh çfØ; k dh j.kulfr r\$ kj dh xbA l dkj mik; 'k# djus l sigysfuEhdj.k dh çdfr vls ek=k l sl æfU/kr dk; k vls enkvads vl; l lfer dkj dka dks /; ku eaj [k x; k gA LFkyka dso{k of) dsfy, l lfer dkj dka dks eW; kadr fd; k x; kA ykyxw ok eanckoxLr , oacat j LFkykai j i ksk'kkyk , oa {k= i jh{k.k Hk[k.Mkads fodfl r fd; k x; kA fuEhd' enkvadh l dkj j.kulfr , oac tkfr mi; rrrk ij ik= vls {k= i jh{k.k dsfy, 60 o{k çtkfr; kads i kskads mxkdj mi; lsk fd; kA of) vls tsek=k vkkMka l s Nk/kukxig i Bj] {k= dh fuEhd' enkvads rgr çtkfr mi; rrrk dk eW; kadu fd; k x; kA jksir çtkfr; kadsueh l j{k.k vls of) çn'ku dsfunkd ds #k eal dkj kadsçHko dksuew kadsfo'y sk.k vls vfre vkdMk l æg.k dsckn eW; kadr fd; k tk, xkA l Hk fu"i knuh; vkdMsfuEhd' enkvadh bu fdLeagrç i) fr; kads i sst kads fodkl dsl jy cuk, æA

2-2-5- tyl dkj çak

vjkoyh jstka ea vi okg {kfr; kads fu; a.k vls tsek=k mRi kndrk c<kusea o"kkz ty l p; u mi k; kadh {kerk , oavFKD; oLFkk

ckd okMk ftyseafuEhd' igkMh ij fofHku o"kkz ty l p; u rduhdka/dUVij [kkb; k] xMks.h] ckM l [kkz , oaoh&fMp½ vls ikni of) ij igkMh <yku] viokg {kfr dsçHko vls enk ueh Lrj dk vl; ; u fd; k x; kA <10% <yku {k= eai kni yEcsvs eks/Sks vls <ky id.krk eaof) dsl kfk ?kVusyxA , fEcydk vMOfI usyl] , st sMj DVk bMdk vls ft thQI ekf'kz kuk us<10% <ky eacgrj çn'ku fd; k] ckd vls , ds'k; k dS/pw us >20% <ky ea vls , p- bUVhfXQky; k us 10&20% <ky ea cgrj çn'ku fd; kA mi pkjka ea ; dsyIVI vMOfI usyl] , l- dñefu , - dS/pw vls , p- bUVhfXQky; k us dUVij [kkb; Hk[k.Mka eacgrj çn'ku fd; k] esykbuk vkckjh; k vls ft thQI



ekf' kZ kuk usckI [kkbZ HkFk.Mkaeacsgrj çn'kZ fd;k vksj , -, fMdk , oackd usoh&fMp HkFk.Mkaeacsgrj çn'kZ fd;kA 2009 ea viokg {kfr <10% <yku ea 12-71% vksj 10&20% <ky ea 17-61% Fkh} ; g fu; æ.k eamPpre ¼7-59%½vksj dUVij [kkbZ HkFk.MkaeafuEure FkhA PO₄-P dh {kfr >20% <ky Is mPpre Fkh fdUr q NH₄-N vksj NO₃-N dh {kfr; ka 10&20% ea mPpre FkhA

tW 2009 dh enk ty ek=k <ky vksj o'kkZ ty I p; u nksukami pkjædsdkj.k fHkUu ¼P>0-05½ughagpA rFkfi] enk ty ek=k <10% Nky eamPpre vksj

>20% <ky eafuEure FkhA mi pkjæp Åijh 0&40 I seh enk ijr ea ckI [kkbZ {kfr eamPpre vksj xMksuh HkFk.M eafuEure FkhA <40 I seh enk ijr eaenk ty ek=k <10% <ky eamPpre ¼P>0-05½Fkh vksj 10&20% <ky eafuEure FkhA tçfd xMksuh eamPpre vksj oh&fMp HkFk.M eafuEure FkhA enk vksj ty I j{k.k ds QYkLo#i 2005 Is 2009 rd 0&40 I seh enk ijr ea enk dkcZ LVktd I kFkd #i Is c<kA >20% <ky ea dkcZ LVktd eamPpre of) FkhA ; | fi egROIwZ#i Is fHkUu ughagpZ dkcZ LVktd eamPpre of) vU; o'kkZ ty I p; u I j p ukvædh vi\$kk oh&fMp HkFk.M eafkhA

2.3 आनुवंशिकी सुधार

fogaxkoyksdu

mRiknu okfudh dsegRo dksegl | djrsqg Hkjrjh; okfudh vuq akku , oaf'k{k ikj"kn~eao{k I qkij dsfy, j.kulfrd dk; Zyki ixfr ij gA , d fo'ksk iztkfr eavkuqfa'kd I qkij ykusdsfy, iKFKed fopkj miyC/k vkuqfa'kd ifjorZu'khyrk ds vk/kkj ij , d Bkl oKkfud dk; De dk fodkl vks ifjorZu'khyrk dk mi ; kx djusgrqmi ; Dr iztuu fof/k; kadk mi ; kx djuk gA i .k/kkfj; kafo'kskdj jkT; ou foHkxkq m | kska , oafdl kuka dh vko' ; drkvka dks ijk djus ds fy, vkuqfa'kd] Dyksuh; okfudh , oavkf.od tsoth ds {ks= ea ik; ksd , oavk/kkjHkur 'kksk fd; k tk jgk gA o{k I qkij dsfy, mi ; Dr j.kulfr; kadk fodkl djusvks o{k vkuqfa'kdh dsl kfk blga, dhdr djusdsfy, jkT; ou foHkxkadsdk; Zyki vge gA bl n"Vdksk eajkT; ou foHkxkads l g; kx I s iztkfr dsfgl kc I so{k I qkij dk; De ij tkj nsuk gA ifj"kn~dsl hFkku fi NysdbZ I kyka l sht mRiknu {ks= Dyksuh; cht m | ku] iKk cht m | kuka dh LFkkiuk vks mRiknd vuqf) ; ka ds p; u dsfy, Hk ; wsfyIVI] dSokfjuk , dfl ; k/ I kxksu] , yUFkl] beyh] ikWjy] MSyftZ k/ ehfy; k/ cdkufu; k yat u] Ldyhdhj k vksyhvks k/ tVksQk djd'k tsh iztkfr; ka vks , Lijxl jshel I] jkoksYQ; k I iVkbuk] I kjkdk bfUMdk] fvukt ijk dlfMQkfy; k , oa , dkj I dsyel tsh cl , oa vks/kh; iknika grq o{k I qkij dk; De dsfy, 0; kid j.kulfr; ka ij dk; Z dj jsgA

Dyksuh; okfudh dk; De ds fy, mRd"V thuz ikadscgk= xqu vks bl ds }kj mRikndr dsl qkij dstfj, o{k I qkij dk; De eaDyksuh; id/kZu vijgk; Z?kVdkaeal s, d gA bl fy, mRd"V o{kka ds p; u] Dyksuh; xqu vks Dyksuh; jki .k dh LFkkiuk foHkku o{k iztkfr; kaea'kq dh xbzgA

Ikj"kn~ ds I hFkku jki .k LVkkl I qkij] ou vkuqfa'kdh , oaDyksuh; id/kZu dh foHkku rdudhkd ds {ks= mi ; kx ij foHkku Lrjka ds jkT; ou foHkxka ds vf/kdkfj; kadk iz'k{k.k Hk nrs gA o{k I qkij , oaf tso iKk ksdh ij foHkku fo' ofo | ky; ka, oa' ksd I hFkvvka ds fo | kfkZ; ka ds fy, vyi dkyhu if'k{k.k fn; k tkrk gA

; wsfyIVI iztkfr; ka

I ksl svf/kd Dyksuka ds I 0; ofLFkr p; u vks cghFkkrud ijh{k.k ds }kj 0; kfkjd [ksh ds fy, ; wsfyIVI iztkfr; ka ds pkj mPp mRiknu Dyksuka ds tkjh fd; k x; ka mlur cht kavks okulifrd inkfZ ds mRiknu ds fy, cht m | kuka vks okulifrd xqu m | kukadh LFkki uk Hk dh xba

dSokfjuk iztkfr; ka

iEke tuu m | kuka ds chtkads I kfk vkuqfa'kd i kfr ijh{k.k. ka us jki .ka eavfrjDr dk" B ds l ak ea mRiknu ea 13 l s 28% dk I qkij n'kZ k] tks LFky volFkvka ij fullg gA 0; kfkjd [ksh ds fy, dSokfjuk ds pkj mPp Dyksuka ds tkjh fd; k x; ka dSokfjuk ydSokfjuk bfDol hfVQkfy; k x dSokfjuk > kagfu; kuk 1/2 ds var% vks vrtkzh; I d j mRiknr fd, A



iukeiYytl djy ea dSokfjuk dk , d nks o'kZ I d j I Urfr ijh{k.k



i ukei Yyhj dgy eadSokfjuk ds, d 2 l ky ds
l dj l arfr ijh{k.k ea dSokfjuk bfDol hfVQkfy; k
vls dSokfjuk >@kngfu; kuk 1/2ka 1/2dschp vartkzh;
l djkaustud iztkfr; ka 1/2ka 1/2dh vi\$kk of) , oao{k
: i rFk jks ifrjksk eai ; klr mRd"Vrk fn[kkbA

MS/cftz; k fl LI w

detkj ruk : i Wsk ruk} f} 'kk[ku]
'kk[kk'kak 'kk[ku vls lk'p{k; dsifr vfrl onu'khyrk
dh l eL; k dk l ek/kku djusdsfy, Dykukadk u; k l v/
fodfl r fd; k x; kA ik=sl jupuk fodkl {kerk dsfy,
vkuqfa'kd fofHkurk ds v/; ; u vls buds{k= in'ku
dseW; kadu dsfy, MS/cftz; k fl LI wds ikp Dykuk
; Fk& th ch MCY; j tschj , Q , DI chj , Q tM ds vls
vkj chj dksxfj.kr fd; kA Mh- ySVOkfy; k ea vrtkr
vMDI u Lrj vls viLFkkfud enykrifvk {kerk ds l kFk
bl dsl ak dk irk yxkusdsfy, Hh vud akku fd; k
x; kA

ehfy; k iztkfr; ka

vyy&vyx HkSkfyd {ks=ka ls ehfy; k
dEikftVr ds dgy 230 dSUMMS/ /ku o{kka dk p; u
fd; k x; k vls Apkz] o{kprk 0; kl] l h/ki u] l kQ
ruk Apkz] N= 0; kl , oaxkBa ij vk/kfjr rkfydk
eku ds fy, fo'y\$kk.k fd; k x; kA bl ds vykolj
gfj; k.kk] iatkc] mYkj insk vls mYkj[kM] ds N%
HkSkfyd LFkkua ea 21 l cl s mi ; Dr ifjokja ds
eW; kadu ijh{k.k LFkkfir fd, x, A ou vud akku dlnz
ifj]j] gbjckn ea ehfy; k , thMjkd vls ehfy; k
Mfc; k dk , d l arfr ijh{k.k 1/2R; sd 10 /ku o{k1/2
LFkkfir fd, x, A

i kaxfe; k fi UukVk

iatkc] mYkj[kM] mYkj insk vls gfj; k.kk
jkt; kaea i kaxfe; k fi UukVk ds jki . kadk l o{k.k fd; k
x; k vls mPp cht mRikndrk , oary ek=k dsfy,
vk'ktud thuz ika dh igpku dh xbA LFkkf; Ro]
vuphyu'khyrk , oaf) in'ku ds ijh{k.k dsfy, >ii k
1/2gfj; k.kk/2 vls iruxj 1/2mYkj[kM]1/2 ea p; fur
49 ifjokjadsl kFk {ks= ijh{k.k r\$ kj fd, x, A

VSDVksuk xSUMI

l kxka cht m|kua ea budh mi ; ksrk dks
l hfer djus okyh i q#Riknd l Qyrk l s l aB/kr
vMpukadh l e> fodfl r dh xbA xqjkr l kxka ds
Qy vls cht fo'k\$kd dh fofHkurk vls oakxfrRo dk
igyh ckj v/; ; u fd; k x; k vls ikp vPNs l kekl;
l a kst dkadh igpku dh xbA

QkbykMUL , dfl ; kt

, dF'k; k vktj dfrQkMl , oa , dF'k; k
eS/t; e ds0; ki d vkuqfa'kd l qkj dk; De 'kq fd,
x, A 0; ki d vkuqfa'kd vk/kj okyh iztuu vkcknh dh
LFkki uk dh xbZ vls l arfr ijh{k.k }kj o{k vkdkj ea
dkQh l qkj ns[kk x; kA fo|eku iztuu vkckfn; ka l s
p; u dk mi ; ks djds mbur mRifvk cht m|ku ds
fodkl grqdk; Z'kq fd; k x; kA

, yUFkl , DI Yl k

mRikndrk c<ku\$ Dykuk@thuz ika ds
mRiknu , oa fodkl ds fy, nskt iztkfr; ka ea o{k
l qkj dk; De 'kq fd, x, A rfeyukMj jktLFkkul
xqjkt] mYkj[kM] e/; insk vls vkakz insk l s
, yUFkl , DI Yl k dsfy, cht , d= fd, x, vls
Hkoh iztuu dk; De dsfy, vk/kj vkcknh ds: i ea
vkakz insk vls rfeyukMq ea rhu fofHku LFkkua ea
tuun0; l dyu fd; k x; kA

VsfjUM

nf{k.kh Hkjr ds fofHku Hkxka ea l o{k.k djds
nyk l ey{k.kh; ifjofrz kadk p; u vls l j{k.k djus
dsfy, o{k l qkj dk; De 'kq fd, x, vls fofHku
Hkxka ea 47 yky vls 30 ehBh beyh dh igpku dh xbA
yky vls ehBh beyh ds tuun0; kadk dh LFkki uk
djds beyh vkuqfa'kd l a k/kukadk l j{k.k fd; k x; kA

cpkufu; k yat u

l ey{k.kh; : i l smRd"V dSUMMS/ /ku o{kka l s
cpkufu; k yat u ds cht , d= fd, vls l arfr
ijh{k.k LFkkfir fd, x, A



ckd

- i n k k j H k j r d s f o f H k u L F k k a l s c E c h k V M M k d s 35 D y k s] c E c h k c k Y d y k d s 18] c E c h k U ; W U I d s 23] c E c h k i k f y M k d s 14 v k s M B M R d s y k e l g f e Y V k u k b z d s 23 D y k s , d = f d , v k s o " k z o u v u d a k k u l a F k k u d s c k a t u u n 0 ; c f d e a L F k k i r f d ; k A y { ; c k a i z t k f r ; k a d s p ; f u r m R d " V e k r ' x y e k a l s , d f = r d y f e y k d j 115 D y k s k a , o a 188 i z l u n k a d s t h u c f d e a l j f { k r f d ; k x ; k A
- j k t L F k k u e a n k s v k s x q j k r e a , d d y r h u L F k k a e a c E c h k c E c k d v k s M B M R d s y k e l f L V D V I d s A r d l o / k u i k n i k a d s { k = i j h { k . k L F k k i r f d , A m o j d m i p k j a d s l k f k y x H x r h u l k y c k n n g k n e a M B M R d s y k e l f L V D V I u s 16% T ; k n k u b z u k y k a d k m R i k n u f d ; k v k s c E c h k c E c k d u s 74% T ; k n k u b z u k y k a x y e k a d k m R i k n u f d ; k A
- v # f u m u f j ; k Q k Y d k V k v k s F k e u k d s y e l L i s f k y j k i 1/4 g k M h c k d 1/2 d s i k j f L F k k r d h ; e g R o , o a l k e k f t d & v k f k z d i k l a x d r k d l s / ; k u e a j [k r s g q f g e k p y i n s k d s d W y i f ' k e y k v k s f l j e k s f t y k a e a b u d h v k c k f n ; k a d h i g p k u d s f y , l o k . k f d ; k x ; k A r n u d k j t u u n 0 ; d k v f / k d l a x g . k v k s c h t m | k u k a d h L F k k i u k v k a d s f y , b u f t y k a e a 22 L F k k u k a d h i g p k u d h x b A

esykbuk vkckj h; k

I d k j d k ; D e k a d s f y , v k / k j H k u l p u k l f r d j u s d s f y , e s y k b u k v k c k j h ; k d h i q # R i k n d t s o d h d k v / ; ; u f d ; k x ; k A o " k z o u v u d a k k u l a F k k u u s i n k k j j k t ; k a v k s i f ' p e c a k y d s f o f H k u m n x e l F k y k a l s p ; f u r e s y k b u k v k c k j h ; k d s 119 m R d " V D y k s k a d k l a x g f d ; k A

Vsdksyk v. MgykVv

fcdkuj vks tkckij eafI rEcj 2008 dsnkjku 40 dSMMs/ /ku o{kkaadsl kFk , d l arfr ijh{k.k LFkfir fd; k x; kA pksVu 1/2ckMej 1/2 l sl arfr ustckij eavks

ekgux<+1/4\$ yej 1/2 l sl arfr usfcdkuj eavPNk of) in'ku fd; kA

, st \$Mj DVk bafMdk

xksolnigkj t; ig ea mPp , t \$Mj DVu dks y{; djds LFkfir 7 l ky dsuhe l arfr ijh{k.k ds ew; kadu usmn?kkVr fd; k fd xr nks l kykadsnkjku eq; r%ikysdsdkj.k dN l arfr; kaecgqr de nj ij cht LFkfi uk gba

l hM q n onkj k

ipkl gDVs j cht LVSMka dh x.kuk djds nonkj dscht mRiknu {k=kavks vare : i l sp; fur LVSMka dh vkalyu l fip; ka r\$ kj dh xbz vks N/kbz vuqfr itr djus grqjkt; ou foHkxka dks iLr f d ; k A

vkSk/kh; i kni

- , L i j x l j l h e k d l d s c h l c h t l k a d s f y , p k j l c l s e g R o i w k z f o ' k s k d a d s r k f y d k e k u d s v k / k j i j N % l k s ; F k k & i r u x j 1/4 n Y k j k [k . M 1/2 t k k i g 1/2 k t L F k k u 1/2 n s j k n w 1/4 n Y k j k [k . M 1/2 p . M h x < + 1/4 a t k c 1/2 t e e w 1/4 t e e w o d ' e h j 1/2 v k s l k s y u 1/2 g e k p y i n s k 1/2 n s j k n w 1/4 n Y k j k [k . M 1/2 e a t M - m R i k n u g r q v k ' k t t u d i k , x , A
- m Y k j k [k . M] f g e k p y i n s k l t e e w o d ' e h j d k i f r f u f / k R o d j u s o k y s , d k j l d s y e l d h i p k l v k c k f n ; k a d h t k p e a l s f u E u - A l j k s u e k = k / k j . k d j u s o k y s i k p l k a d h i g p k u d h x b A
- M B M R d s y k e l c k f u m l h v k s M B M R d s y k e l , L i j d s i d / k u d s f y , r F k d w z f t y k l d u k l / d e a b u n k s i z t k f r ; k a d h [k r h d k s i k l l k f g r d j u s d s f y , o k f u d h e g k f o | k y ;] i k l u k e i s / e a , d o k u l i f r d i d / k u d b n z L F k k i r f d ; k x ; k A
- , d v f r l o n u ' k h y v k S k / k h ; i k n i i z t k f r l k j k d k b a f M d k e a i k n f i d k v k a d s i k = s i q t z u u v k s b u d h v k u p a ' k d l R ; r k u s 2 & 3 l k y d s



iknika ea xjeh dsek e ea l gk; d dfy; ka dk
vf/kdre 35-2% vadj .k n'kz; ka

- i ztuu dk; Øekadsfy, vkf. od y{k. k o. kzk
• viLFkfdud ewk&ifYk fo'kSkdka dks y{; djds
I Ec) ekufp=.k vkcknh eavkuofa'kd I jupuk dk
eW; kadu djus ds fy, ; wdfy/VI
VjfvdkMLU7 gsrq I k/kj.k vuøe iqjkoFYk
vadkadk fodkl fd; k x; ka
- vkuofa'kd fofu/krk vkdyu vls 10 DyksikaLV
ekbØkd SsykbV (CPSSR) vadka ds I kfk
I hM7 nonjkk dh vkb vkckfn; kadscip I cak
dh x. kuk dh xba
- dSokfjuk ea yo.k ncko I gu'khyrk ds
vkuofa'kd fu/kkj dka dh igpku djus gsrq
vR; f/kd yo.k I gu'khyrk , oal onh voLFkqvka
ds fy, 82 dSokfjuk bfDol hfVQksy; k
Dyksikadh tko dh xba
- vkj-, -ihMh- vadka dk mi; lsk djds
, d I kS ipkl Dyksika dks ikQkVM fd; ka
dSokfjuk bfDol hfVQksy; k ds
vkbZ, I -, I -vkj- ih I h-vkj- I spkj , I -, I -vkj-
y{; ikbej fodfl r fd, x, A
- dSokfjuk bfDol hfVQksy; k ds Dyksika dks
muds gksyk S; nykst , oafyfxuu ek=k ds fy,
eW; kad r fd; k x; k; tks Dyksika ea Øe'k%75 I s
80% vls 24 I s 54% rd Fkka dk"B fudVLFk
jkl k; fud fo'ySk.k ¼% jk[k] , -ch- fu LI kjd]
ty foyS rk] NaOH foyS rk½ vls I h- I h-vkj-
, Utkebe I fØ; rk eW; kad r dh xba I fj. kkekaus
Dyksika eal afr fofhkurk dksn'kz; ka
- dSokfjuk bfDol hfVQksy; k Dyksika ea ckjg
vkb I kS Utkebe ¼-, -Vh-] , -Mh-, p-] bZ, I -Vh-]
ih-ih-vk-] ih-vksMh-] th-Mh-, p-] vkbZMh-, p-]
, I -vksMh-] , e-Mh-, p-] , e-bZ] , y-Mh-, p-]
th 6 ih-Mh-, p-½ dksbLVrehdr fd; k x; ka I ko
I q i"V fyak fo'kSk, Utkebe ¼-, -Vh-] vkbZMh-, p-]
, -Mh-, p-], Yk-Mh-] ih-vksMh-½ ds fy, 24 uj vls
23 eknk Dyksika I s dSokfjuk ; qk I fip; ka dh

tko dh xba fyak iFkDdj.k ea ijvkd I hM7
ikQkbykadkscgr Li"V ik; k x; ka

- rhu egRo iwkZ ckd iztkfr; ko ; Fkk&cEcH k
ckYdovk] cEcH k VVMk vls cEcH k U; wUI]
dh 125 vuof) ; kadk vkf. od y{k. k o. kZu fd; k
x; ka
 - nl vkj-, -ihMh- ikbejka dk mi; lsk djds
tVQk djd'k ds 28 Dyksikadk vkf. od y{k. k
o. kZu fd; k x; ka
- thu i FkDdj.k vls dk; kRed fo'ySk.k
- Xykbdk kbM gkbMhsyst Qfeyh ds I kfk
289 vfeuks, fl M ds ikhu dk budkVMak djds
867 bp ds vks vkj , Q vdkkj] 240 bp ds
3* ; wVh vkj vls 293 bp ds 5* ; wVh vkj ds I kfk
1-4 kb ds vuøfur vdkj ds I kfk Dyk I
fpfVust thu dh igpku dh xba 19 fpfVust
i kko&{k= dk y{k. k o. kZu fd; k x; ka
 - ; wdfy/VI VjfvdkMLU7 I sl Snykst I hufkst
dh N% Jk.k; ka dk ifrfuf/kRo djus okys
N% i frfyfi dk y{k. k o. kZu fd; k x; ka
 - yo.k I gu'khyrk ea 'kfeY thuka ds Rofjr
dk; kRed fo'ySk.k gsrq VUI tfud jkfeY tMads
I kfk ; wdfy/VI VjfvdkMLU7 deikstV iknileds
fodkl dsfy, vge i jkehVj kadh igpku dh xba
- I we , oag n i o/kZu
- , xy ekehykd dksde djus dsfy, iztkfr; ka
gsrq dks'kdk I o/kZu i kS/kdkly fodfl r fd; k x; k
vls jsk tudka ds fo:) I o/kZu ea mRikfnr
p; ki p; kadh {kerk dk i jh{k. k fd; k x; ka
 - I we , oay?kadye rduhd ds }kjk p; fur mPp
mRiknu ; wdfy/VI Dyksikadh tM&{kerk vls
jki .k LVkM mRiknu dh of) gkfl y dh xba
y?kadye rduhd dk mi; lsk djds 13 Dyksika
dh ewk&ifYk i fr'krk c<kbZ xba
 - , fDoyfj; k esyk hfUI I ea ik=s vls ij ik=s
rduhdka ds }kjk okuLifrd i o/kZu i kS/kdkly
fodfl r fd; k x; ka



- fMIVhjkcdki / jhVh / ea okuLifrd id/kū i kskcdkly dksekudhđr fd ; k x ; kA
- tVtQk djd'k vks dkMleQskj fo?kVh dsik=s id/kū dsfy, vk/kjHkr i kskcdkly dk fodkl fd ; k x ; kA
- Ård l ođ/kz vks dye l smxk, i knikankskadk mi ; kx djds MhMkdsykel gfeYVkuabz ds in'kū Hk[k.M 1/0 gdV s/2LFKfir fd , A
- lkf'pe cakyl >kj [kū vks mMh k rhu jkt ; kadk i frfuf/kRo djusokysnšk ds i nhzHkx eayk [k dk mRiknu djus okys l Ei wZ {k= l s 'kijh ; k ds 30 mRd"V o{kadk p ; u djusdsfy, xgu [kst dh xbA ruk dye dsvykok] x/h cakuk vks edyū iz kx tš h vl ; ogn id/kū fof/k ; ka dh xbA bu fof/k ; ka }kjk 50% l svf/kd ewyRi fYk n[h xbA Dyksūh ; fo'ol uh ; rk dh t k p djusds mnas ; ds l kfk Dyksūka dh fd'kij i fYk ; ka l s Mh , u , - fu"d"lk k fof/k dksekudhđr fd ; k x ; kA

fo"k ; oLrq ds rgr i fj ; kst uk , a

lkfj ; kst uk	ok"z ds nks ku i ij h dh xbz i fj ; kst uk , a	tkjh i fj ; kst uk , a	o"z ds nks ku 'kq dh xbz ubz i fj ; kst uk , a
lyku	17	39	19
okkj l s l gk ; rk i ktr	14	10	09
; kx	31	49	28

2-3-2- ou vkupf'kdh l d k/kuka dk l j {k.k

lkbul jkd l c?kkbz

foud h ; k ifjokj l s l ođ/kz , d l nkgfjr 'kadp{k iztkr ikbul jkd l c?kkbz l xl viuscgēw ; izdk"B vks vks/hvjs tu dsfy, tkh tkrh gā pM-H s i ktr vks/hvjs tu Hkjr ds mYkj h fgekpy {k= dsfy, jktLo dk , d egROI wZ l kx gā mxusokys {k= eajst u mRiknu dsfy, ikbul jkd l c?kkbz iztkr ds Hkrj dkOh vkupf'kdh fofHkr ekst m gā of) vks fodkl

dh ikjHkd voLFkvvka ea mPp jst u mRiknd dh igpu djuk dfBu gā mPp jst u mRiknu ds l kfk Mh , u , - ekd j l aak dk y {k.k o.kū djusvks LFKfir djusdsfy, vkj , -ihMh vks vkbz, l -, l -vkj- vaddka dk mi ; kx djds mYkj k [kū] fgekpy insk vks tEew l ikbul jkd l c?kkbz ds dty 73 thu&iz ikal mPp , oa fuEu jst u mRiknd 1/2 dk y {k.k o.kū fd ; k x ; kA ikly/hkfQZl ykd h dh l j ; k 120 Fkh 182-76% 1A fo'yf'kr thu iz ikadsfy, dy thu fofokrk 0-289 Fkh vks 'ksukū dh l pūk rkfydk 0-431 FkhA vkcknh ds Hkrj thu fofokrk vks vkckn ; ka ds chp dy vkuof'kd fofokrk dk vuqkr Øe'k%0-273 vks 0-053 FkhA rhu vkj , ih Mh ykd h 1/4 e&186&48] , e&186&49 vks vksih , -&6&76 1/2 vks , d vkbz, l -, l -vkj ykd l 1/4 vkbz, l -, l -vkj -&7&108 1/2 us jst u mRiknu ds l kfk egROI wZ l aak dsn'kz ka ft l ea l s vksih , &6&76 mPp jst u mRiknd dsfy, mPp i kflr 180-64% 1/2 ea Fkh 1/2 vks gky fu"d"lk k fof/k dk mi ; kx djds jst u mRiknu 2-5 fd-xk- i fr l ky l smPp 1/2 vks fuEu jst u mRiknd ka efuEu 188-09% 1/2 i kflr 1/4 fd-xk- i fr o"l l s Øe 1/2 FkhA i fj . kkaus mPp jst u mRiknu graq vkf.od vaddkadsfodkl dsfy, bu ykd h ds mi ; kx dh l Hkkok dsn'kz ka

l hM 1 nonkj k

l hM 1 nonkj k nonkj 1/2 ft l shkjr h ; l hMkj ds : i eaHh tkuk tkrk gā Hkjr h ; 'kadp{k ka ea l cl s egROI wZ gā ; | fi iztkr dh bl ds izdk"B dsfy, vR ; f/kd ekx gā 'krkfcn ; ka l sbl dk vfr nksu gksjgk gā ikdfrd nonkj dsou u ddy ekuoh ; i Hko ds dkj.k cfYd ifjorū 'khy ekš eh ; voLFkvvkadsdkj.k Hh vR ; f/kd nco ea gā fgekpy ; u nonkj ouka dh vkuof'kd fofokrk vks vkcknh l j pūk dk v/ ; ; u ds Mh , u , - ekd j vk/kfjr v/ ; ; u ds fy, tEew o d'ehj] fgekpy insk vks mYkj k [kū] dks doj djds i R ; d 50 , dy o{kad l kfk chl vkckn ; ka ds uemus fy, x, A Mh , u , - fu"d"lk k vks , l -, l -vkj-



Ekukyh ds nōnkj oukæaeuēuk l æg.k dsfy, p; fur o{k

fQæjfi ÆVx rduhdka dks ekudhd'r fd;k x; kA i klyhekfoZd , l-, l-vkj- ekdZl Z dh tlp dh xbZ vlsj iR; d 10 CP , l-, l-vkj- ekdZl Z ds l kfk dgy 8 vkckfn; ka dh fQæjfi ÆVx dh xbZ vlsj vkuoæ'kd fofokrk vkdyu dk ifjdyu fd;k x; kA vkb vkckfn; ka ds chp vkuoæ'kd l æk Hh LFkfr fd;k x; kA vlu; vkckfn; kadh fQæjfi ÆVx izfr ij gA

l hM? nōnkj ds cht mRiknu {k= dh LFkki uk vlsj l arfr ij h{k.k r\$ kj djus ds mnæ; ds l kfk vāre : i l sp; fur vlsj x.kuk fd, x, 50 gSVs j cht LVSM kadh ekfdæ l p h jkT; ou fohkx dks i Z r q dh xbZ r kfd l {ke i kf/kdkjh l sNv/kbZ dh vuæfr i klr dh tk l dæ tuojh 2007 ds nks ku i ksk' kkyk ea l arfr ij h{k.k vlsj bl dsckn vxLr 2007 ds nks ku , d Nv/kbZ ds l kfk i ksk' kkyk eabu l arfr; kadh i ksk.k fd; k x; kA bl izdkj mxkbZ vlsj i ksk'kr dh xbZ l arfr; ka dks vxLr 2009 ds nks ku ; knfPN dh d'r Cykkl vfhkdYi dk mi ; kx djds {k= eajks i r fd; k x; k vlsj l e; & l e; ij of) vkpMsvfHkfyf[kr fd, A



nōnkj dk cht mRiknu {k=

, Lijxl j d hekl l

Ou vuq ækku l h.Fkkj nsjknw 1/4nYkj k[kM1/2 ea , Lijxl j d hekl l ds 20 cht l kskæ dk , d {k= ij h{k.k LFkfr fd; k x; k r kfd fofHku v k f k Z fo'kSkdkæ dsvk/kkj ij buds in'kZu dk eW; kædu fd; k tk l dæ ij ksj l æf/kr fo'kSkdkæ eajksj ÅpkbZ vlsj tM+ l æf/kr fo'kSkdkæ eaj tM+y EckbZ eavf/kdre thuiz i kæ vlsj l ey{k.kh fofHkurk n[kh xbZ ij ksj l æf/kr fo'kSkdkæ eajksj ÅpkbZ vlsj tM+l æf/kr fo'kSkdkæ eaj tM+y EckbZ ds fy, vf/kdre vkuoæ'kd mlufv vlsj vkuoæ'kd ykHk i klr fd; k x; kA rkydk ekukæ dsvk/kkj ij N% l ksk ; Fkk& i aruxj 1/4nYkj k[kM1/2 t ksk i g 1/2 kt LFkku 1/2 nsjknw 1/4nYkj k[kM1/2 p. Mhx <+ 1/4 at k c 1/2 t Eew/æ Eewo d'ehj 1/2 vlsj l ksyu 1/4 gekpy in sk 1/2 tM+ mRiknu ds fy, vk'ktud cht l ksk ik, x, A

, dksj l dSykel

, dksj l dSykel , d egroi wkZ vksv/kh; vlsj l j f hkr i kni g\$ ft l dk mi ; kx ; wkuh vlsj vk; oænd LokLF; iz k f y; ka dh nokvka ea glrk gA vkdkj fevr fo'kSkdkæ vlsj Mh-, u-, u- ekdZl ka 1/4kj-, -ih-, -Mh- , oa Dykjs ksykLV ekbØkd S/sykbV 1/2 ds }kjk Hkjr ea bl dh i klr ds fofHku HkSksy d {k= ka l s, dksj l dSykel dh i pkl vkckfn; ka dh vkuoæ'kd fofokrk vlsj vkcknh l j p uk dk v/; ; u fd; k x; kA -A l j ksu ek=k ds fy, , df=r l kskæ dk eW; kædu Hh fd; k x; kA muds izdlh



eaFuEu -A I jks ek=k okys ikp I kradh igpku dh xba

jkokfYO; k I iVvkbuk , oa fVukLi kjk dkmMQkfy; k

thu iw dk foLrr vk/kj miyUk djkus ds fy, nsk Hkj ea 39 LFkkua Is jkokfYO; k I iVvkbuk vls fVukLi kjk dkmMQkfy; k ds tuun0; ,d= fd,A fofHku id/kz rduhdka dk fodkl djds tuun0; dks iks'kr vls I id/kz fd; k tk jgk gA jk; x<+ 1/4VYhl x<1/4 pntij 1/2egkj'V%2vls tcyij 1/2; insk1/2 eacgh.Fkkfud ijh{k.k LFkkfir fd, vls i; kr fofHkrk dk irk yxk; kA of) in'ku vfhkfyf[kr fd; k vls I f0; rRo ek=lvkadsfy, tM+uenukads, df=r ,oa ijhf[kr fd; k vls Mh; w, l - y{k.kkadsvk/kj ij I cl s vk'ktud thuz ikard igpusdsfy, blgafpgfur fd; kA

Vjksdki 7 ekl 7i ; e

rfeyukMqvls djy ea Vjksdki 7 ekl 7i ; e dh vkckfn; ka ds Hkrj vls buds chp vkdfjdh; fofHkurkva dks Jskdr fd; kA if'peh ?kkvka ds idh vls if'peh vofLFkr; ka ea 0e'k%14 vls 17 vkckfn; ka dks Nk/k x; kA if'peh ?kkvka ds idh vofLFkr 1/4rfeyukMq ea k= I o{k.k fd; k vls 579 ifrfuf/k o{kka dks Vx fd; k vls buds vkdfjdh; ,oa __rqt sodh; i; ketVjka dks izy[kr fd; kA igpkus x, o{kka Is 214 gjcsj; e uems, d= fd, A if'peh ?kkvka/djy 1/2ds if'peh vofLFkr ea Nk/sx, LFkyal s219 o{kka dks Vx fd; k vls buds vkdfjdh; ,oa __rqt sodh; i; ketVjka dks izy[kr fd; k rFk 115 gjcsj; e uems Hh ,d= fd, A

cmkw jk iztkfr; ka

__rqt sodh] iknih t sodh] ijx.k dksfeykdj dPN ouLifr; ka ds iq#Riknu ij vl; ; u fd; k vls vkj-bZ/h iztkfr; ka cmkw jk I hfyfUMdk] ch- thEukjkb tk vls ch- I DI xgyk ea iq#Riknd

I Qyrk gfl y dh xba idh vls if'pe rVka ea 6 LFkkua foLrr vl; ; u fd, x, A if'peh rV eadly ea dluuj vls bjukdye ftykadk I o{k.k fd; k x; k vls ik; k x; k fd if'peh rV ea ch- I hfyfUMdk] ea vls y&ebz ds nks ku Qy vk, tcd if'peh rV ea vDVvj&uoEj ds nks ku Qy vk, A I ucMZ vls dhv nks kausch- thEukjkb tk dks i jkfxr fd; kA dhvka }kj i jkfxr ch- I hfyfUMdk] us mPre iq#Riknd I Qyrk n'kkba ch- I DI xgyk dks [kkyh I ucMZ }kj i jkfxr fd; k x; k vls bl ea fuEure iq#Riknd I Qyrk fn [kkba



cmkw jk thEukjkb tk ea i{h }kj ijx.k

panuk 1/4 sVsy, Yce , y-1/2

o"l2006&09 ds nks ku pnu dk"B ds 1-3 yk[k i kskadk mRiknu fd; k x; k vls I Ei wZ Hkjr ea jkT; ou fofHkurk fdl kuk pnu vk/kfjr m|kska vls xj I jdkjh I xBuka eaforfjr fd; kA duk/d eaf'kelsk ftyka ea vls eqz oj] dkykj ea pkskh pnu i.k/kjh cBd dk; 0e fd; k x; kA ea-ky; 1/4kalk insk1/2 chosugYyh eqmsugYyh vls fpdexyij 1/4duk/d 1/2 ea I nu vk/kfjr df"kokfudh ds nks vku&QkeZ in'ku ijh{k.k LFkkfir fd, x, A

Dyky kDI hyklu LohVhf; k

Dyky kDI hyklu LohVhf; k ,d egRo iwZ iztkfr gS tks vfrl onu'khy Jskh ea vkrh gS tS k vkbZ; w h, u- }kj I fpr fd; k x; k gA bl iztkfr dk iq#tzu Lrj izy[kr fd; kA rhu cht LVSMkavls rhu dSUMMS/ /ku o{kka dh igpku dh xba



dSufj ; e fLVDe vKj ghMukdki 7 i SVVMR
 dSufj ; e fLVDe vKj ghMukdki 7 i SVVMR
 dso{Kkadh igpku dh xbvKj vkortz_rqfodh i fK. kka
 dsfy, vdr fd; kA nksukgh iztkfr; kafNrjkbZgpbZi kbZ
 xbvCgr de iztkfr; kaeaQy vk, A Qykd i fji Dou
 fHku&fHku le; ij gsrk gA ghMukdki 7 i SVVMR
 vKj dSufj ; e fLVDe nksuka iztkfr; ka ea ikdfid
 i qtzU cgr vYi I fpr fd; k x; k gA ; | fi vdgj.k
 vPNk ik; k x; kj pkj ekg ea i kKkadh {ks= mYkj ttfork
 5% I sde FkA

cka

- vle 1/2 LFkyk fetkje 1/2 LFkyk ukxky 1/4 LFky 1/2 vKj f=i jk 1/4 LFky 1/2 ea6 p; fur LFkyka ea cEct k VMK cEct k cYdqk cEct k U; WUI cEct k ikfyMk vKj MBMcdSykeI gfeYVksukbz ds iztkfr ,oa Dyksu; eW; kdu ijh{k.k LFkfr fd, A fofHku iokkij jkT; ka ea I Hh 6 LFkyka ea LFkfr iztkfr ,oa Dyksu; ijh{k.k jki .kadh mYkj ttfork of) vKj fu"iknu dk vuoh{k.k fd; k x; kA ebZ 2009 rd vfhfryf[kr i fK. kkvKj vkpMkds vud kj cEct k cYdqk vKj cEct k U; WUI us mPre mYkj ttfork fn[kk] bl ds ckn MBMcdSykeI gfeYVksukbz vKj cEct k VMK ea jghA cEct k U; WUI dh ApkbZ 1/4 66-5 I seh-1/2 vU; ka I smPp vfhfryf[kr dh xb] bl ds ckn cEct k cYdqk 1/4 47-5 I seh-1/2 cEct k VMK 1/4 45-7 I seh-1/2 vKj MBMcdSykeI gfeYVksukbz 1/4 26-9 I seh-1/2 jgA u, ijkska dh dty of) MBMcdSykeI gfeYVksukbz ea mPp vfhfryf[kr dh xb] bl ds ckn cEct k U; WUI cEct k VMK vKj cEct k cYdqk ea jghA dke: i eA cEct k cYdqk us I Hh of) i jkehVjka ea I rksktud in'kz fd; k vKj Dyksu ua 11 1/4 h&11 1/2 us cgrj ij .kka n'kz, kA tkyndh ea cEct k U; WUI us vPNk in'kz fd; k vKj Dyksu ua 9 1/4 h&9 1/2 cgrj ik; k x; kA rfy; kejk eA cEct k U; WUI us

vPNk in'kz fd; k vKj Dyksu ua 11 1/4 h&11 1/2
 vPNk ik; k x; k bl ds Dyksu 10 1/4 h&10 1/2 jgA
 vkbtky] dkykfc vKj gsykdMh ea cEct k U; WUI cgrj fu"iknd iztkfr ikbz xBA
 I keku; r%f=i jk 1/4 rfy; kejk vKj i'pe dke: i 1/4 l e 1/2 ea ijh{k.k jki .k dk in'kz I okke gS
 vkbtky vKj ojhacVs ea I k/kj.k FkA ukxky 1/4 tkyndh vKj gsykdMh ea of) i jkehVjka us cgrj
 detkj in'kz n'kz, kA rfy; kejk ea cEct k U; WUI us I cl svkst i wZof) gkfy dhA I Hh
 iztkfr; ka ea cEct k U; WUI dh mYkj ttfork
 mPre ikbz xBA

- fofHku mxelFkyka Is ,df=r ehykdsuk cfl Qjk dscht kaij vdgj.k ijh{k.k fd; k x; kj tks42 I s95% rd FkA vxjryk vKj /keZuxj 1/4=i jk 1/2 I scht us mPre vdgj.k fn[kk; kj tcfid dksgek 1/4 ukxky 1/2 I s, df=r chtka ea fuEure vdgj.k vfhfryf[kr fd; k x; kA
- o"KZou vud akku I hFku ifj I j ea LFkbbZHw[ka/ka ea fHku&fHku le; ij gsrk ikys i ti .k dsfy, ehykdsuk cfl Qjk dh ijh{k.k jki .k LFkfr fd, x, A ; s jki .k pkj i ti .k o"KZ; Fk&2001] 2003] 2007 ,oa 2008 dscht ka I smxk, x, i kKka dksfeykdj gA pkj fofHku o"Kkaea, df=r chtka I s mxk, jki .k ds I Hh Cykka ea 100% mYkj ttfork vfhfryf[kr dh xBA jki .kka ea o"KZ 2001 vKj 2003 i ti .k I s, df=r chtka I smxk, i kKkausT; knk vkst i wZof) dksn'kz, kA
- cgep= xqku dsfy, vkuoA'kd : i I snijLFk vuof) ; kds p; u] vkuoA'kd fofokrk c<kusgrq u, thu iz ika dk I dtyu] N/kbz ds fy, f}rh; d vuof) ; ka dh igpku tsh izdku j.kulfr; ka I s I a/kr I pouk I ftr djus vKj vuof) fof'kV vKj-, i-hMh- fQajfi MVI] ftudk mlk; kx jki .k LVkkl i ek.khdj.k mnaS; dsfy, fd; k tk I drk gS dks I ftr djus ds fy, Hh ekd] i kS kx dh }jkj cka



1/2 Ect k cYd... cEct k VVMk vSj cEct k U; WUI 1/2 tuun0; cEd eal dfyr vuof); kads eW; kadu dsfy, v/; ; u fd, x,]; |fi v/; ; u tkjh gS i q#Riknuh; rk ijh{k.k vSj ikbej tlp dk; Z ds fy, 70 ckd vuof); k ds thuksed Mh-, u-, - fu"df"kr fd; kA

- I=g jkT; ka ls MBMRcdSykel fLVdVI ds tuun0; I xg.k fd; k x; kA fdl kuka vSj ou vf/kdkfj; kads l e{k in'ku dsfy, ckd iztkfr; ka ij fofHku iSj kSxf; ka fodflr dh xBA Dyksuh; iSk'kkyk] l hvh l BVj] ou vuq ddku l hFku] nsjknw eaDyksuh; inkFkfodfl r fd; k x; k vSj N% jkT; ka ; Fk&gfj; k.k] mYkj inskj i atkc] mYkj k [kM] p.Mhx<+vSj fnYyh eaforj.k fd; kA Hkjr dsl Hkh Hkxka l sigkVh- ckd dsfy, tuun0; I xg.k Hkh fd; k x; kA
- fgekpy insk jkT; eamx jgsigkVh- ckd ; Fk& , - QYdkVv vSj Vh- Li kSFK?/ykg] dh nks egRo i wkZ iztkfr; ka dk l h{klr ys[kk rS kj@l dfyr fd; k x; kA 22 LFkkuka l s tuun0; , d= fd, vSj cMlxka] f'keyk fgYI eafj l pZLVskul fgeky; u ou vuq ddku l hFku ea vSj cglU/kj] eukyh dsutnd] dWYw?kkVh] fgekpy insk ea LFkfir fd; k x; kA
- if'pe cakya ds iWZ , oa if'pe fenukij ea MBMRcdSykel fLVdVI] cEct k cEckl vSj cEct k VVMk ea tuun0; dk l o{k.k] igpkul I xg.k vSj ifjj{k.k fd; k x; kA

ekfj xk vkfyQsjk

>kj [kM] if'pe cakya] fcgkj vSj mMh k ea mRd"V cht l kka dh igpku dh xbz vSj 15 dSUMMS/ /ku o{kadkspgfr fd; kA igpku fd, x, dSUMMS/ /ku o{kadkspgfr fd; kA I s dye , d= dh xbz vSj Dyksuh; : i l sxq.kr fd; kA xje eS e eavNDI u , oa xS&vNDI u of) fu; a-dka dks ykxw djds ijksj dyeajksi r dh xBA

vSsk/kh; i kni kadk l j {k.k

nkftZyax igkM+ kavSj QW fgYI dk l o{k.k fd; k rFk vSsk/kh; iknika dh 6 iztkfr; k ; Fk& jkoksYQ; k l i BVkbu] foFkfu; k l kSEUQj k] LVhfo; k jhctM; kuk] , i j s x l j s hekd l] thEuhek l hYohLVh vSj , cksyekt pwekV ds/ l ds tuun0; , d= fd, x, A

2-3-3- o{k l qkkj

MSYcftZ k fl LI w

Ou vuq ddku l hFku] nsjknw 1990 l s MSYcftZ k fl LI w ds vkupf'kd l qkkj dk; De ij dk; Zdj jgk gA ; |fi bl iztkfr eavusdkav'ktud xqk gS bl usdetkj ruk : i W/s-k ruk? f}'kk[ku] 'kk[k'kax 'kk[ku rFk l k'p{k; dsifr l onu'khyrk dk in'ku fd; kA iztkfr ds vkupf'kd l qkkj dk; De ea fofHku LFkkuka l svuska/ku o{kka dk p; u fd; k vSj thu@Dyksu cEd ea , d= fd; k x; kA ikjHk ea vfoHkfr mYkj inskj jkT LFkku] fcgkj] usky rFk vU; 'kh'ke mxs{k=kaevk'ktud o{kadk p; u fd; k x; kA bu thu iz ika ds vkupf'kd egRo dks {k= ea ijh{kfr fd; k tk jgk gA ySVI vfHkdyi viukdj fcFkeMk 1/2 gfj; k.kk? i ruxj 1/2 mYkj k [kM] 1/2 vSj gkS'k; k j i g 1/4 atkc 1/2 ea i R; d rhu LFkkuka ea 49 Dyksuka dks feykj {k= ijh{k.k LFkfir fd, x, A fofHku vkdkjefr , oa dk"B fo'kSkdka ij l kj.lh ds vuq kj gkS'k; k j i g] yq/k; kuk vSj fcFkeMk ea jksi r 36 Dyksuka dks feykj iWZ ijh{k.kka ds eW; kadu dks eW; kad r fd; k x; kA dk"B uews, d= fd, vSj 'kkjhjdh; , oa dk"B xqkadsfy, ijh{k.k fd; k tk jgk gA

xqjkr ea MSYcftZ k fl LI w Dyksuka ds cglFkfrud 1/4 LFku 1/2 Dyksuh; ijh{k.k Hkh LFkfir fd, x, A l Hkh LFkkuka ea vf/kdkk of) fo'kSkdka ds fy, Dyksukadschp egRo i wkZ fofHkur nS[kh xBA



खेत में एक नर्सरी में एक ही तरह के पेड़ों की रोपण, जिसके लिए

of) in'ku ij p; fur Dyksuka dk ncko ifrjksk vls ukf'kdHV ifrjksk dsfy, v/; ; u fd; k x; kA ikp LFKk; h , Ut kbe iz kfy; ka ; Fkk&, e-Mh-, p-] 6 ih-t-h-Mh-, p-] vkbZMh-, p-] , l-dsMh-, p- vls , e-, u-vkj-] ds l kfk vkb l kst kbe rdudhka dk mi ; kx djds vkuo'ka' kd fofHkurk dk v/; ; u fd; k x; kA ty {kerk dsfy, bu 16 p; fur Dyksukadsncko ifrjksk dk v/; ; u fd; k x; kA {ks= ea ukf'kdHV ifrjksk dh tkp djus dsfy, iz kx Hh r\$ kj fd, x, vls iz kx'kkyk ea igpkus x, fu"i=dka dk v/; ; u fd; k x; kA bu p; fur Dyksuka dks vxLr 2009 ds nlsku tEew , oa d'ehj jkT; ea cl rjcsyk ea vls fgeky in\$ ea Tokyk th {ks= eajk\$ r fd; k x; kA

ehfy; k

ehfy; k dEi k\$ t Vt ds ikdfrd oukavls jk\$.ka dk l o\$ k. k fd; k x; kA fofHku Hk\$ kfyd {ks=ka l s 230 d\$UMMS/ /ku o{ka dk p; u fd; k x; k vls \$pkbZ o{ka prk 0; kl] l h/kiu] l kQ rUk \$pkbZ N= 0; kl vls xk\$ka ij v/ k\$ jr rkydk eku dsfy, fo'y\$.k fd; k x; kA d\$UMMS/ /ku o{ka dsfy, vls r rkydk eku 44-39 ifjdfyr fd; k x; kA rFkf i] 75 % 8 o{ka l svf/kd ds rkydk eku ds l kfk o{ka dks 81-81 ds vls r rkydk eku ds l kfk /ku o{ka ds: i eal e> k x; k g\$ t ksd\$UMMS/ /ku o{ka 82% dk l k\$ g\$ bl ds vykokl g\$ j; k. k\$ i atk] m\$ kj in\$ k vls m\$ kj k [k\$ l ds N% Hk\$ kfyd LFKkua ea l kr ifrdfr; k vls ifr ifrdfr 4 i kni kads, d ifjokj ds l kfk y\$ v l vfhkdyi ykxwdj ds 21 l cl smi ; D r ifjokj kads e\$; ka l u ij h {k. k LFKk i r fd, x, A

dukWd] rfeyukMqvls vka iz in\$ k l sehfy; k Mfic; k vls ehfy; k , st hMj kd ds iR; d ds nl & nl /ku o{ka dk p; u fd; k x; kA cht , d= fd, vls i k\$ k' kkyk r\$ kj dh xB\$ ou vuq \$kku d\$ hZ g\$ j kcn ea, e- , st hMj kd vls , e- Mfic; k dsfy, , d l arfr ij h {k. k LFKk i r fd; k x; kA , e- , st hMj kd vls , e- Mfic; k ds chtka ds vkd kfj dh; xqk vls r\$ ek= k dk v/; ; u dj vfhkfy [kr fd; kA p; fur /ku o{ka dh l arfr; ka ea vkuo'ka' kd fofHkurk dk v/; ; u djus dsfy, i \$ k uewka l sMh-, u-, - fu" d' k iz fr ij g\$

i k\$ x\$ e; k fi l ukV k

i atk] m\$ kj k [k\$ l] m\$ kj in\$ k vls g\$ j; k. k\$ jkT; ka ea i k\$ x\$ e; k fi l ukV k ds jk\$.ka dks l o\$ k. k fd; k x; k vls mPp cht mRikndrk vls r\$ ek= k dsfy, v'ktud thuz ika dh igpku dh xB\$ LFKk; Ro] vuqnyu'khyr vls of) in'ku dh tkp dsfy, > i k % g\$ j; k. k\$ 1/2 vls i aruxj % m\$ kj k [k\$ l] 1/2 ea 49 p; fur ifjokj kads l kfk {ks= ij h {k. k r\$ kj fd, x, A

e/ka k yk\$ xQkfy; k

xqkRed fo'y\$.k dsfy, m\$ kj in\$ k l segok ds 40 d\$UMMS/ /ku o{ka dk p; u fd; k x; kA jkl k; fud fo'y\$.k dsfy, Qny vls cht , d= fd, x, A

d\$ okfj uk

d\$ okfj uk bfDo l hfVQkfy; k vls d\$ okfj uk > ak\$ fu; kuk dh igyh ih- k- m | kulads v'ktud o{ka l s mxk\$ Z l arfr ds l kfk f} rh; ih- k- cht m | ku LFKk i r fd, x, A igyh ih- k- iz tuu vkckfn; ka dh l o\$ k\$ e 5% dh l arfr ds l kfk d\$ okfj uk bfDo l hfVQkfy; k ds, d



d: j] rfeyukMqea d\$ okfj uk bfDo l hfVQkfy; k dk , d 15 ek\$ igkuk f} rh; ih- k- l urfr ij h {k. k



15 ekg dsf}rh; ihk l rfr ijh{k.k LFkfir fd; ka igyh ihk ds nrljs ds ikj{hkd of) vqpm% 1/4.Fkku%Vh, u-ih, y- ifj l j] d#j] rfeyukMq

1/4 1/2 es hyMijkb] d#j ftyk] rfeyukMq 1/2 1/2 iwkyij] rfeyukMq ea ,d lMh; LFky vls 1/8 1/2 fl #xkee dMkyij] rfeyukMq ea 87 Dykska ds cglFkud {ks= ijh{k.k ds ikj{hkd isk.ka ij vk/kfjr dSokfjuk bfDol hfVQky; k ds Nks x, 10 lokke fu"iknd Dykskadks2008 ds nlsku LFkfir fd;k x; ka of) vls ruk : i dsfy, dkQh fofHkurk nslk xB



eyMqijkbZ ea Dyksuh; ijh{k.k

dSokfjuk bfDol hfVQky; k ,y- mPp mRiknd Dyksuh; jki .kacksyxkusgr Dyksak rduhdka fodfl r djus ds fy, fofHku Apkb; ka Hkw Lrj l s 15]30]45]60]100 vls 150 lseh 1/2 ij dklfl x iz, kx fd, x, vls 3 mipkj 1/2noj d] iyokj Mkyuk vls of) fu; ad mi; kx 1/2 iz Dr fd, x, A Hkw Lrj l s 45 vls 60 l s eh- ij dVsrusT; knk dkl l ijkskadk mRiknu djrsgq ik, x, A bu dkl l ijkska l s, df=r DyMkM vls l fip; ka dks eykRi fYk v/; ; uka dsfy, j [kk x; ka DyMkM vls l ph dYkR dkaeaykRi fYk dschp egRo iwZ fofHkurk nslk xB l fip; kaus65 dh vf/kdre eykRi fYk ifr'krrk ntZ dh tcd DyMkMka ds fy, 90 l s T; knk FkA



dklfl x {terk



tM+i dMius dh {terk

; wdfyVI

var%, oavrtkzh; ladjkadsmRiknu dsfy, [kys ijfkr lxe vfhkdYi ea; wdfyVI dh ,d iztuu ofk okVdk LFkfir dh xB ikj{hkd ea nls iztkfr; ka; Fk& ; wds i hfYVk vls ; wds ; jkQkbyk dksbudsiztuu 0; ogkj , oal dj l xrrk dsv/; ; u graqy; k x; ka ; wds i hfYVk ikyk ifrj{hkd gS vls ØhQkshDVfj; k D; wsl l dsdkj.k ruk dclj ds ifr l k/kj.k ifrj{hkd gS rFk bl dh rst of) gB ; wds ; jkQkbyk ea mPp mRikndrk vls vuqnyu'knyrk gSfdarq ØhQkshDVfj; k D; wsl l dsifr l onh gB nkska iztkfr; kadk mi; kx ylnh vls dxt ds fy; k gsk gB bu nls iztkfr; ka dh iq#Riknd tsoth dk v/; ; u fd; k vls bu nkska ds chp fu; r ladj.k dk izkl fd; k x; ka ; wds i hfYVk x ; wds ; jkQkbyk dh ,Q, ladj mRiknr vls {ks= ea jksir fd; k] ft l us ikj{hkd volFk eal adj vkt mPp ek=k dksn'kz, ka

Dyksuh; ijh{k.kkadksel; kdr fd; k vls cht m|kuka dh xqkoYk l qkjusdsfy, detkj Dykskadks gvK fn; k x; ka Nk/kZ dsckn] 60 p; fur Dykska l s cht ,d= fd, vls gbjkckn rFk i fkdks/VkbZea l fr ijh{k.k dh LFkku uk djusdsfy, djhc 25000 i kkdks mxk; k x; ka p; fur DykskadksDyksuh; : i l sxq.kr Hkh fd; k vls l ye rFk usyys eadjhc 2 cht m|ku LFkfir fd, A



iMkks/VkbZ ea; wdfyVI Dykska dk l urfr ijh{k.k



l ye eaDyksuh; cht m|ku



वर्षाकाल में जल की कमी के कारण पौधों की वृद्धि रुक गई है। पौधों की जड़ें सूख गई हैं। पौधों की पत्तियाँ पीली हो गई हैं। पौधों की तने पर सूखे की लक्षण दिखाई दे रहे हैं। पौधों की जड़ें सूख गई हैं। पौधों की पत्तियाँ पीली हो गई हैं। पौधों की तने पर सूखे की लक्षण दिखाई दे रहे हैं।



जल की कमी के कारण पौधों की वृद्धि रुक गई है।



पौधों की जड़ें सूख गई हैं। पौधों की पत्तियाँ पीली हो गई हैं।

, दस'क; क ए सु त; ए

फुल के कारण पौधों की वृद्धि रुक गई है। पौधों की जड़ें सूख गई हैं। पौधों की पत्तियाँ पीली हो गई हैं। पौधों की तने पर सूखे की लक्षण दिखाई दे रहे हैं।

नई दस'क में जल की कमी के कारण पौधों की वृद्धि रुक गई है। पौधों की जड़ें सूख गई हैं। पौधों की पत्तियाँ पीली हो गई हैं। पौधों की तने पर सूखे की लक्षण दिखाई दे रहे हैं।

/ku o{kka ds cht ,d= fd, vls i ksk'kkyk ea budh v/k&l glonj l rfr; ka yxkbz xba eW; kadu ds ckn l rjk vls ehyak xkuv] vl e eanls l rfr ijh{k.k LFKfir fd, x, A

V DVksuk xSUMI

iq#Riknd tsodh dsfy, chl Dykska dk v/; ; u fd; k vls l dj.k ds fy, ycy yxk; ka rhu Dyksuh; cht m|ku vls , d i ksk cht m|ku 1/500 o{kka ea i ti .k vls Qyu 0; ogkj dsfy, l Hh Dykska dk eW; kadu fd; ka l ye 1/2 rfeyukMbz ea , d Dyksuh; ijh{k.k LFKfir fd; ka fuykEcj l rfr ijh{k.k ea Dyksu ds , y u 2] ds , y , u 4 , oa Vh , u Vh 20 mRd"V fu"i kn d ik, x, A djy ds foHku Hkxkaea dy 56 mRd"V l kxka o{kka dk p; u fd; k x; k] dkl l ijkskads}kjk xq.kr fd; k vls okulifrd xqku m|ku ea LFKfir fd; ka foHku Dykskadsenyk i fyi n'ku dk Hh v/; ; u fd; ka

l kxka cht m|kuka l s i ktr vkupf'kd ykk dk eW; kadu d jusdsfy, nks Dyksuh; cht m|kuka vls , d i ksk cht m|ku ea foHku Dyksu , oa ifjokjka ds i tik mRiknu vls iq#Riknd __ r t sodh dk l e; & l e; ij eW; kadu fd; k x; ka cht m|kuka eacfg% dj .k dh l hek ds, d funkd ds: i eavdj .k vls i ksk vkt dk vkdyu d jusdsfy, i ksk'kkyk iz kx tkjh ga

rfeyukMqdsugj l kxka jki .kka ds of) i ti .k] cht mRiknu , oadk"B vfkky{k.kka ij yxkrkj ueh ds i kko dk v/; ; u fd; k x; ka ugj l kxka us mRd"V of) dks n'kz k vls 20 l kyka ea dkVus; k; vkdkj i ktr dj fy; ka Qy LFki u dh i fr'krk ugj {ks-kaea 5% Fk] vls l kku; r%vU; i kdfrd l kxka mxs {ks-ka dh ryuk ea ugj l kxka ea Qy LFki u foyEc l sgrk ga fr#o#j vls Fkst koj ea Dyksuh; xqku dsfy, i s h l mRd"V l kxka o{kka dk p; u fd; k x; ka {fr; ka vls i kdfrd {k; jksy{k.kk mnkj .kfk&o{k ds foHku Hkxka ea [kq'kyki u] 'k'k'z' 'k'qdu] 'k'k'z' f} 'k'ku vosk



Nā/kb] Qyko] xyh 'kk[kk,a v]s fdlh Hh dodh I j̄pukvkdh mi flFkr dk Hh v/; ; u fd; k x; kA

duk/d 1/4t xukeV/VH%/kkjokM1/2 v]s v]kzk insk 1/4P; [kkij] jktkedh1/2 ea, d&, d VDVkuk xBM/ dsnsDy]ksh; cht m|kukaesi qk vkxeu v/; ; u fd, x, A i qk vkxeu ea 36 fofHku mi pkjka ea j l k; uka ; Fkk& i Dy]s; W'st ksy] Dy]s kbFkkby & V'kbehFkkby & veksu; e Dy]s kbM] 2]3]5 & V'kbyk; kb/kst t kd , fl M 1/4h-v]kzch, -1/2 I fyl kbfd , fl M] I dfl fud , fl M&2] 2&MkbehFkkby gkbMst kbM 1/4 -, y-, -vkj-&851/2 usFkhyhu , I hVd , fl M 1/4 u-, -, -1/2 i k/s'k; e ukbV] i klyh bFkkbyhu Xykbdkly 6000 1/4 h-bzth-1/2 v]s 2] Dy]s kbFkkby i M] Okud , fl M 1/4 v]h, p-bzvkj-, -, y-1/2 ds i Hko dk v/; ; u fd; k x; kA oy; u t s l o/ku mi pkjka ds vykok] ijks vup/ku] ijks Nā/kbZ v]s tM+ Nā/kbZ Hh ykwdh xbA iz; kx ds n]s ku ruseaj l k; ukadk bUt d'ku yxkusdh , d ubzfofo/k [kksth xbA

'kqd I kxksu eafofHku cht v]s Qy i]skehVjka ea i fiek. ij vkuqf'kd fofHkurk dh fdLe v]s I æk dh fn'kk dk v/; ; u fd; k x; 1/5 A/C/ 1b 0 5 A/C/ 1a 1/4 vud ækuka us xqjkr I kxksu ea I Hh Qy v]s cht i]skehVjka ds fy, vR; f/kd egRo i w]z fofHkurk dks n'kz kA LVksu yEckb] mi pkfjr LVksu yEckbZ 1/4e-eh-1/2 LVksu Hkj 1/4k-1/2 v]s mi pkfjr LVksu Hkj vR; f/kd oākkr ik, x,] tcd LVksu pKb]b] mi pkfjr LVksu pKb]b] v]s vi fjr pscjka dh I q; k I k/kj.k : i l s oākkr gā

xqjkr I kxksu eaof) fo'kSkdkadsoākkr ij X; kjg I ky ds l rfr ijh(k.k 1/8 v/k&l gknj ifjokj 1/2 dk vkuqf'kd fo'ySk.k fd; k x; kA Øe'k% 'k'z izkkurk v]s I kQ ruk yEckbZ ds fy, , dy v]s ifjokj oākkrRo eku 4 l s26 v]s 12 l s43 ifr'kr FkA ÅpkbZ v]s I kQ ruk yEckbZ us l k/kj.k ÅpkbZ n'kz o{kkprk ?kj k v]s vk; ru us l k/kj.k in'ku fd; k v]s vk/kfjr {k= v]s 'k'z izkkurk us l æh.kz I on oākkrRo dk fuEu vkdyu n'kz kA vkuqf'kd mlufr ds l k/kj.k I s fuEu vkdyu adsl kFk I æh.kz I on oākkrRo dsekuka

us I a ksth v]s vl a ksth thu l fØ; rk nkska dh mi flFkr dksn'kz kA

ijh{k r tudkaeal sl kr tudkaus ÅpkbZ v]s ?k]s ds sfy, I dkjRed I keku; I a kst u {kerk fn [kkbA i kp tudkaus I Hh fo'kSkdkad sfy, I dkjRed I keku; I a kst u {kerk 1/4t h- l h, -1/2 fn [kkbA I dkjRed I keku; I a kst u {kerk ekuka ds I kFk bu tudka l s oākkr , yhyt ds l eg dks vkJ; nsus dh vk'kk gS i qj l a kst u }kj k vPNh l rfr; ka mRi kfr djus dh vk'kk gā mlufr i h- h cht m|kukadh LFki uk ds fy, bu tudkadk mi ; kx djusdh l rfr dh xbZ gā

, d f'k; k vk]j dfr yQk WeZ k

v/k&l gknj l rfr p; u }kj k , d f'k; k vk]j dfr yQk WeZ k ds vkuqf'kd I qk] dk; Øe dk fu"iknu ou vkuqf'kdh , oa o{k iztuu l hFku] dks EcVij eafd; k tk jgk gā d#. ; k v]s i ukei Yyh ea ou vkuqf'kdh , oa o{k iztuu l hFku }kj k LFkfr nks i k k cht m|ku] djy ea phV/hdnye ea djy ou fofHkx }kj k LFkfr , d cht mRi knu {k= v]s duk/d eagk kuokxkj ea s ij i j feYI HkkoVh }kj k LFkfr nkscht m|ku ea o{k p; u fd; k x; kA bu m|kuka ea ruk : ij 'kk[ku 0; ogkj v]s of) ij vk/kfjr dy 132 o{kka dk p; u fd; k x; kA v/k&l gknj l rfr; ka yxkus ds fy, p; fur o{kka l s , dy o{k cht l æg.k fd; k x; kA nks l rfr ijh(k.k i ukei Yyh ea igyk v]s n] jk i kM] p]h ea r s kj fd; k x; kA 2007 ds n]s ku djy eai ky kM] 1/4=obhje i Hkx 1/2 v]s onkd d k] p]h 1/4 fkd ij i Hkx 1/2 ea p; fur mRd"V o{kka ds 132 v/k&l gknj ifjokjka dks



i ky kM] + ea < kbZ l ky ds l urfr ijh(k.k dk fojyu



फेकड, द, द गडवस ज दस नस वस लरर इहक. क
 LFKfir fd, x, A ifjokjka vks cht l kkaeaf) vks
 ruk : i dsfy, egRo i wZfofHkurk ns[kh x; hA pkj cht
 l kkaeaf ukei Yyh] d#. ; k] cgkyh , oae fck#%eacgkyh
 vks i ukei Yyh cht m | ku l smRi l u gksokys ifjokj
 cgrj in'ku dj jgs FkA eW; kdu dsckn Nk/kbz l ph
 r\$ kj dh xbA 50% o{ kka dsgVkdj bu l Hk i jh{k. kkae
 fud"V o{ kka , oa ifjokjka dh Nk/kbz dh xbA Nk/s x,
 i jh{k. kka dks vc f}rh; ihk cht m | kuka ds : i ea
 mi ; kx dj l drsgA

, yUFkl , DI YI k

rfeyukMqdsfofHku df" k tyok; oh; {k=ka dk
 l o{k. k djdstuun0; l xg fd; k vks l ey{k. kh; : i
 l s 200 mRd"V o{ kka dh igpku dh xbz iztkr dh
 fofo/ki qih , d fyakJ ; h izfr dsdkj. k 92 , dy o{ kka
 1/2 rfeyukMq l s vire : i l s cht , d= fd, x, A
 i ksk' kkyk ea i kskamxk, vks , yUFkl , DI YI k i kskads
 of) vkpMa, df=r , oaf'o' ys"kr fd; kA

rhu tuun0; cd l Fkfir fd, fr#irh
 1/2 kzk insk 1/2 ea , d] rfeyukMq 1/2 rfeyukMq ou foHkx
 Hke; kbz ; Fk&lye vks dkphije ftys ea nka
 vzkz insk i jh{k. kka ds 80 cht ykMa 1/2 rfeyukMq
 e/; insk jktLFku] mYkj k kM vks vzkz insk 1/2 ds
 fo'y sk. k us n'kz k fd vl; cht l kka dh rgyuk ea
 dkojh Msvk {k= 1/2 rfeyukMq d of) in'ku vPnk FkA
 Ms+l ky ds thol l f[; dh vkpMa ij vk/kfjr Hkoh
 Dyksh; id/ku ds fy, , yUFkl ds 40 , dya dks
 fpgfur fd; kA foHku l kka l s, df=r cht kadsfy,
 i jkehVj kack v/; ; u fd; k x; kA



fr: ifr ea tuun0; cd l



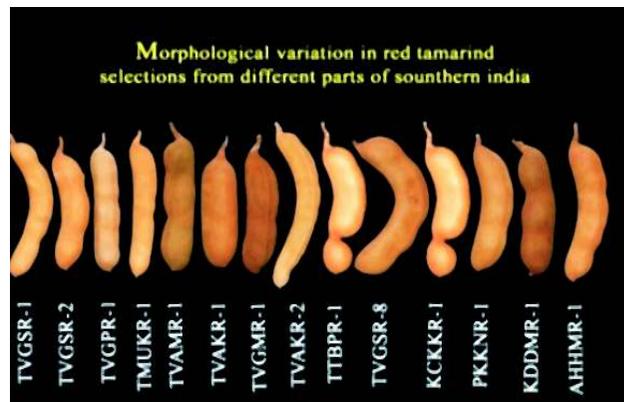
lye ea tuun0; cd l



fr: ifr ea tuun0; cd l

beyh

yky vks ehBh beyh ds p; u , oa l j{k. k
 dk; De nf{k. kh Hkjr ea l Eiknr fd; k tk jgk gA yky
 vks ehBh beyh o{ kka dh igpku vks p; u dsfy,
 rfeyukMq dukZ/d vks vzkz insk dsfofHku Hkxkae
 l o{k. k l Eilu fd; k x; kA yky beyh 52 foHku o{ kka
 vks 37 ehBh beyh dk p; u fd; k x; kA , UFKad suu]
 dy 'kdj kj vuqk; , fl M] , LdMcb , fl M vks
 vkM l HmsVj kskh xqka dh ek=k c<kdj yky vks ehBh
 beyh ds tdkj k; kud y{k. k o. ku fd, x, A fonfyr
 xkfVax ds} jk yky beyh dk oku l ifrd xqku fd; k
 x; kA thol k[; dh y{k. k k _ r q sodh; , oa
 i q#Riknd foHkurk ij vkpMa vHkyf[kr fd, A
 d#Eiki VVh] l ye 1/2 kj-, 0-1/2 eayky vks ehBh beyh
 ds jk"Vh; tuun0; cd l Fkfir fd; k x; kA



nf{k. kh Hkjr dsfofHku Hkxka l syky beyh p; u ea
 vdkfjd; foHkurk



gkMfod; k fcukVk

gkMfod; k fcukVk dh vkckfn; ka ds igpku djusgrqdukd] vkckz insk vksj rfeyukMqdsfofHkuu Hkxkaeaal o{k.k fd; k x; ka ikjHkd vkdkfjdh; i{k.kka dks vfHkyf[kr fd; k vksj o{k fo'kskdka ds fy, ifjorZu'khyrk ds vfHkyf[ku grqbu jkT; ka ea fofHkuu vk; qdsjki .kaal sdkj ueus, d= fd, A bu dks ueuka ij v/; ; u fd, tk jgs gA cht fo'kskdka ea ifjorZu'khyrk Hkx vfHkyf[kr dh tk jgh gA

Vdksy v. MykVk

jkTLFku ds tS yej] ckMej vksj tkski g ftykaea0; ki d l o{k.k dsckn Vdksy v. MykVk ds pkyhl dSUMMS/ /ku o{kka dk p; u fd; k x; ka 40 dSUMMS/ /ku o{kkaal schtkadks, d= fd; k vksj 'kqd ou vuq dku l hFku iksk'kkyk] tkski g ea iksks mxk, x, A vxLr 2008 dsnkjku fcdkuj vksj tkski g eal arf ijh{k.k LFKfir fd, x, A fcdkuj eadsoy 66% dh rnyuk ea tkski g ea 91% mYkj thfork ifr'krk FkA pksVu 1/2 ckMej 1/2 vksj eksux < 1/4 tS yej 1/2 sl arf; kaus tkski g eal okWj of) 1/45 l seh 1/2 nh vksj tcf d fcdkuj eaksux < 1/4 tS yej 1/2 sl arf usl okWj of) fn[kkbZA cdkufu; k yltu

e/; insk dsfNnokMk xksUM; k] 'kkgknk vksj jk; x<+ ou iHkxka ea dty 33 l ey{k.kh; : i l smRd"V dSUMMS/ /ku o{kka dk p; u fd; k x; ka 25 dSUMMS/ /ku o{kkaal scht , d= fd, vksj okfudh vuq dku , oaekuo fodkl dbnz ifj l j] fNnokMk ea l arf ijh{k.k LFKfir fd, A



cdkufu; k yltu chtkadg

esykbuk vkckj h; k

esykbuk vkckj h; k ds Dyksh; cht m|kuka ea iq#Riknd tSodh tkuus dsfy, ijh{k.k fd; k x; ka okuli frd , oa iq#Riknd ?kVukvka ij vkortz i{k.k fy, x, A crj rhc p; fur 'kk[krvkal sQy vksj i qi .k ds

vkdmavfHkyf[kr vksj eW; kadr fd; ka 70 Dyksuka ea l § 57 Dyksuka ea i qi .k vfHkyf[kr fd; k x; ka ekpZ ds vare l lrkg eadyh vkxeu ns[kk x; k vksj ; g viSy dse/; eapje ij igp x; ka bl dsmijkar dfy; kadh l jpk ?kVh vksj viSy eal ektr gPZ rFk ifr 'kk[kk 22 Qykaea Qy LFKki uk gPZ

, fDoyfj; k esyd hfUI l

, fDoyfj; k esyd hfUI l dk {ks= thu cdL LFKfir djus dsfy, okNuh; thuz ikadsp; u ij v/; ; u fd; k x; ka vle ds fofHkuu LFKkuka l s tuun0; , d= fd, vksj iksk cht m|ku LFKfir fd, A ijksj dye dh eny kRi fYk }jk Dyksuh; xqku iks/kadkly ekudhr fd; k x; ka

ou o{k iztkfr; ka dh fdLea dk o.kZ] ijh{k.k vksj iathc) djus ds fy, j .kuhfr; kafodfl r djuk

; vksyVI vksj dSokfjuk dsfy, Mh; w, l - MhLØIVIZ vksj Mh; w, l - ijh{k.k ekxZ'kZ fl) kar fodfl r djus grq fofHkuu mxelFkyka dh vk/kj Hkr vkckfn; ka ea v/; ; u fd; k x; ka iYk] ruk] Nky vksj iq#Riknd l jpkvka ea vkdkfjdh; y{k.kka ea fofHkurk vfHkyf[kr dh xBA p; fur vkdkfjdh;



	Clome no. 14	Clome no. 19	Clome no. 94
Live bark	Light green	Yellow	Yellow
Dead bark	Gray	Brown	Green
Peeled bark	Brown	Dark brown	Brown

iztuu dk; Øela l smUr chtkadh vfHkxE; rk , oa l eFkrk ea l dkj djuk



fo'kSkdka dh , d: irk vLj LFkF; Ro dk ifj.kke c<kus dsfy, nksjk, x, Dyksuh; ijh{k.kkaev/; ; u Hkh fd, x, A dSokfjuk eÞ 300 Dyksukaefd, x, v/; ; u ij vk/kkfjr Mh; w, l - y{k.kka ds: i eaDy&M& i Yk] Nky] 'kk[kk vLj i q#Ri kn d l j p uk vk adsfy; k x; kA Dyksuka dsfoensu dsfy, djhc 49 fofHku MhFLØVI Zfn, x, A dSokfjuk bfDol hfVQsfy; k vLj dSokfjuk >@kqfu; kuk dsfy, vk/kkfjHkr fofHksu vfHky{k.k Hkh fn, x, A ; dSfy/VI eÞ nksLFkkuka; Fk&dks EcVij vLj l F; koMw ea j [ks Dyksuka dk v/; ; u fd; k x; kA i Yk] Nky] 'kk[kk vLj i q#Ri kn d y{k.kka ds Mh; w, l - y{k.kka ds: i ea fy; k x; kA fofHku ; dSfy/VI Dyksuka ds fofHksu dsfy, djhc 31 fofHku MhFLØVI Zfn, x, A bu nks iztkr; ka dsfy, foLrr Mh; w, l - MhFLØVI Z vLj Mh; w, l - ijh{k.k ekxh'ku fl) kar fodfl r djds vyx l si Znr fd, A

Mh; w, l - y{k.kka ds ekU; dj.k ds fy, dk; Z ; kstuk fodfl r dh xbz vLj ; dSfy/VI , oa dSokfjuk ds l Hkfor Mh; w, l - y{k.kka ds vire : i fn; kA Mh; w, l - y{k.kka ds ekU; dj.k ds fy, fofHku LFkkuka ea Kkr igpku ds l kFk Dyksuh; jk. k dk p; u fd; k x; kA {ks= ea Mh; w, l - y{k.kka ds vfHky[ku dsfy, Ldkjæ 'knv rš kj dh xba

cMh l [; k ea Nks/so{k Okelã, oaxkeh. k l epk; ka ds ykHk dsfy, izt uu dk; Deka l smUr cht ka dh vfHkx E; rk vLj l efkz; rk ds l qkjus dsfy, d"kdã i kjEifjd i kSk'kkyk l pkydka vLj ou fofHkx ds {ks= depkj; ka ds 'kfe y djds rhu l kepki; d cht m | ku LFkfir fd, x, A vkupã'kd : i l smUkr jk. k LVkãka dh vko'; drk ij tkx: drk dk il kj djus dsfy, ekMly m | kuka ds: i ea bu m | kuka dk i kSk.k fd; k tk, xkA cht@i kSk mRiknu izkkyh dk fodkl vLj izdk djusead"kdã i kSk'kkyk l pkydka, oaou fofHkx depkj; ka dh n{krkvka ds l qkjus dsfy, {kerk fuekZk dk; De tkjh gã ou vuq l vku l h.Fkku] nsgjknw ea cht cãl }kj k mRi kn d ka ds xqoYkk cht mi yC/ k dj, tk jsgã tglaf) igpku ds l kFk vPNh xqoYkk ds cht ka ds l afy vLj i kSk'kr fd; k x; k gã

2-3-4- okuLi frd i o/ku

- MS cftZ k fl LI wvLj ; dSfy/VI Dyksuka dk okuLi frd i o/ku fd; k x; kA MS cftZ k fl LI w eÞ 75 Dyksuka dks xfi.kr fd; k vLj djhc 15000 iknfi dkvka dk mRi knu fd; kA gfj; k.kk] i atkc] mYkj inSk vLj mYkj k[k.M ds fofHku LFkkuka ea Dyksuh; ijh{k.kka ea i df/kr ikni ka dks LFkfir fd; kA blh izkj ; dSfy/VI ea ik; ksd mnas; dsfy, djhc 5000 iknfi dkvka dk mRi knu fd; kA
- ijEijkr nks xk Bnkj dye fof/k; ka dk mi ; kx djds ; dSfy/VI ds mRi kn d Dyksuka dh vufØ; k dk v/; ; u djus dsfy, eywRi fYk ijh{k.k fd, x, A eywRi fYk vufØ; k ds vk/kkj ij Dyksuka ds vPNk l k/kj.k vLj detkj : VI Z ds: i ea Jskhd r fd; k x; kA y?k dye rduhd vLj l ue dye rduhd ds }kj k eywRi fYk vLj jk. k LVkã mi yC/krk c<kus ds iz kl fd, x, A okuLi frd : i l si df/kr 'kk[kk vLkã mi ; kx djds 22 Dyksuka ds l kFk cM+m | ku dh LFkfi uk vLj i kSk.k fd; kA l ue dye rduhd ekxZ dsfy, , d cM+m | ku dh LFkfi uk djus ds fy, Ard l o/ku ekxZ }kj k mRi knr vkB Dyksuka ds i o/; ka ds Bkghdr djds D; kfj; ka e j ki r fd; kA
- rst of) djus okyh iztkr; ka ds l azk ea ik= s voLFkka ds rgr ij koka ds vkxeu ds fy, ehfy; k Mfc; k ds of) gkeZka ds chl fofHku l a kst uk adks, dy : i eavLj l a kst u eai jhf{kr fd; kA dk buh Vu dh fuEu l khrk ds l kFk vFkok , dy eacat kby vfeuk l; jhu dh igpku dyh vkxeu dsfy, l cl smi ; of) fu; æ d ds : i eadh xbz gã



ehfy; k Mfc; k ea cgq i jksg vkxeu



- ckl ka dh 0; ki kfjd [krh dsfy, ckl dh 50]000 tMe) dyeamxkusdh {kerk dsl kfk l h-vks, Q-iks ei v/ ea, d okuLifrd id/kzu dhnz LFkfr fd; k x; kA
- *MScftz k fl LI* wDyuskads ik=s l j puk fodkl {kerk dsfy, vku p a' kd fofHkurk dk v/; ; u fd; k x; kA
- Tkcyij l s *MScftz k yfVQky*; k o{kka ea vrtkr vNDI u 1/4 kbZ, -, -1/2 Lrj ea egROIwZ



MScftz k yfVQky; k dh ijkg dyeka eaviLFkfrud eykRi fYk

ekS eh; @thuiz ih fofHkurk vfhkyf [kr dh xBA vkbZ, -, - ekpZeaU; wire 1/4-742 μgg^{-1} rtkk Hkj 1/2 vjS tykbZ ea v/ kdre 1/3-640 μgg^{-1} rtkk Hkj 1/2 FkA plnkij 1/2 gkj k"V 1/2 vjS txnyij 1/4 N Ykhl x < 1/2 l s p; fur o{kka ea vrtkr vNDI u ea egROIwZ thuiz ih fofHkurk Hh vfhkyf [kr dh xBA tcyij] plnkij vjS txnyij dsp; fur o{kka ea eykRi fYk {kerk ds ij h k. k dsfy, iz kx fd, x, A tcyij dsp; fur o{kka dks dyeka ea 4 ?ka/s dsfy, 5 mm vkbZ, -, - ds, d vk/kfj; Mqko mipkj usfu; a. k ea 1-33% dh rgyuk ea 11-33% rd viLFkfrud eykRi fYk dks i k R l k fgr fd; kA l k fgr; us d by 5% eykRi fYk n' k kbZ gS vjS iztkfr dks *yxus ea cgr dfBu* ds : i ea Jskhd r fd; k gA

- *Lkjkd k b fMdk* fyu- , d vfrl osnu'khy vksv/kh; o{kj ea iknfidkvka dk ik=s i q tzu fd; k x; kA 2-3 l ky ds i knika ea xje ekS e ea i k r v/ kdre v d j . k 1/35-2% 1/2 dsl kfk d {kh; d fy; ka ds v d j . k ij ekS eka dk vR; f/ kd egROIwZ i Hko n s k k x; kA 0-2% Hgcl₂ mipkj dsl kfk d fy; ka ds v d j . k ij fol Oe. k mipkj ka dk Hh egROIwZ i Hko FkK ftl ds QyLo: i v/ kdre v d j . k 1/38-97% 1/2 g v/ k/ tks 0-1% Hgcl₂ mipkj dsl kfk i k r v d j . k 1/27-8% 1/2 dsl eku FkA ekS e vjS fol Oe. k mipkj ka dk 20 l ky ds i fji Do o{kka l s vxLFk d fy; ka ds v d j . k ij [kkl i Hko ughai MKA x fUky [k/ka l s i q t z u r ij k s ka ds n h? kh d j . k vjS dyh v d j . k dsfy, 2-2 μm ch, - dsl kfk l E i f j r B_s ehfM; e dh l cl smi; O r ehfM; e ds : i ea t k p dh xBA B_s ehfM; e ea KNO₃ ds i f j " d j . k ij] KNO₃ dh i f j " d r l k e F; Z dk l o/ k z k dspkj l l r k g ckn ij k s ka dh l a; k vjS d fy; ka ds v d j . k ij l k a [; dh; : i l s egROIwZ i Hko FkA

- *fMIVhjk d ki Z j h V t l* ds 23 p; fur thuiz ika ds fy, cgn id/kzu v/; ; u fd, x, A iztkfr; ka ds cgn id/kzu ds fy, d k n i l ij k s dyeka dh eykRi fYk mi; O r fof/ k i k b z xBA
- enkl ckyw vjS QkeZ KMZ [kkn dkys ehfM; k ds }kjk cEc k i k f y M k dh i k s k' k y k r duhd k ad k ekudhdj. k] uky dyeka ds }kjk id/kzu dsfy,] mi; O r ik; k x; kA vkbZ i h, - ?k s y ds 300 i h i h, e- mipkj ea uky dye d se key sea 20 & 25 mYk t h f o r k n s k h xBA cgn i p g k n H k o u r duhd ds ekeys ea 75 & 85% mYk t h f o r k vfhkyf [kr dh xBA



Dyksuka dls vfhfryf[kr fd; kA mPp l q; kvka ds i klyhelfQZd cSMka ds l kfk nl vkj-, -ihMh- i kbejka/caykš thuh fy-½dk mi; kx djds l Hh Dyksukadk vkf.od y{k.k o.ku i yk fd; k x; kA

- dSokfjuk bFDKl hfVQkfy; k ea crjrhc ifjof/kf cgq ih ¼vkj-, -ih½ Mh, u-, - tkp ds }kjk, l-, l-vkj- vaddkavkš Mh, u-, - ikQkbfya dk fodkl fd; k x; kA vkj-, -ihMh- tkp dks bLVrehr fd; k x; k vkš dSokfjuk bFDKl hfVQkfy; k ds, d l kš ipkl Dyksuka dh ikQkbfya dsfy, N% i klyhelfQZd ikbejka dk mi; kx fd; k x; kA
- o'kz ds nkšku vkupf'kdh, oa tš i kš kšxdh ij fofHku fo'fo|ky; ka vkš 'kš'kd l a.Fkkuka ds yxHx 100, e-, l-l h- ¼t š i kš kšxdh½fo | kfkz, ka dsfy, vYidkyhu i f'k{k.k fn; k x; kA

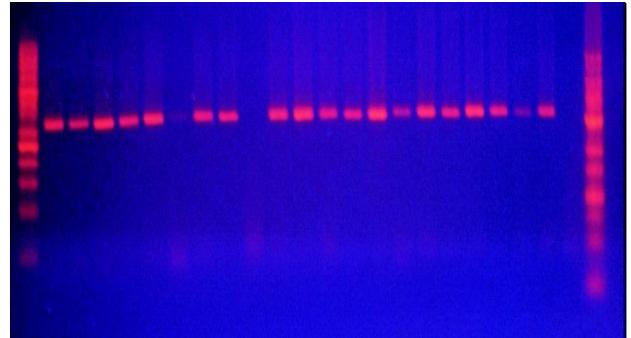
iztuu dk; Øeka ea vk.kfod vaddka dk mi; kx

, l-Vh-, l- vaddka dk mi; kx djds fo'kš'kdka dk l q kst u fo' yš.k.k

Li; kst u fo' yš.k.k, ikp dk mi; kx djds ; dšy l Vj šVdkfu l ea ewkš i f'k dsfy, l {ke, l-Vh-, l- vaddka dh igpu djus dk iz kl fd; k x; kA ; dšy l Vj šVdkfu l us 10 l s 90% rd ewkš i f'k ifjor'U'khyrk n'kkB r'hl, l-Vh-, l- vaddkadkšewkš i f'k 10 eSM l k/kj.k vuš i ujkof'k vaddka vkš 10 0; Dr vuš VŠ&l k/kj.k vuš i ujkof'k ds l kfk l Ec) fd; k x; k; ftlga fojhr ewkš i f'k {kerk ds l kfk ; dšy l Vj šVdkfu l 30 l e: ika ea Økl ifjof/kf fd; k x; kA l gkučak vl r'yu eku ¼Mh½ 0-49 l s 0-80 Fk vkš l gkučak vl r'yu {k; ¼²½ 0-02 l s 0-13 Fk} ft l us; dšy l Vj šVdkfu l ea vadd&fo'kš'kd dh igpu djus ds fy, dšMMS/ , l-Vh-, l- vaddkadsp; u grqvk/kjHr l puk mi yčk djkbA

VŠVŠk xŠMI ea dk'B xqko'k fo'kš'kd ds l kfk l Ec) vk.kfod vadd dh igpu ds fy,

iz kl Hh py jsgš ft l dsfy, ih-l h-vkj- voLFk vkka dks, l-Vh-, e-, l- fo' yš.k.k dsfy, ekudhr fd; k x; kA



Vhth 19, l, l vkj kca & nka ¼50bp Mh, u, yMj, ih ds b, & 23, ih, u ih, y&9, l h&II th+10, l Vh&17, l Vh& ds, y d&1 ih Vh&41 ih Vh&3, e, p, l l h&, 3, e, p, l l h&, 1] visvly ch; wch&11] vls vkj ih oh; & 6] Vh, u Vh&8] Vh, u Vh&10] ; wi h&, e; ; wi h&,] MCY; wch MCY; wch \$ 4], vkb&, u], vkb&1 vkš 25 bp Mh, u, yMj ds l kfk l kxku /ku o{kads thuked Mh, u, dk, l Vh, e, l foLrkj.k

Pknu ¼l šVšye, Yce, y-½ dh ršy /kkj.k {kerk dk ew; kadu, oaHkfo"; ok.kh

Vh-i-h l s 27 p; fur o{kavkš Vh-vkš jki.k {k- l s 3 o{kadh i f'k; ka ea ukbVŠ vipk; d l fØ; rk dk fu/kkš.k fd; k x; kA Vh-i-h p; u l s Vh-i-h&1 vkš Vh-vkš p; u l s Vh-vkš&1 ea vf/kdre, Utkbe l fØ; rk FkA nli jhr jQ Vh-i-h&6] Vh-i-h&7 vkš Vh-vkš&17 o{kæamuds p; uka ea fuEure, Utkbeh l fØ; rk vfhfryf[kr dh xB A Vh-i-h vkš Vh-vkš jki.k {k- l s i r; d dsp; fur 30&30 o{kadh i f'k; ka ea i jvkD l HMS l fØ; rk dk fu/kkš.k fd; k x; kA Vh-i-h p; u l s o{kæus Vh-vkš p; u dh vi škk T; knk, Utkbe l fØ; rk dk in'ku fd; kA

; dšy l Vj šVdkfu l ea ek=kRed fo' yš.k.k ykd h ¼D; wVh-, Yk-½ ekufp=.k

Ekufp=.k vkcknh dh LFkki uk dsfy, , Q, l adjka dks l ftr djus grq; ds deYMryfu l x ; ds xŠMI vkš ; ds Vj šVdkfu l x ; ds xŠMI ds l q kst u ds QyLo: i fu; f=r ij kx.k i yk fd; k x; kA vkupf'kd l gkučak eš'kd ds l ftr djus dsfy, bl l adj.k dk; Zeafo'kš'kdka; Fk&yok l gu'khyrkj viLFkfr ewkš i f'k vkš dk'B xqka dks puk x; kA l gu'kDr@l šnu'khyrk l rjka dk i rk yxkus dsfy,



I qj vkDI kbM] fMI E; wst] dS/kyst] XyWkSFkvks ij vkDI Mst vls , Ldkw/ ijvkDI Mst tsh fofHku , Utkebe izkkfy; ka grqI kM; e DykskbM mipkj dh fofHku voLFkvka ea ; ds deYMyfUI I Dykska ea yo.k I gu'khyrk Lrjka dk eW; kadu fd; k x; kA fiPpkuos ekbØkd SsykbV ikbej I S/4 dhj ; ds deYMyfUI I] ; ds VjSVdkMUI vls ; ds xMI dsifr budh gLrkLrj .kh; rk dsfy,] tKp dh xbz ftlgatud vls , Q, I djkaeal Qy foLrkj .k ij I gkuqak ekufp= I jpkvksdsfy, iz, Dr fd; k tk, xkA

dStokfjuk bfDofl fVQkfy; k ea fl Uuekly I h-vks, - Aipk; d , utkbe thu dh , yhfyd fof/krk

ckjg I ky dh iPph Dyksuh; vuof); ka ea dk'B uewka ea fyfxuu vls gkSykl Snykst ek=k dk eW; kadu fd; k x; kA gkSykl Snykst dh jat 75&80% vls fyfxuu dh 24&54% FkA dk'B I ehiLFk jklk; fud fo'ySk.k 1/4 jk[k] vYdksy cSthu fuLI kjd] ty foys rk] NaOH foys rk1/2 Hh fd; k x; kA iPph Dyksuh; uewkaej Ohukby veku; e yd h tKp dk mi; k djdsfl Uuekly I h-vks, - vipk; d , utkbe I fØ; rk dk eW; kadu fd; k x; k] tglavl xr fofHkurk I qkV FkA ckbI I h- h-vkj- 1/4 xdrh vls foi jhr 1/2 ikbejkausi fjoF/kR mRi knkdk mRi knu fd; kA

dStokfjuk bfDol hfVQkfy; k eafyax fu/kkj . k

dStokfjuk bfDol hfVQkfy; k ea ckjg vkbl s, utkbe 1/4 LiSV vfeuks VUI Qjst 1/4, -Vh 1/2 vYdksy MhgkbMst hust 1/4 Mh, p-1/2 bLVhst 1/2, I -Vh 1/2 ikyhOhukly vkDI Mst 1/4 h-ih-vls ijvkDI Mst 1/4 h-vlsMh 1/2 XyWes/ Mh gkbMst hust 1/4 hMh, p-1/2 vkbl kl kbVSV MhgkbMst hust 1/4 kbMh, p-1/2 I qjvkDI kbM fMI E; utst 1/4 I -vlsMh 1/2 eySV MhgkbMst hust 1/4 eMh, p-1/2 esyd , utkbe 1/4 e-bz] yDVSV MhgkbMst hust 1/4 y-Mh, p-1/2 XyWkst 6&OQVSV MhgkbMst 1/4 h&6& i hMh, p-1/2 dks b"Vrehdr fd; k x; kA ikp I qi"V fyax fo'kSk , utkbe 1/4, -Vh] vkbMh, p-] , -Mh, p-] , y-Mh, p-] i h-vlsMh 1/2 dsfy, pKshl uj vls rbl eknk dStokfjuk Dykskadh tKp dh xBA fyax fofHkdj .k ea ijvkDI hMst i kQkbykdkscgr I qi"V ik; k x; kA

dStokfjuk bfDol hfVQkfy; k ea yo.krk I gu'khyrk

ou vkuof'kdh , oa o{k iztuu I hFku jyk fodfl r , oa ik'kr dStokfjuk bfDol hfVQkfy; k ds Dykska dh tKp dks I {ke cukus ds fy, mi; Dr tB jklk; fud fpgudkadh igpu djusdsz kl fd, tk jgs gA ijh{k.kadsvk/kkj ij] yo.kh; vls xS&yo.kh; {k-lads fy, mi; Dr Dykska dks Jskdr fd; k tk I drk gA dStokfjuk bfDol hfVQkfy; k Dykska dks vukor djusgrq yo.krk jat dh igpu djusdsfy, iz, kx fd, x, A

thu i FkDdj .k vls dk; kRed fo' ySk.k ; dsfyVI VjSVdkMUI I sf}rh; d tkbye fof'k"V I Snykst I hUFkst thukadh igpu

fl fydk ea I y; ykst I hUFkst 1/2 CesA 1/2 thuka ds U; Dyhvk/kbM vls ik'hu vuØkadsl ph, oal dyu ds fy, vuØku fd; k x; k vls ikbej ; kladks CesA ds I h, I -vkj- II i kko&{k- dsy{; djdsvfHkdfYir vls I ay'kr fd; kA ikbej ; kka dh tKp dh xbz vls ; ds VjSVdkMUI dsf}rh; d tkbye Ardkdk fodkl djusea CesA ds N% i jokj kadk i fruf/kRo djusokyh N% i frfyfi dh igpu dh xBA CesA thukads 3* MkmLVhe I hDol dh igpu djusdsfy, v/; ; u ixfr ij gA

j{k k I af/kr thuka ds i FkDdj .k ds fy, dStokfjuk Vkbdk i kfj; e i kj Li fj d fØ; k ea i frfyfi vfHk; fDr dk fofHkdj .k fo' ySk.k

nks jkstuu I af/kr thuka; Fk&fpfvust vls XyWkst dks dStokfjuk bfDol hfVQkfy; k ea Dyksa fd; k vls jkstud fuxeu ds nks ku budh vfHk; fDr dk v/; ; u fd; k x; kA bl ds vykok] I kbVke vkDI hMst] ik/hl e] I dsr igpu ikVbzly vls I qk I gu'khy bz, I -Vh- I sl ni vKkr vuofr; ka lgr i ed'k vuofr; ka dks jkstud fuxeu ds nks ku vfr vfHk; Dr ds: i eainf'kr fd; k x; kA

yo.k I gu'khy o{k iztkfr; ka ea thu I etkr dh tKp ds fy, vtb nckoxLr I gu'khyrk ea I ekfo"V thu vuØeka dk fo' ySk.k vls os I efkZdkjh vkdMk vk/kkj

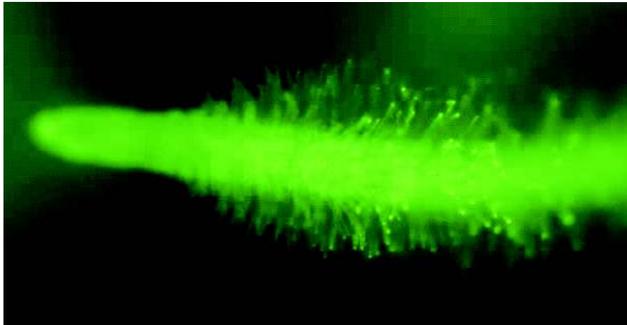
dStokfjuk ea yo.k ncko I gu'khyrk ds vkuof'kd fu/kkj dka dh igpu djus ds fy,] vR; f/kd



yo.k I gu'khy vls yo.k I onsh Dyksadsh igpku djsuds
fy, 82 dSofjuk bDol hfVOfy; kDyksadsh tlp dh
xbA vR; f/kd I onsu'khy Dyks 400 mM rd I gu dj
I drk gS tcd I cl s I gu'khy Dyks 550 mM Nacl
ncko dsckn 45 fnu tfor jgkA tcd tM+Isruk
I kM; e ek=k ifrjksk Dyks ea ,d ds I ehi Fk
vfrl onsu'khy Dyksadsekeysea i jkskous tMledh viSk
2 I s3-6 xqk T; knk I kM; e dk I p; fd; kA Dyksadk
fokhdj.k thu vfhO; fDr fo'ySk.k fd; k tk, xkA

; vdfyVI ea yo.k I gu'khyrk ea 'kkfey
thuka ds dk; kRed fo'ySk.k ds fy,
fof/k; kadk fodkl

Yko.k I gu'khyrk ea 'kkfey thuka ds Rofjr
dk; kRed fo'ySk.k dsfy, VNUI tfud jksy tMleds I kFk
; vds VjSvdMUL dEiStV iknildsfodkl dsfy,
vge iSkehVjladksfo'ySk.k fd; kA jksy tMleds i ktr djs
grami; Dr dYk dks: i eal i e idf/kz iknfdkvladh
igpku dh xbz vls ; vds VjSvdMUL Ård I oBkz
i jkskads jksy tM+I oBkz eathbz, Q- vfhO; fDr i ktr dh
xbA iz, kx'kkyk okroj.k eadEiStV iknildsdBkhdj.k
dsfy, mi; Dr ehM; k dk fu/kj.k fd; k x; kA At NHX
dUI VDVt dksvkJ; nsokys, - VhQd tUI dk mi; kx
djds: i ktrj.k iz kx tkjh gA



; vdfyVI VjSvdMUL dh VNUI tfud jksy tMleds
dksO; Dr djsrq gfjr ifrnhl i k/hu

I Qn foxyu dod ul y dk I qkkj

I Qn foxyu dod dh fofklu ul yka
VldhtkOkbye dksuhj dksjvksyl ofl BkVj
I hfj i ksjvksll I cofeL i ksj vks jyoBk/kl
jyod 1/2 ds I kfk fol jfpr ckd fpII vls
xS&fol jfpr ckd fpII ds i oBk pkj i jsf, A vfkd
ylnh; u iz, kxkadsfy, fpII vls I Bkjh i Ofer fpII

ij vfkd I jki.k vls cgek= of) dsfy, fyfxuu ds
b"Vre fu"dkl u dk irk yxkusdsckn I okke dod
dkVj vksyl ofl BkVj V/hetVhl ofl BkVj 1/2 vls
jyod/kl jyod dk p; u fd; k x; kA

I i e i o/kz rduhd dk fodkl

- d{h; dyh I o/kz }kjk MVMksDykel
gSEkYVksk bz vls tkbxBVkDyks k , Vj dsfy,
Ård I o/kz i kS ksdh dk fodkl fd; k x; k gA
pkj I Irkg ea MVMksDykel gSEkYVksk bz ea 25 µm
vkbzch, - ds I kfk I Eijr ,e, I ehM; e ij
vuphyre ewkRifYk ; Fk&66-13% i ktr dh xbz
vls tkbxBVkDyks k , Vj ea ,e, I +35µm
vkbzch, - ij 47-67% ewkRifYk i ktr dh xbA
MVMks gSEkYVksk bz dh tMe) iknfdkvlka dks
I Qyrki d Bkhdh fd; k vls ckn ea {k-
jki.k grq gLrkrfjr fd; kA cEck k VVMk ds
Dyksuh; xqk ds fy, ,d I {ke I i e i o/kz
i kS ksdh fodkl r djsgrqHh v/; ; u fd, x, A
I okke iz, kl ka ds cktm ik=s tM+vkxeu dh
ckjckjrk cgr de gA ewkRifYk ifr'krrk c-kus
dsfy, iz, kx izfr ij gA ckd &cEck k cEck
vls MVMksDykel LVksh ds I i e idf/kz iknilds
dh vkuof'kd I R; rk dk v/; ; u djsgrqiz kx
tkjh gA

- vfkzd : i Is egroiwkz jSxLrkuh ikni
I YokMkj k ifl Bk ds I o/kz ds fy, Ård
I o/kz i kS ksdh fodkl r djsgrq I YokMkj k
ifl Bk ds i kdrd LVSMkdk I oBk.k fd; k x; k
vls tkki j i cykj k diMkz vls ckn [kqz i kyh
1/2 kV] I unjo vls judi j 1/2 vls tkys 1/2 MVMksk
, oal w zoj egkn efUnj 1/2 I sdYk dksd I k ds
: i ea dSUMMS/ /ku oBkka dk p; u fd; k x; kA
4-0 mg/1 ch, -ih+ 0-5 mg/1 ,u, -, - ds I kfk
I Eijr ,e, I ehM; e ij djhc 70 ifr'kr dyh
LQV vls cqi j k vlxu 1/2-3 i j k dYk d 1/2
i ktr fd, A



- pmu dk"B ¼ BVsye , Yce , y-½dsik=sid/kū] dBlghdj.k] Dyksu fd, iknika dsmRiknu vlsj {ks= ijh{k.k.ka dh LFkkiuk dsfy, ikv/kdlyka dks c<kus dsfy, v/; ; u fd, x,A ik=s ijksjka l s ,DI &foVts eny/kRi fYk ij vKDI uka vlsj buds l a Hekads i Hko ij v/; ; u fd, x,A ik=s l kFk gh l kFk ,DI &foVts eny/kRi fYk dsfy, l a Hekads l kFk vkbZch, - cgrj ik; k x; kA
- MS<ftz k yfVQkfy; k vlsj Vjkdki l l BVsyul dsmRd"V tuun0; dsmRiknu ds fy, l weid/kū ikv/kdly ds fodkl grq MS<ftz k yfVQkfy; k vlsj Vjkdki l l BVsyul ds mRd"V tuun0; ds viird l o/kā dh LFkkiuk dh xbA d{kh; dyh ipjknHkou dsfy, iz kx ixfr ij gā
- Ård l o/kū rduhdka dk mi; kx djds ik=s voLFkk dsrgr ,xkj ikni ds l xak rsy@rsy ?kvdkadksi fjr djusdsiz kl fd, x,A vc rd i Yth Ård dk mi; kx djds ,d l {ke dsyl vkxeu ehM; e ekudhd r fd; kA dsyl dk mi; kx djds dks'kdk fuyEcu l o/kū Hh LFkkir fd; k x; kA orEku eā bl dks'kdk l o/kū ea l xak rsy i fjr djus dsfy, iz kx ixfr ij gā
- , fDoyfj; k xqku ds fy, l we id/kū rduhd fodfl r djusdsiz kl fd, x,A xqj.kr ijksjka ea eny/kRi fYk ckjEckjrk c<kus ds iz kl fd, x,A
- Rkhu rjhdka ; Fkk& d{kh; dyh iLQWu ds }kjk] dsyl Ost ds }kjk viLFkkud ijksj vkxeu vlsj l h/ks d{k; d Hwkkshko] l s tVtQk djd'k ea ik=s i knfi dk l j puk gkfl y dh xbA i ks] ksdh dksfdQk; rh cukus dsfy, fuEu ykx r fodYi ka grqi f0; kvkadksvuqny cuk; k tk jgk gā



tVtQk djd'k ea ik=s iqtūu dh foHku foHk; k; ½d'z d{k; d Hwkkshko dh ixfr'khy voLFkk, a ¼ k'z ifjiDo xLFky [k.Mka l sd{kh; dyh iLQWu ¼x½ iYth 0; Billa dsyl l s viLFkkud ijksj iqtūu] vlsj ?k'z nr?kzr ijksj

Ård l o/kū l smxk, iknika d{k {ks= ijh{k.k

- tykb&vxlr 2006 ds njsku xqjkr ea ,d vlsj jktLFkku eansdty rhu LFkkua ea 5 eh x 5 eh ds virjky ij cEcl k cEckl vlsj MBM/Rdsykel fLVdVI ds Ård l o/kū iknika ds {ks= ijh{k.k LFkkir fd,A MBM/Rdsykel fLVdVI dh vlsj r Åpkbz ddkyx<+½djhc 4-3 eh½ dh vi\$kk ?kvvkM+½djhc 4 eh½ ea 10% mPp FkA cEcl k cEckl ds ekeysep vlsj r Åpkbz ?kvvkM+ea 50% mPp FkA ifr xye vusloubzukykaedHh bl hrjg ds#>ku n\$ksx,A ddkyx<+LFky dh vi\$kk ukyladh l ; k ds l mHZe ?kvvkM+LFky uscgrj of) dksvuqny cuk; kA yxHx rhu l ky ckn MBM/Rdsykel fLVdVI us 16% T; knk u; h yukadk mRiknu fd; k vlsj cEcl k cEckl us ?kvvkM+ea 74% T; knk ubzukyke xye dkmRiknu fd; kA
- fgeky; u ou vud'zku l bFku] f'keyk us 2006 l s 2008 ds njsku MBM/Rdsykel gbeYVksk bz ds 50 gDV\$ j ea Ård l o/kū l smxk, vlsj ruk dye mxk, iknika ds in'kū Hw[k.M LFkkir fd,A Ård l o/kū l smxk, ikni vkbZ, p-chVh] ikeyij dks miyCk dj, x,A uky yEckbz uky 0; kl] xkBladh l ; k vlsj ioHrjh; yEckbz ds fy, of) vqdMa l e; & l e; ij vffkyf[kr fd, x,A Ård l o/kū l s mxk, iknika dh mYkj tfor k ifr'krk 88 ifr'kr FkH tcf d ruk dye l smxk, iknika dh 95 ifr'kr FkA

2.4 वन प्रबन्ध

fogaxoyksdu

jktLFkku dsv/k&'kqd {ks= ea0; ki kfjd #i l s
egRoiwZ o{k çtkfr; ka dsuewik Hkfk.M r\$ kj djusds
fy, {ks= l o{k.k fd; k x; ka i nhzmÜkj çnsk dsegRoiwZ
o{k çtkfr; ka dh ekax vki firZ vürjky fo'yşk.k fd; k
x; k vksj v/; ; u dsifj.kke foLrkj l kexh }kjk fofHku
i.k/kkfj; ka ea l fir fd, x, A çdk'B bžku dk'B vksj
ckl ka dh 0; ki kfjd #i l segRoiwZ çtkfr; ka dscktkj
dher vkpMæ, d= fd, vksj **fVej, .M çbcwVM
cySVu^ 'kr'kd l s çdkf'kr fd; ka l kožfud {ks= ea
miyC/k thu vuøeka ds vkpMæ vk/kkj dks ou
mRi kn drk c<kusgrqtš l puk ykxwdjusdsfy, dke
eayk; k tk l drk gā ; wsfy l eadk'B l #i.k thuka
dsl edu Jskhdj.k vksj oxhžj.k ds }kjk bl fn'kk ea
vxrk çkr dh tk jgh gā yky plnu ¼jkdki 7
l wsfyul ½ ij vkpMæ vk/kkj fodfl r fd; k x; kj tcd
nonkj ¼ hM hM nonkj R/2 dš ¼ kbul okfyfp; kulR/2
vksj 0; ki kfjd çdk'B l puk ç.kkyh ij vkpMæ vk/kkj
çxfr ij gā ou jksx fokku l xgky; okfudh fopkj
foe'kz Okje ds fy, xfrdh vkpMæ vk/kkj okfudh
vuq l wku foLrkj dsfy, oš i kšy vksj yk[k mRi knu
ij th-vkbz, l-@vkj-, l- vk/kkfjr l puk ç.kkyh ds
fy, dEl; wjhdh vkpMæ vk/kkj fodfl r djusdsfy,
dke py jgk gā bl dsvykok l puk çkš kšxdh l ok, a
l Hh l l.Fkkuka dks miyC/k djkbz vksj j[kj[kko fd; ka
Hkjr h; okfudh vuq l wku , oaf'k'kk ij'kn-dh os l kbV
dk yxkrkj v | ru fd; k x; ka

fo'k; oLrq ds rgr i fj; kst uk, a

i fj; kst uk	o'kz ds nks ku i jh dh xbz i fj; kst uk, a	Tkkj h i fj; kst uk, a	o'kz ds nks ku 'k# dh xbz ubz i fj; kst uk, a
lyku	02	04	01
ckgj l s l gk; rk çkr	00	00	02
; kx	02	04	03

2-4-2- ou vFKZ kkl=

xkj [ki gj ds66 xkpk] egjktxat ds24 xkpk
nšfj; k ds45 xkpk vksj cLrh ds56 xkpk dks doj
djdsi nhzmÜkj çnsk dsegRoiwZ o{k çtkfr; kadk ekx
vki firZ vürjky dk fo'yşk.k fd; k x; ka l Hh pkj
ftyka ds fy, o{k x.kuk v/; ; uka ds }kjk oržku
o/žku LVkkl vksj ekx vki firZ vürjky fo'yşk.k ds
fy, vkpMæ dks fo'yš'kr fd; ka v/; ; u dsifj.kke
foLrkj l kexh ds }kjk fofHku i.k/kkfj; ka ea l fir fd,
x, A

l Ei wZ Hkjr ea p; fur çtkjkavksj jkt; ou
foHkx@ou fuxe fMi kš çdk'B] bžku dk'B vksj ckl ka
dh 0; ki kfjd #i l segRoiwZ çtkfr; ka dscktkj dher
vkpMæ, d= fd, x, A , d=r vkpMæ dks l d'fyr
djds **fVej, .M çbcwVM cySVu^ ds #i ea çdkf'kr
djds fofHku i.k/kkfj; ka ea l fir fd; ka

2-4-3- ou tho l kf[; dh

jktLFkku dsv/k&'kqd {ks=kaejksi .k {ks=ka dk
çkjfeHkd l o{k.k fd; k vksj t; ij] xakuxj] fl dj]
fcdukj vksj vkbZth, u-i-h {ks=kaemRi kn drk vksj tho
l kf[; dh v/; ; uka dsfy, 50 Hkfk.Mka dk p; u fd; k
x; ka çkl kfi l fl ufj; k rFk , yUFk l , DI Yl k
dsfy, tš yej vksj vkbZth, u-i-h {ks= eaHh Hkfk.Mka
dk p; u fd; k x; ka okāNr o{k'kads i kru dsfy, jkt;
ou foHkx l svuøfr ekax xbz gā xqjkr jkt; ea
l kxlš jksi .ka dsfy, of) vksj mit ekMfyax rFk
mRi kn drk v/; ; u ij dke 'k# fd; k x; k gā jkt;
ou foHkx l sjkt; ea l kxlš jksi .ka dk C; kjk ekax x; k
gā

2-4-3- l puk vksj l pkj çkš kšxdh

l Hh l l.Fkkuka ea l puk çkš kšxdh l ok, a nhj
oš l kbV dks yxkrkj v | ru fd; k vksj i kš'kr fd; ka
l mij l ošh] th-vkbz, l- vksj l puk çkš kšxdh ea f'k'kk
vksj ç' k'k.k fn; k x; ka nonkj ¼ hM hM nonkj R/2 vksj



dsy *1/ikbul okfyfp; kulh* ij l *pwuk c.kkyh ds*
fodkl dsfy, dk; *Zcxfr* ij gA ou vuq *akku l h.Fkku*
ds *jksfoKku l xgky; dsfy, dEl; wjhdr vkpMk*
vk/kkj c.kkyh fofdl r dh tk jgh gA

; wsfyVI dk"B l jpwuk ds v/; ; u ea tD
l *pwukvka* dk mi ; *ks djus ds nf"Vdlsk ds l kFk fuEu*
dk"B l *jpwuk thuka ds fy, Mh, u, - vupeka dks*
MkmuykM fd; k x; kA 4 l h, y- l h 3 , p] l h 4 , p 1]
l h 4 , p 2] l h, -Mh] l h-l h-vks, -, e-Vh] l h-l h-vkj-
CesA1, CesA3 l h-vks, e-Vh] bZ, DI -ih, -, u, l -vkbZ, u]
, Q 5 ,Pk] th, p- 17] th, p- 28] vkbZvkj-, DI - 3]
vkbZvkj-, DI - 5] , y-, -l h-l h, -, l -b] ih, -, y-, l -, -, e&1]
, l -, -, e-&2] Vh; wch; w, y-vkbZ, u-] , -l h-l h, -, l -b]
th, p- 17] th, p- 28] bZ, DI -ih, -, u, l -vkbZ, u-]
CesA2] l h-vks, e-VhA mi ; Dr thuka dsfy, l jf{kr
{ks-kavks} ckbej vfHkdYiu dh igpku dh xbA

yky plnu 1/ajkdki 1 l hVfyul 1/2 dsfy,
oE *vkpMk vk/kkj* fofdl r fd; k x; kA bl ea *oxhZdh*
nsh uke] vkdkfjdh] 'kjij] vkokl] cflr LFkku] o{k
l qkj] xqk 1/2 kjhfjdh;] Hkdrd] l akkjh vks jkl k; fud
xqk; mi ; kst u] i s/v] ifj; kst uk] fvdka i u l mfhkZdk
ds l kFk uk'ktho , oajkska dsckjseal pwuk 'kfeY gA
jk"Vh; vks vUrjkZVh; 0; kikj ij oxhZdr l pwuk]
l jdkjh fu; eA vk; kr , oa fu; kZ fu; ekoyh] voSk
dk; Zdyki vks fMiks ea dk"B dh mi yC/krk dks Hh
vkpMk vk/kkj ea'kfeY fd; k x; k gA

0; ki kfjd *cdk"B l pwuk c.kkyh ds* fofdl ij
dk; Zfd; k x; kA os l kbV dk ekMy vfHkdYi rS kj
fd; k x; kA cktkj dher] *cdk"B ctkfr; ka dh*
mi yC/krk vks mudsl kr dk irk yxkus dsfy, caxys

vks psubzcktkjadk l o{k.k fd; k x; kA psubzcktkj
eaorZku eachp oM] l liyh ykM] , sk oM] Mkd oM]
pjh oM] rkyh ykM] esykuk ykM] l kxkS] cnkd]
ouVhd] jcm+dk"B] fl Yoj oM] uhe dk"B] dkaq
oudkbZ vks eUl k dnEckbz mi yC/k gA blga teZdh]
vkbojh dk.V] oekZ Vksks ?kkuk] dk.Vkfjdk] vy
l YokMkj] iukek] nf{k.k vfYdk vks Hkjr ds vU;
jkt; kal syk; k x; k gA

jktLFkku vks xatjkr dsfy, okfudh foLrkj
gsqos iksZy fofdl r fd; k tk jgk gA depkfj; kadk
cf'k{k.k ij k dj fy; k x; k gsvks vkpMk vk/kkj dsfy,
{ks- dk p; u fd; k x; kA os l kbV dk vfHkdYi vks
fol; kl ij k fd; k x; kA oxhZd.j.k] ikfjLFkfrdh] ou
l w/kZ] _ rqt fofdh] co/kZ vks mi ; kst u fo"k; kadscjkS
ea ctkfrokj l pwuk dks vkpMk vk/kkj ea'kfeY fd; k
x; k gA 'kqd {ks- ds60 o{k ctkfr; kads vkpMks, d=
fd, vks 40 l svf/kd o{k ctkfr; kads vkpMscfO; k eagA

okfudh fopkj & foe'kZQkse dsfy, , d xfrdh
vkpMk vk/kkj fofdl r fd; k tk jgk gA vkpMk vk/kkj
l jpwuk dks vUre #i fn; k x; kA

Nk/kukxi g {ks- ea yk[k ij ikskh ifVV; ka ds
vuYh{k.k dsfy, th-vkbZ, l -@vkj-, l - ds mi ; ks dk
v/; ; u fd; k tk jgk gA ij ikskh o{k kads vk/kkj ij yk[k
ij ikskh {ks-kads ctkfr LFkku i s/vZdh tkp dh tk jgh gA
yk[k mRi knu vkpMks Hh ctkr fd, x, A bl cfO; k ds
}kj k yk[k mRi knu eanckokadh igpku dh xbA dN
{ks-ka ea vR; f/kd xeZ vFkok 'khr] tuuyk{k dh
vuq yC/krk] l gk; rk dk vHko] yk[k [krh dh mlur
fof/k; kai j cf'k{k.k dsdkj.k yk[k mRi knu dsfy, yk[k
ij iksk; kadk mi ; ks ughafd; k tk jgk gA

2.5 काष्ठ उत्पाद

fogaxkoyksdu

dk"B] bl dsl 2kVdka vlsj dk"B mRi knka ds {ks= eaorZeku v/; ; u dk mnas; ; mi yCk dk"Bh; , oadk"B dks kdf/od dPpsinkFkZ ds gj vak dk mi; kx djuk gA orZeku vuq U/kku jki .k cdk"B ds mi; kx dju\$ dk"B xqkOukk eW; ka du ds fy, , Q Vh&, u vkbZ vkj vlsj vYVKI kaud ds mi; kx] dk"B l rgladk mudk LFkdf; Ro] fVdkAiu vlsj l rg xqkOukk c<kus ds fy, ifj"dj .kj cdk"B 'kqdu dh ubz fof/k; ka dk fodkl fonst vlsj vk; krr ctkfr; ka dk mudsfVdkAiu vlsj mipkfrk ds fy, ijh{k.k] l rg dksVax c.kkfy; ka dk fodkl] fofHku xkSk ou mRi knka eafij {kd , oafyfxud ds# i ea ikni l kjk ds mi; kx ij dshnr gA

jki .k cdk"Bka ds cus l xhr midj .ka ds c'n'kz@mi; qrrk dk eW; ka du djus ds fy, ijh{k.k l fp/kk, a fodfl r dh xbA dukVd vlsj egkjk"V" l s l kxkSu dso {k&oy; fo'ySk.k 1/6 {k dkyku d fedi 1/2 ij v/; ; u fd; k x; kj tks , d u; k vuq U/kku dk; Z g\$ ft l us l vkk o"kkz ckM+o"kkz dhV vkOe.k] vx fu'kku vlsj tyok; qeafijor Zukadsl kfk ctkfr; ka dk vuqnyu dktkus ds fy, vPNh {kerk fn [kkbA

dk"B pwlZdkjh Hkd ds fo#) cdk"Bka ds fVdkAiu dk eW; ka du djus ds fy, c; kx'kkyk ijh{k.k dh fof/k dsekudhr fd; ka uYyky] ikykM+gNjckn] fo'kk [kiVVue] tkski g] tcyig vlsj nsjknw eadod vlsj nhedka ds fo#) chl fofHku vk; krr cdk"B ctkfr; ka dks mudsfVdkAiu ds fy, eW; ka dr fd; ka nsjknw eafofHku mnxeLFkkukads; kmZ ijh{k.k ea l Hkh ctkfr; ka ij vLVfy; u l kxkSu dks NkM+j dod vlsj nhedka }kjk l kkkj .k l shkjh vkOe.k fd; k x; k FkA

dod vlsj nhedka }kjk {k; ds fo#) jki .k cdk"B dh vkB ctkfr; ka dks mudsfVdkAiu ds fy, eW; ka dr fd; k x; ka 10] 15 vlsj 20 o"kdz, - eUM; e cdk"B dks Jskh I dsrgr oxhr fd; k tk l drk g\$ tcfid ikp l ky okys Jskh II dsrgr vkrs gA ; dlyIVI Vj fVdkMUI usdod }kjk {k; ds fo#)

vPNk cfrjkk n'kkz k 1/2 Jskh&1/2 xbf0; k jkkZ Vk Jskh III l s l ebfkr gS vlsj , e- Mfc; k x\$ & cfrjkk Jskh 1/2 v 1/2 dsrgr vkrh gA

dN vk; krr dk"B ctkfr; ka dk mipkfrk eW; ka du Hkh fd; k tk jgk gA Rofjr ijh{k.k kadk mi; kx djds ijh{k.k l kr cdk"Bka V/DVksuk xUMI] 'kksjh; k jkkZ Vki] 'kksjh; k ekdk Vhj k] 'kksjh; k ctkfr Vjkdki l k; MDI] Mk; ksyukM ctkfr vlsj tkbfy; k Mksyfc QkM e l 1/2 T; knk fVdkA ik, x, A ifj {kdka dk mi; q r /kkj .k nus ds fy, mipkfr djus eadfbu ctkfr; ka ds mipkj grq fofHku mipkj vf/k'kl u dk fodkl fd; k x; ka fVdkAiu l kkkj ds fy, ckdfrd mRi knka l s ikfj & vuqny ifjj {kdka dk mi; kx; ka

ou vuq U/kku l fFku] nsjknw eakW/yj ds fy, 70% l s, Q-, l -ih- l suhpsrd ds fy, , d nks Lrjh; rkieku fuokZ l kj .kh fodfl r dh xbA Atiz vlsj ykx cpr cgr mPpsgSt\$ k pkj & pkfyr 'kqdu ds fy, g\$ vkid dks [kkyh 29 ?k. Vkadfy, pykusdh t#jr gA , Q-, l -ih- ds uhs c\$ {kr ueh ek=kvka ea ?kVko l okke rkieku fuokZ l a kst u eackj fHkd eku dk 29% FkA nW jsc; kx eal kxkSu ds fy, 50% dh jat l s, Q-, l -ih- ds uhs rd ds fy, , d rhu Lrjh; rkieku fuokZ l kj .kh fodfl r dh xbA Atiz vlsj ykx cpr cgr mPp gSt\$ k bl fof/k }kjk 'kqdu ds fy, g\$ vkid dks ikj Eifjd rki m'er vkidka dh rnyuk eacgr vYi l e; ds fy, pykusdh t#jr g\$ h gA , Q-, l -ih- ds uhs c\$ {kr ueh ek=kvka ea ?kVko l okke rkieku fuokZ l a kst u eackj fHkd eku dk 33% FkA

, d dlo\$ j cyV ekbOks 'kq d c.kkyh dh jpuk djds dk"B foKku , oack\$ kx dh l fFku] caxys ea LFkfr fd; k ft l s ekudhr fd; ka ekbOks rduhd j\$kk l arflr fclng rd dk"B 'kqdu grq vi\$kkdr rst fof/k fl) gA bl dk cdk"B dsl akjh xqkka vlsj ifjj {kd mipkj ij dkbZ udkjRed cHko ugha gA ekbOks 'kqdd dk mi; kx djds cl



mipkfjrk ds fy, yky] ihyh vls I Qn ehjklrh dk eW; kadu fd; k I Qn ehjklrh vkl kuh I s mipkj ; k; Fkh vls bl sJskh *, ^eaoxhbr fd; k x; k tcf d yky dks Jskh * I h vls ihyh dks Jskh * Mh^ eaoxhbr fd; k x; kA Mxyl Qj vkl kuh I smipkj ; k; gA

mipkj dsfy, dfBu ctkfr; kadsmipkj gsq bcko] xje i kuh eaMcko vls fol j.k vkn tS h fofHku mipkj voLFkkvka }kjk vyx&vyx ifjj{kd mipkj I kjf.k; ka fodfl r dh xbA ncko mipkj bl ds ckn fol j.k dh fof/k; ka us fofHku ifjj{kdka ds I kfk i ; klr /kij .k %pkjk I a kst u %fn; kA

uhe i fuk; ka I si FkDdr ehFksukly vls xje ty fuLl kj dka us vf/kdre I feeJrk ; Fk 34-24% fn; kA ehFksuklyd fuLl kj d us 34-24% dklj 1/2 I feeJ cfn'kr fd; k tcf d xje ty us 48% ?k. Vsij dklj 1/2 ds 22% I feeJ dk cfn'kr fd; kA ekYV , xkj tS fo'y sk.k ij .kka us Hkjsofoxyu vls I Qn foxyu ds fo#) cgr fuEu I klnrk ; Fk 0-002% ij nkska I feeJka dh cHkoi i kndrk dks mn?kVr fd; kA eSy xje ty dklj dI vls eSy ehFksuklyd dklj dI ; kx'kryk eadk'B {k; dkjh dod ; Fk Hkj foxyu , oal Qn foxyu ds fo#) cgr cHkoi k , x , A

, d f'k; k eSt; e] xhfoyh; k jktV Vkl 'kjh; k jktV Vkl MS cftZ k fl LI j VDVksk xSUMI vls eixQjk bMdk dsdk'B eavYVRl kSud xfr ij ueh ek=] j sk fn'kk(nkska % k kkyki u % ds cHko dk v/ ; ; u fd; k vls , d I aUk fodfl r fd; k tsknkska dks [kstus ea Hfo"; ea I gk; d gkskA , d f'k; k eSt; e] xhfoyh; k jktV Vkl 'kjh; k jktV Vkl MS cftZ k fl LI j VDVksk xSUMI vls eixQjk bMdk ds I keF; Z xqka 1/4 e-vksbZ, e-vksvkj-, y-i-h-ij , Q-, I -1/2 dk ikj Eifjd tko fof/k }kjk v/ ; ; u fd; k x; k vls vYVRl kSud fof/k }kjk ckr ekuka ds I kfk I gl aUkr fd; k x; kA nsk dk irk yxkus ds fy, [kMso{ka ij vYVRl kSud rduhd dk ijh{k.k fd; k x; kA

vYVRl kSud }kjk mi ; kx eadk'B vls dk'B mRi knka dseW; kadu dsfy, nls jsv/ ; ; u earhu {k- Hke.k fd, x, vls duk d dscrtkj eafu/kljr ; ; Dp dk'B vls dk'B mRi knka dk'Bh; yVBka vls dk'Bh; I jpkuk dk irk yxkus dsfy, folr I o{k.k fd; k



nks [kst dsfy, [kMso{ka ij vYVRl kSud rduhd x; kA 1/2 dk'B ; MZ I o{k.k & 6 vjk e'khu I o{k.k & 6] Lo&LFkus I jpkuk I o{k.k & 6 1/2 ; ; Dp dk'B vls dk'B mRi knka dks [kjnk x; kA Lo&LFkus I jpkuk vka dk'B mRi knka dh igpu dh xbZ 1/4 0/1 vki fkd ?kuRo 1/3 0/2 vls LFksrd cadu 1/3 0/2 ijh{k.kka ds fy, vkbZ, I - 1708&1986 ds vuq kj uewrs\$ kj fd, A

mMh k I sckr , d f'k; k eSt; e ij fd, x, v/ ; ; uka us n'kz k fd cdk'B fofeyh; #i I s , d I leku gS vls bl s MS cftZ k fl LI w vls , fMuk dklM Dksy; k ds I kfk I eigr fd; k x; k gA 80% ckj fHkd ueh ek=k I s 18% ueh ek=k ckr djus ds fy, 47 fnu ds fy, fujkntdkjd vki kd ea



cdk'B dks I qkk; k x; kA , d f'k; k I scuh dq lz I Hh o{ka dsfy, 'kjh fjd; xqka ij v/ ; ; u ij sfd, x, A I ahMu] LFksud cadu] dBksrkj dkrj .k] ruu vls dhy , oal O w/kj .k tS sl akjh xqka dks gfjr vls 'kjd voLFk eaew; kdr fd; kA fVdk i u v/ ; ; u ds fy, uYkyk eai fjj{kd uewkdh LFki uk ijh dh xbA



{kfr dh l hek dk v/; ; u djusdsfy, l e; & l e; ij fujh{k.k fd; k x; kA çdk'B dh fofHku glr f'kyi dk; Z xqkoUkk dsfy, tkp dh xbzvls mrdh.ku] [kjkn vkfn dsfy, mi; Ør ik; k x; kA

/ofu vo'kksk.k xqkad ij , stMjDVk bMdkj ; wfsyIVI VjSvdMkUz] xhfoyh; k jkUqVkj ehfy; k dEikftV rFkk VDVksk xBMMI eafofHku dk'B iSkehVjka/3 k fn'kk , oaekS/kbzdsçHko vls /ofu vo'kksk.k xqkad dk fu/kkj.k fd; k x; kA l Hk çtkfr; ka ds 'kkjhjdh; , oal keF; Zxqkka dk Hk fu/kkj.k fd; kA Hkouka ea iSfyak dsfy, /ofu jksku inkfLz ds #i ea mi; kx grqç&ijEijxrk çdk'B çtkfr; kadsp; u ea /ofudh; xqka ij lfr vkpM+ l gk; rk djakA 0; ki kfjd #i l smiyCk 3 ok | ; a-ka/oh.kj ok; yhu vls <kyd½ ij vkpM+l fr fd, A 0; ki kfjd #i l smiyCk ok | ; a-ka }kjk lfr ckjEckjrk LiDVe ij 'kkjhjdh; iSkehVjka, oal keF; Zxqkka dsçHko dk v/; ; u fd; kA jki .k çtkfr; ka l soh.kk vls <kyd rS kj fd, A ok | ; a-ka }kjk lfr ckjEckjrk LiDVe ij çklr vkpMka dks fo'yS'kr fd; k vls ckjEckjrk LiDVe , oa vknZxqkka i j vk/kfjr ok | ; a-ka ds fy, çtkfr; ka dh mi; Ør dk irk yxk; kA ifj; kstuk l eku fjiksZ fu/kh; u , tã h dksçLr dh xbA



Ok | ; a-ka dh tkp ds fy, <kpk

dk'B foKku , oaçkS kSxdh l h.Fkku] çaykS ea , d ekbØkos 'kdd ç.kyh l jfpr] LFkfr , oa ekudhr dh xbA vyx&vyx ekbØkZ vls l e; ds l kfk fl Yoj vkd] ; wfsyIVI] l kxk] jcm+dk'B vls esykbuk vkckjh; k ds mi pkj dk v/; ; u fd; k x; kA ekbØkos mi pkfjr vls vuq pkfjr dk'B ds 'kqdu 0; ogkj dh ryuk dk fo'ySk.k fd; k x; kA fl Yoj vkd vls ; wfsyIVI dh fdj .k dks'kdk ½ sl S½ 20 feuV ds

fy, ekbØkos mi pkj }kjk QVrh gØZ ikbz xbA l Hk ikp çtkfr; ka ds fy, ekbØkos mi pkfjr vls vuq pkfjr dk'B ds fujknhdj .k 'kqdu dk y{k.k o.ku fd; k x; kA jcm+dk'B fl Yoj vkd] l kxk] dk'B vls esykbuk vkckjh; k ds mi pkfjr ij ekbØkos mi pkj dsçHko dk eW; kadu fd; k x; kA ; g çf{kr fd; k fd jcm+dk'B uSt; knk ueh dks [kS kA 2 bap ekb/sr [rkai j dk'B ds 'kqdu ij ekbØkos mi pkj dsçHko dk v/; ; u fd; k x; kA ekbØkos mi pkfjr uewka ds Hksrd , oal akjh xqkadk eW; kadu fd; k x; kA eaykS vls ou foKku dñz çaykS ea dk'B fu; krdka , oa vk; krdka ds l e{k ekbØkos 'kqdu çkS kSxdh dk çn'ku fd; k vls mlgat kudkj nh xbA

ch-vkbZ, l - ekudka ea 'kfeY djus ds fy, pfr.ky Hkxdk ds fo#) çdk'Bka ds fvdka iu ds eW; kadu grqç; kx 'kkyk i jh{k.k dh fof/k dksekudhr fd; kA Nndkadsfo#) jki .k çdk'Bkadsfvdka iu dk v/; ; u djus vls tkp dhvka ds #i ea ydVI vfYdsul vls fl ukst kbykU dMuthje dso; Ldkavls yokl dks ç; Ør fd; k x; kA Hkxdk ds fo#) ehl kfl l bfeuh] ghoh; k çf fy, fu l] xhfofy; k jkUqVkj , ds'k; k eSt; e] ehfy; k Mfc; k vls , ds'k; k vkMj dnyhOkMl dsçkdrd fvdka iu dh tkp dh xbA uhe mri knal h-, u-, l-, y- Mkb l kDI hye ekykçjde] DyhLVBFkl dMlyul l sful kjdk dhvuk'kdk Dyk i kbfjQst vls bfeMDyki fjm vls o{k cht] ryla ds l kfk mi pkfjr dk'B dks , y- vfYdsul vls , l - dMuthje dso; Ldk, oaykokZ dsfy, vukor djdstkp dh xbA

ou vuq U'ku l h.Fkku] ngjknw ds l kfk l g; kx djds Hkjr; dk'B dhvka ds fy, , d oS vk/kfjr vkpMk vk/kkj] Hkjr; dk'B dhv vkpMk vk/kkj ½/kbZMcy; wkbZMh½ fofdr fd; k x; kA fofHku vuq U'ku l h.Fkku fo'ofok | ky; k Hkjr; çk.k foKku l oS.k.k , oaHkjr; ouLifr l oS.k.k ea jk'vh; l xg ea dhv l xgky; ka dk Hk.k fd; k vls dk'B dhvka dks



1/2kdj 19 fe-eh x 19 fe-eh x 19 fe-eh/2dks{ks= voLFkkvka dsrgr vukor fd;k x; kA {ks= voLFkkvka dsrgr buds l ok dky dsew; kadu grqvko frZc{k.k cxfr ij gA

, d hfVyhj.k , oa cAt hyhdj.k dh vfHkFØ;k voLFkkvka ij ifj"dr dk"B lrg dk;Z ea ysi u ds çn'kZu dsv/; ; u dsç; kl eakudhdj.k fd;k x; kA çkdfrd vi{k; .k dsfy, LVSMka dks vfHkFØYir djds l jpk dh xbA 10&15% dh vks r Hkj çtkfr; kadu l kfk jcm+dk"B vks ikbul jSM; kVv ds jkl k; fud #i ls ifj"dr dk"B isy %styhdr vks , d hfVyhj.k r\$ kj fd, x, A ifj"dr vks vijLdr dk"B isy ka dks ikj'n'kZ vks vijkn'kZ i klyh; ijHksu , Dl vifj; j i bVka l syfir fd;k x; kA yfir vks xj syfir isy ka dks vi{k; u dsfy, vukor fd;k vks vi{k; u voufr dsfy, uewkadh tkp dh tk jgh gA ; woh-vo'kkskadh tkp vks [kjhn ijh dh xbA

ni js v/; ; u eA vKvskWY vks yk;k; y DykjbM+ dk mi; kx djds dk"B dk jkl k; fud ifj"dj.k fd;k x; k vks vfHkFØ;k ij kehVjka dks b"Vrehdr fd;k tk jgk gA , Ydsyhu biki kbM] ; Fkk&çki hyhu vKv l kM vks C; whyhu vKv l kbM dk mi; kx djds dk"B ds jkl k; fud ifj"dj.k ij vk/kjHkr ç; kx fd, x, A , Q-Vh-vkbZvkj- , oa , u-, e-vkj- Li bVka dks h dk mi; kx djds bLVjhdr@bFkjhdr dk"B dk y{k.k o.kZu fd;k x; kA

jkl k; fud ifj"dj.k }kj dk"B lrga ds vi{k; .k xqkka ds ldkj ds fy, Qhukby vkbl kFkvksus/ dk mi; kx djds vk/kjHkr ç; kx fd, x, A Qhukby&vkbl kFkvksus/ ifj"dr jcm+dk"B ds foeh; LFkk; rRo} {k; çfrjksk vks l k/kj.k LFkk; rRo dk v/; ; u fd;k x; kA ifj"dr dk"B uewkausvPNk foeh; LFkk; rRo , oa dodh; çfrjksk çnf'kr fd;k; fdUrQ Qks/k&i hru dks?kVkuseaçHkoh ughaFkA

2-5-5- य़्खन्ह व़्क्ष् द्ख्त

b"Vrehdr voLFkkvka ea so₂ xS çokgr djds r\$ kj fey I vks fey II ls ifj"dr dk"Bh; mRi kn dks buds jkl k; fud l a kst u dsfy, fo'ys'kr fd;k vks fo{ki h , t@ik; l hdkjd vks , d rsy dya ka osku ; kst d ds#i eal Hkfor mi ; kx ds#i eai FkDdr fyfxuu dsfy, foyk; d dsrks ij buds çn'kZu grq tkp dh xbZ; g ik; k x; k fd nksukafeykads l kM Li bV Cyd fydj l scusfyfxuu l kfk gh l kfk ifj"dr fyfxuu mRi kn] nksukafeyka l sfyfxuu dh rgyuk ea 900 fm-l s rd mPp rkieku ij T; knk l Fkj gSD; kad nksukafeyka ds ifj"dr fyfxuu dsekeyseavkbZi hMh-Vh- eku T; knk gS tk mPp rkieku ij /khesvi?kVu dksn'kZ rsgvks budk mi; kx ogka gk l drk gS tgl; mPp l pkyu rkieku dh vko'; drk iMfh gA tgl; rd i FkDdr fyfxuu dsfy, foyk; d ds#i ea buds mi; kx dk l aU/k gS nksukafeyka l l kM Li bV Cyd fydj l s ifj"dr fyfxuu dk mi; kx] vksZkd k'o yqnh; u fo'kstdj ç{kkyu ds nksku yqnh j'skka ea fyfxuu ds vo{ki .k l sikj ikus dsfy, , d ; kst d ds#i eafd; k tk l drk gS fdUrq fey II l s b"Vrehdr voLFkkvka ft l dsrgr mRi kn r\$ kj fd, x,] dsvUrXr ifj. kke çgrj gA ekud fol tZ l a; k 1/4 l -Mh, u-1/2 eadeh ds l nHZeafos{ki h , t@ik; l hdkjd ds#i eami ; kx ds fy, nksukafeyka l sr\$ kj ifj"dr fyfxuu uewkadh tkp usn'kZ; k fd budk mi; kx jcm+m | kx eacald ds#i eagls drk gA nksukafeykads l kM Li bV Cyd fydj l s ifj"dr fyfxuu u\$ rsy dya ka {ks= j l k; uka ds fy, fofunZk ds vuq kj HkSrd vfHky{k.kka ; Fkk&HkSrd LVs] ueh ek=k , oa ty foys rk dks ikl dj fy; kA ; | fi çR; {k 1/2 vks mRi kn fclhq 1/4 bs@100 oxZQH 1/2 ds l UnHZeano çokfgdh xqk nksukafeyka dsfydj l s r\$ kj ifj"dr mRi kn kkaea?kVkj fdUrq; g okN'r fofunZk ds Bhd vu#i ughagls dka

2.6 अकाष्ठ वन उपज

fogakoyksdu

Hkkjrh; okfudh vuq U/kku , oaf'k{kk ij'kn~ds v/khu l hFkkuka eal o{.k.k] tD [ksh cks] ksdh dsfodkl mi; ksrk ifjo/kz cfD; kvka dsfodkl l fgr budh Ql ykijar cDe.k] tD l fD; rk eW; kadu] ckdfrd ctkfr; kads l kfk ou l ef) dj .k ds }kjk i ksk.kh; cclU/k , oal d kku fodkl ij /; ku dsUhr djds vksk/kh; i knika ij 'kksk dk; Zfd; k x; k gA txyh [kk] , oavU; mi; ksh vdk'B ou mit dsjkl k; fud ckskbfya ij /; ku dsUhr djds vuq dku v/; ; u fd, x, A buds }kjk mRi knr ol h; rskadsjkl k; fud fo'y sk.k l fgr o{k tfur rsy chtkai j Hh vuq U/kku fd; k x; ka ij'kn~ l hFkkuka ds vf/kdkj {ks= ds rgr fofHku jkt; ka ea TkVksQk djd'k dsfoHku mxelFkyka, oadyskads xqku ij h{k.k fd, x, A fofHku xj & cdk'B ou mRi knka dk buds; ki kfjd mi; ksh grqcfD; k, afodfl r djus dsfy, jkl k; fud fo'y sk.k fd; k x; ka vksk/kh; i knika l fgr fofHku xj cdk'B ou mit ctkfr; kads jki .k inkfz mxk, vksj fd l kuka eabudh [ksh dks cks] k fgr djus dsfy, vki firzdh xba

fo"K; oLrq ds rgr ij; kst uk, a

ij; kst uk	o"K ds nks ku ij h dh xbz ij; kst uk, a	tkjh ij; kst uk, a	o"K ds nks ku 'kq# dh xbz ubz ij; kst uk, a
lyku	9	20	12
ckgj l s l gk; rk ckt	5	17	1
; kx	14	37	13

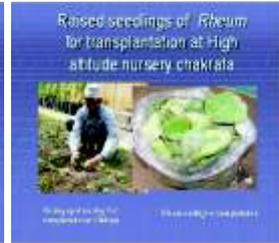
2-6-2- vdk'B ou mit dk l d kku fodkl

Rkqyl h 1/4 vksl ee l DVe 1/4 'krkoj 1/4 Lijxl j d hks l 1/2 vksj l i kU/kk 1/4 jkksYQ; k l i BvkbuR dh tD [ksh fodfl r dh xba mUkj k[k. M eaegroi wlvksk/kh; , oal jfHkr i knika dh 49 ctkfr; ka

dks ctkfor djus okys 65 jkska dh igpku dh xbz ft l eal s28 u, jks gA



Lk{.k LFky dk fodkl



g; e vLVyh



cftu; k fyxykV



fi Dkjktk dij k k



os/hj; kuk okfyph

l okke dheks/kbika dh igpku dsfy, ogr l o{k.k rFkk i k/kQkbye gDI kUMe jk; y ds , DI & l hVw l j{k.k dsfy, fgeky insk rFkk tEw d'ehj] 1/4 ynakk[k ?kVh/2l sikt r fd; A



f=yksdulFk 1/4 g-i 2/4 ea i k/kQkbye gDI BME v/; u



फुल, यो, ल गेकप्ये इन्सुवा
फि ठेकित्त दजि क व/ ; ; उ लफ्य

fgeky; u ou vuq akku l hFkku ea fofHku
i ksk' kkykvaevrh' k ¼ dksuVe ghVhj kQkbyek½ vks
pkjk ¼ Uthfydk XywdR½ ds xqkoUkk jki .k i nkFkz dks
xqj. kr fd; kA 3-6 yk[k i kskkaea l sdjhc 2-70 yk[k i ksk
[ksh vks vks l w/ku ds fy, fofHku vflre
mi HkkRkvkaeaforfjr fd, x, A fi Økj kb tk dj k k
jkW yh ,DI csk vks osyhfj; kuk tVkekd h tksl ds
vkcknh eW; kadu vks mRd"V vkuof'kd LVkkl dh
igpku djus ds fy, l Ei wkl mUkj & if'pe fgeky; ka
½gekpy cnsk vks mUkj[k.k.M½ ea l hFkku vks bl ds
uSodZl g; ksh }kjk xgu l o{k.k fd; k x; kA



f'kyk: i ksk' kkyk ea vfr' k LVkkl



cl/kj] eukyh ½g- iz/ea if'k(k.k dk; Øe

ftokSV; k jkW yfj QMbe l fxQ] e/kpk
bfUI fxul ½MYd½ , p-tye] 'kkjh; k Vlicwb; k
jkW l c] i ks fl ykb; jkkl bfUMdk csl] gki h; k
i fo] ykj k csl] ehl w k Qjh; k , y vks cysukbfVI
jkW l c?kkbzlytp o{k ctkr; kadschtka l sol h; rsyka
dk fu" d" k fd; kA ; g vHh Hkh cxf r ij gA

ced[k ckl ctkr; k&cEcl k cEckl] cEcl k
U; wU l] cEcl k cYdtk] cEcl k i kfyMK] cEcl k
VwMK] M&MkdSykel , Li j] M&MkdSykel
ckfUM l h] M&MkdSykel gbeYVksukb] M&MkdSykel
LVkkl h] M&MkdSykel fLVdVI vks xq Mqk
vax l Voksy; k ds co/ku] df'k okudh ekMlye l g{W]
cØe. k vks mi; kx ij vofLFkr cxf r ij gA

l e) dod dh igpku dh xbZvks vl e dsN%
ftyka ½t k j gkV] fl cl kxkj] xksy?kV] ukxka] rst i g
vks #jy dke#k½ ea , fDoySj; k esy l hfUI l ea
, xkjoml dksck l kfr djusdsfy, df=e rduhd ds
ekudhdj .k grq, xkjoml l jpk ea tyok; qvks enk
dkj dksckHko dk v/ ; ; u fd; k x; kA



Ⓟ , xkj o{k jki .k

Ⓢ l Øfer , xkj o{k l siFIdr
dodh iztkr



'kqd yo.k çHkfor enk ea nl l ky ds l YokMkj k ifl Zk dh of) vks mRiknu ij mojd mi; lsk ds çHko dk vl/; ; u fd; k x; k vks Qy mRiknu dks c<kus ds fy, ftad mi; lsk nsk x; kA xkxy dk çn'ku ij h{k.k vks d'k ij h{k.k çxfr ij gA

vle dh yqr tutkfr ea ikni l a k kuka ds nskh Kku dh [kst vks izy[k i ksk.k fd; k x; kA

fgekpy in'sk ds fdllus ftys ds yskka }kjk iz qr 110 takyh [kk] i kni kadk izy[k & i ksk.k fd; k x; kA

fokhuu cktkjka l sxj çdk"B ou mit vks vks/kh; 'kkdadsdy 300 uews, d= fd, x, vks mu cktkjka ds; kjs dks n'kkzsgg vkqMk vk/kkj dk i ksk.k fd; k tk jgk gß tgk l s>kj [k.M jkT; ea xj çdk"B ou mit [kjhsx, A

I Qyrk dh dgkuh

ou vuq Uku l a.Fku earhu egRo i wk vks/kh; , oal jfHkr i kni ka; Fkk&ry l h %vks hel l DVel' 'krkoj ¼ Lijxl j d hekl l ½ vks l i zakk %j kkkSYQ; k l i DVkbur½ ds fy, [ksh çk/kd kly fodfl r fd, x, A

- Øe'k%12-5 Vu çfr gDVj vks 6-25 Vu çfr gDVj dh nj ij vlxud dEi k.V ¼ Q-Øgkbz, e-½ vks ofeZ dEi k.V %h½ fe.J. k ds l kfk mojd r ry l h [ksh us564 fd-xk çfr , dM+mPpre 'kkd ry l h 'kqd mRiknu fn; kA 'kkdh; pk; ds# i eavks vk; qn eami ; lsk ds fy, ry l h i fuk; kadh Ql y dVku ds fy, rduhd kadksbl dso/kku ek e ds nks ku pkj xpk fd; k tk l drk gA
- vlxud dEi k.V , Q-Øgkbz, e- vks ofeZ dEi k.V ds l kfk 12-5 + 12-5 Vu çfr gDVj dh nj ij jki .k LFky dk mojd ds 20 efgusea çfr , dM+3000 fd-xk 'kqd tMard 'krkoj dk mPp mRiknu gfl y fd; k tk l drk gA
- QkeZ; kmZ [kn vks ofeZ dEi k.V 12-5 vks 6-25 fe-V- çfr gDVj j ç; qr djds 20 efgusea tM+dyeka }kjk mxk, i kni ka l çfr , dM+372 fd-xk 'kqd tM+rd l i zkk dk mPp mRiknu çkr fd; k tk l drk gA
- iÜh [kji rok dk mi; lsk djds iyokj Mkyuk ?kkl ikr dk fu; æ.k djus vks ueh l jf[kr djusea Hk çHkoh gA fodfl r rduhd Fkk/h Hke l sviuh vk; c<kusea Nks/vks ea kys d'k dka ds fy, cgr mi; lskh gA

2-6-3- i ksk.kh; Ql y dVku vks çdu/k

vks/kh; i kni ka ; Fkk&cfttu; k fyxykVkj fi Økj kb tk dj k k] osyhj; kuk okfyph vks g; e vlLVyh dh xj fouk'kd Ql y dVku rduhd fodfl r dh xbA mukjk [k.M jkT; ds 3 çkdfrd ou {k= ea ekb Øk Vkbfy l okfyph dh Lo&LFkus l a kku of) ds fy, {k= ij h{k.k fd, x, A mri kn drk vl/; ; u çxfr ij gA

vks/kh; i kni ka mnkj.k&, UMksçfQl i fudykVkj , Lijxl j d hekl l] Dykj k ØkbVe

ckj fofy, ue , oafpjksh Qy] çdkufu; k yat u ds i ksk.kh; Ql y dVku dk vl/; ; u fd; k x; kA vl l h ifr'kr , UMksçfQl i fudykVkj 60% , Lijxl j d hekl l vks Dykj k ØkbVe ckj fofy, ue dk Ql y dVku iqtzu dks çHkfor fd, fcuk i ksk.kh; fl) gvkA çdkufu; k yat u dk iqtzu 90% Qyka ds dVku ij Hk vçHkfor ik; k x; kA

çdkufu; k oghxkVkj gksykj ghuk , fUVMkl hfUVdkj vks k h ye bñMdk l kjkdk vl kadk vks vfeZfy; k vtuk dso{k ruš 'kk [kk]



Vguh l s Nkyk i fuk; k Qy k t Mla vkn dh i sk.kh; QI y dVku fof/k; k; Fkk&i VVh QI y dVku] oStfyid QI y dVku vS foi jhr QI y dVku dsfofHku mik; kads ekudhdj.k dsfy, c; kx 'k# fd, x, A

xqkOUk ukyka, oa[kk] cjksgkadsf/kz mRi knu gsrqvkfkd #i l segRoikwzckd ctkfr; kadsfy, xte cclU/i) fr; kade fodkl fd; k x; kA

rfeyukMq vS djy jkT; ka ds egRoikwz xS&cdk'B ou mi t dscht l pkyu vS/kh; ikni kads cht l pkyu vS tVQk djd'k dh QI yki jkr rdudhkd i k.Vj k i EOys/kavS c'k(k.kkadsek/; e l s c l kj fd; kA

vrh'k vS pjk dh [ksh ij l k/kj.k fglnh ea nksi EOys/ vS, d i l rdk vLre mi HkD rkvkadsykh dsfy, cdk'kr fd; k vS ykHkFkz kaeforj.k fd; kA

2-6-4- vdk"B ou mi t dk j l k; u] mi ; kfxrk i fjo/kU vS mi ; kx

vS/kh; iknika ; Fkk& , Lijsl jk hekl l jkHkSYQ; k l i Vvkuk] foFkfu; ka l kSEuQj k] , dksuVe ghVhj kQkbye vS fi Qkj kb tk dj k k ds fy, vk; pnd vS vk/kud nkska fo'ySk. kRed fof/k; kads vi ukdj fofHku Hk.Mkj.k voLFkkvadsrgr Hk.Mkj.k ds 12 efgus ckn rd ds fy, l f; rRo@jkl k; fud fo'ySk.k fd; k x; kA

of) dh 3 voLFkkvkae] tS & i qi .k l sigy] Qy vkxeu ds Bhd l e; vS iwkz f[kyh voLFk ds nksku] Fkhe l i hze l sl jfkr rsy dsfu"d'kz vS bl ds ?Vd dk v/; ; u fd; k tk jg gA cjkfHkd ifj. kkeka us n'kz; k fd rsy cfr'kr taxy vS d'V ikni ea T; knk fHku ugha Fk fdUrq Fkhesy vS vU; ?Vdkadh cfr'krk taxy uemkadh rgyuk ead'V # i eavR; f/kd c<hA

ou vkup'kdh , oa o{k ctuu l aFku] dks EcVj eatk tho ij , xy ekehyk dh i fuk; k ids vS dPps Qy l s rS kj dPps ikmMj dh tD l f; rk ij 'kSk fd; k x; kA

duk/d ds l ce. ; k vS i ukj l s xkl l iu; k bMdk ds Qy , d= fd, x, A Vki & I vS Vki & II e/kqsg dsfy, LVNVkst k/ksl u cSjr ek.My }kj k pgyka eae/kqsg jskh xqk dsfy, dPps l kj ds l kFk nksLi "V cHkt kadk i jh{k.k cxfj ij gA



xkl l iu; k bMdk Qy



Qy ka dk i De.k , oa'kdu

vkU/k cns k] duk/d] djy vS rfeyukMq ds fofHku {ks-ka l s E; D; uk cfrj, Ul fy] ds cht ka ea , y&Mh-vksi h,- ek=kvka dk vkdyu fd; k x; kA ; g nS k x; k fd dkys fpUknkj cht ka 1/45% w/w 1/2 dh rgyuk ea l Qn cht ka us de mRi knu 1/8-12% w/w 1/2 fd; kA



fofHku {ks-ka ea E; uk i ij, Ul fy] dscht



vixtud fyxblm ds #i ea çkd kfi l
tirylygk vls DylLVBFkl dkiyul dsikni iUkh
I kjkads I kfk Cu^{ss} vls Cr^{sss} vk; ukadsfeykdj , d
vkkzkehVsyd dkiyDI r\$ kj fd; k x; kA dodhjkskh
nhdjkskh vls dhVjkskh xrfof/k dh eki ydij , d
dk"B ifjj{kd ds#i eabl dkiyDI dkselw; kadr
fd; k tk jgk gA çkjFEHkd ifj. kkeausl kjka }kjk dod
dk I [r vojksku n'kz, kA dkiyDI dh nhdjkskh
xrfof/k ij v/; ; u çxfr ij gA

, Lijxl jf hekl I ds dnka dks i ksk' kkyk
D; kfj; kaeacs k x; k vls 2-5 I s5 I seh- dh xgjkz ij
78% valj. k vfhfyf [kr fd; kA vkdMkausn'kz, k fd
ncko volFkk eamxsdn dk vkdkj fl apr volFkk I s
vi\$kkdr dMk gA I s suu dsfy, dnkadsjkl k; fud
fo'y sk. k us I Hh p; fur LFkyka ea cMh fofHkurk dks
n'kz, kA

mPp [kk] eku ds I kfk çks/hu I kUnrkvka ds
mRiknu ds fy, i vkkj {k= ds p; fur iknika I s
i kni & çks/hukai j v/; ; u fd, x, A

; vlsyVI I djk dh ifuk; ka ea uk'ktho
çfrjksk vls dk"B ea fVdkÅiu nsus okys jkl k; fud
I akVdkadh igpku dh xbA dk"B , oai .kã eng I akVdka
dsfy, oãkxfrRo , oa vL; vkupã'kd i\$kehVjka vls
budsvkupã'kd I gl çak Hh LFkfi r fd, A

, p-ih-Vh, y-lh- dk mi; ksc djds fofHkuu
'kjhjd; volFkkvksdi .kã eng eatl fO; ; w ksyd
, fl M dk ek=kRed fofHkurk dk v/; ; u fd; k x; kA

Ekkuo okuLifrd #i I s egRoiwkZ
vks/kh; iknik& ikohVr bãmak vls fl UMfI I
vkkofl ufyl I s jkl k; fud ?kVdka dks iFkd dj
y{k. k o. kã fd; k x; kA

bywRni d Jãkykva ; Fkk& i s/kyh; e bFkj]
DyjskQkZ vls ehFksukly dsfoyk; dkads I kfk cht fxjh
dk fu"d'kz k fd; k x; kA bEkkby , I hv/s vls C; w s ukly
çHktkaeahFksukly I kj dk çHktu fd; k x; kA cht fxjh
I kj I sghVhjt hfuu r\$ kj djusdsfy, , d çfO; k dks

b"Vrehdr fd; k tk jgk gA fofHkuu I kUnrkvka; Fkk&
0-5] 1-0] 1-5 vls 2-0 çfr'kr ij 8 ou dodka
; Fkk& vYVjusj; k çtkfr] dkiy/hVks/vbde
XykbLi ksj vkbMhl] Okek çtkfr] OkekfI I I
MSçftz k] ¶; ut sj; e vkDI hLi k I] xsk&mekZ
yfil Me] jkbtkdVksu; k I ksykuh vls VRbdka/mekZ
fi yfyQije dsfo#) r\$ kj I kjkadh tkp dh xbA

ysVkkuk dekjk I s iFkdDr & dkskk/kq I s
dkckDI ehFkkby dkskk/kq r\$ kj fd; kA , ØhyseM ds
I kfk , YQk dkskk/kq dh xkfVax ds fy, vfhkO; k
volFkkvksdsb"Vrehdr fd; kA

esyfDI I , D; feukVr L; MksYckh Mhesj; k
dkMkZ/k ¼ jk ikni ½ vls ed bUMk Xyck Vky ½ ds
i s/kyh; e bEki] DyjskQkZ vls ehFksukly I kj r\$ kj
fd, A bEkkby , I hv/s vls C; w s ukly çHktkaeahFksukly
I kj dk çHktu fd; k x; kA Mhesj; k dkMkZ/k ¼ % ½ ds
i s/kyh; e bEki I kjka dh dklye Økes/ksckQh ds
QyLo#i fo'kq) ; ksd dk iFkdj.k garkA bl s
& fl VktVhj kly ik; k x; kA m; qDr I kj I s nks vls
; ksd iFkd fd, x, A

pkj çHkt ; Fkk& phys/j foyş i sDVd çHkt]
dkckZs/ fcyş i sDVd çHkt] , Ydyh foyş
v/kzks krf/od çHkt vls dks krf/od vo'k sk çHkt çkr
djus dsfy, Mk; kã i kbjst i hjfxuk ds Qyka dks
çHkt r fd; k vls budh jkl k; fud tkp dh xbA Qy
idus ds I kfk phys/j foyş i sDVu çHkt dkckZs/
foyş i sDVu çHkt] , Ydyh foyş v/kzks krf/od vls
dks krf/od vo'k sk eafofHkurk çxfr ij gA

, dhjBFkl fcMvVkvk dh tMka ds tyh;
I kj vls , dhjBFkl , Lij chtkã I s iFkdDr nks
fo'kq) ; ksdkaus18 ?k. Vseajs'kedhv ckEdI ekjh, y-
dh 19% ifji Dork dksçnf'kz fd; kA tcfdu; æ. k ds
ekeys ea 23 ?k. Vseadny 69% ifji Dork nçkh xbA
rhu I w hdj.k ; Fkk&, -, I -, e-] , -vkj-MCY; w
, -ch-vkj-MCY; w fodfl r fd; k vls ikyu ?kj ea
ckEdI ekjh , y ij jske mRiknu vud Ukku LVs ku]
I gl ij eai jh.k. k fd; kA



ककड/ एक, y- dsjskedhV dh drkbZ ea I keld; r% i wkZ gks ea 24 l s 36 ?k. Vsyxrs gA gekjs v/; ; u ep drkbZ 15 l s 18 ?k. Vsea i wkZ gks x; hA l e; vof/k dks de d jusdsdkj .k 'kgrw i Ukh dh [kir de Fkh vls , d l eku drkbZ ckr dh xBA bl l s 'kgrw i fuk; ka dh deh ds l e; ea l gk; rk feysxA mi ; Dr l =hdj .k cgr vPNh dks cu xqkoUkk ds l kFk jske dhV ds ikyu ea fd l kuka ds fy, mi ; ksch gkskA bl ifj ; kst uk dh eq ; mi yf/ k drkbZ l e; vof/k dks I keld; l e; l s bh d vk/kk de djuk gA

b"Vrehdr volFkkvka ds rgr VfeZsy; k phicnyk dks Qyfhfuk vls Vst hvhl ekbw/k dsok; oh; Hkxka l sjat d kadk egRo i wkZ mRi knu gkl y fd; kA nkska i kni ka l si FKDr jak dk mi ; kx djdsV l Vky uewka 1/2 skej Auh vls l wh/2 ds jat u bl dsckn jak l elo; dka ds jacU/ku , oafu/kk .k usjat r ds vPNsjan <rk xqka dksn'kk, ka

jak fu"d"lk ds fy, ni jat d ikni ctkr; kadh igpu djds, df=r@ckr , oaçøfer fd; kA fu"d"lk jat d kadsl kFk ekuo ckykae jak bZ i jh{k.k Hh fd, x, A

jak cukus ds fy, cdjh; k l fi Mk 1/4 keld; uke&yhVhdh vls , i k# l Mk; kadk 1/4 keld; uke&refl j 1/2 vls foLdkfQ; k tkokfudk 1/4 keld; uke& ; f; j; e 1/2 dh igpu dh xBA jak ds fu"d"lk ds fy, ikni inkFk dks, df=r vls çøfer fd; k x; kA nks ctkr; ka l sjak ds i FKDr .k ds fy, inkFk l snò vuqkr , oa l e; ds fy, fu"d"lk ikni inkFk dks b"Vrehdr fd; k x; kA oh, l -vkbZ f'kykx l sl xgky; i k'kr fd; k vls igpu dh xBA jak ds fu"d"lk ds fy, ikni inkFk, df=r vls çøfer fd; kA

2-6-5- tbbZku , oatbAtk

m".kdfVclh; ou vuq U/ku l hFku] tcyij ea tVRQk djd'k dh 2008 ea 9 vuqf) ; kavls 2009 ea 19 vuqf) ; kadscghFkkud i jh{k.k yxk, x, A of) xqka ds vk/kj ij nks vuqf) ; ka , p-, -ih-&41 vls , p-, -ih-&44 1/2 <oky mUkj[k.k M1/2 dks N/kbZ dsfcuk 'kk[kkvkadh mPp l ; k nsdsfy, vfhfyf[kr fd; k x; kA

m".kdfVclh; ou vuq U/ku l hFku] tcyij ea tVRQk dh 26 vuqf) ; kadksfeykdj , d jk"vh; cghFkkud i jh{k.k LFkkir fd; k x; kA QYkadh of) l ; k vls vkdkj ds l æU/k eavuf) Vh, Q-vkj- vkbZ&2 uscgj çn'ku fd; kA 24 mRd"V vuqf) ; ka l çn'ku i jh{k.k 160 vuqf) ; ka l snskt çf'k{k.k vls tVRQk djd'k ds vlrijy , oa ikyfMk i jh{k.k yxk, x, A tVRQk djd'k ds Dyksh; i jh{k.k , oa i ksk cht m|ku LFkkir fd, A jktLFku vls xqjkr l s pl fur tVRQk djd'k ds 30 dBU/Ms /ku o{kka ds l Urfr i jh{k.k Hh LFkkir fd, x, A



N/kbZ dsckn tVRQk ikni



tVRQk Qyu

fgekpy çnsk ea 23 gDVs j {s= ea tVRQk djd'k ds çn'ku , oaçk; ksd jk .k LFkkir fd, A fgekpy çnsk ea tVRQk djd'k ds 10 mRd"V vuqf) ; kadsl kFk çk; ksd i jh{k.k LFkkir fd, A



l kyx 1/2 cycl i j 1/2 ea tMe) dyela dk i jh{k.k



Tokyk th 1/2 dpxM1/2 ea v/k&l gknj i jh{k.k



ysVvkuk dekjk ea 40-2 g/1 1/6-65% 1/2 vls
phM+I fip; ka dsekeysea 33-9 g/1 1/6-20% 1/2 vf/kdre
y?kplkd 'kdj k çklr dh xba

orëku v/;; u tc ty vi?kVu ds ckn
fyXukdks krf/od gkbMtsyhtv/ çklr fd; k x; kj ds
vUrxr igys jkpd ifj.kke çklr fd, ftls vx
b"Vehdr voLFk vk ds rgr rkfr fd; ka rkiu ds
mijkUr dy y?kplkd 'kdj kvkadhek=k eaof) FkA

fofHku foyk; dka ds l kFk fyXukdks krf?od
tsek=k 1/2 ysvkuk dekjk vls phM+ I ph 1/2 dk
iB&fu"d"zk ds QyLo#i ty vi?kVu ds ckn
QhukMtd ek=k 1/2 o"kdrrk dh eki 1/2 ea deh vkbA
foyk; d ehFksukly ds l kFk iB&fu"d"zk ds ckn ysvkuk
dekjk us 18-9% rd QhukMtd ek=k dks?kVk; k vls
foyk; d vYdkgy cthu ds l kFk fu"d"zk ds ckn phM+
I ph ds QyLo#i ty vi?kVu ds ckn 65&92% rd
QhukMtd ek=k eadeh vkbA i jk ikjEifjd ehM; e dh
ctk; fofHku ehM; e dk mi ; ks djdsfd.ou {kerk
of) c<hA fd.ou {kerk ysvkuk dekjk dsekeysea
77-27% l s 80-72% rd vls phM+ I ph ds ekeys ea
78-93% l s 79-75% rd c<hA

o"z 2005 vls 2006 ea l bFku ifj l j ea
5 vuof) ; ka dksfeykdj jkVh; vls 17 vuof) ; ka ds

{ks=h; ijh{k.k LFkfr fd,A jkVh; ijh{k.k ea
Vh,u,-e-ih&14 vls vkj,-d&5 çgrj çn'ku dj
jgs g& tcd {ks=h; ijh{k.k ea vkbZth,-; &2]
ts,u-dsohoh&29 vls ts,u-dsohoh&15 ckyk?kV ea
20 l Urfr; ka dksfeykdj , d l Urfr ijh{k.k LFkfr
fd; ka dksfeykdj fNnokMtd fl [kjig] fNnokMtd vls
ykyig l ruk vU; l Urfr; ka eal cl svk'ktud thu
çk#i ik, x,A {ks=h; ijh{k.k ds vkbZth,-; &3
vuof) ea Qyu çf{kr fd; k x; ka

fofHku fdLe ds dk"B vif'kV vkj?kja l s
, d= fd; k vls budsH&rd xqkka dk v/;; u fd; k
x; ka , d= dk"B vof'kV dsm"eh; eku] l eh l Fk , oa
rkfr od fo'ysk.k dksHh fo'yf'kr fd; k x; ka tsek=k
xS hdj.k dsfy, dk"B fpl l] cka fpl vls çjksdks
vku 'kfr' dr fd; k x; ka



xS hQk; j



iB&fu; j xS

2.7 वन रक्षण

fogakoyksdu

Hkkjrh; okfudh vuq U/kku ,oa f'k{k ifj'kn-
 l bFkkukaesou ikni çtkfr; kadh ukf'kdhV ,oajkskaij
 vuq U/kku ifj; kstuk, apykbZ tk jgh gA ukf'kdhVka, oa
 jksxtudkadsfo#) ijikskh ikni çfrjksk ij fo'ksk tkj
 nwsdsi kfk çcU/k dh ,dhdh fof/k; kadh x.kuk dh xbA
 o{k çtkfr; ka ds tsek=k mRiknu ds ldkk dsfy,
 ykHkdjh l we thokadsmi; kx vks eq; ukf'kdhVka, oa
 jksxtudkadh çcU/k fd; k x; kA

ukf'kdhV

- jk'Vh; ou dhV l xg.k ds dEI; Wjhdj.k ds
 fy, dbZl kjf.k; k QkeZ vks ç'ukadsl kfk ,e-
 ,l-& ,DI l ea vkdMk vk/kkj fodfl r fd; k
 x; kA vkdMk vk/kkj ea l Hkh 18]000 çtkfr; ka
 dhj muds Hksrd l R; ki u ,oa Qks/ks ds l kfk
 vkdMk çfof'V dh xbA us/ ij bl vkdMk
 vk/kkj ij Mkyusdsfy, bl ekbZ, l-D; w, y-
 i-h, p-i-h QkeZea# i kUrj r fd; k x; kA
- bl dhj fVMek dh ,d u, thul vks 13 u; h
 çtkfr; ka dks Hkkj r l snks u, vfHky[ka vks
 foKku dsfy, u, ds#i eaof. k r fd; k x; kA
- nks ifr'kr l kUrj ij VstHh ekbuWk ds
 , l hVksu] ehFksukW vks i s/kyh; e bEkj l kjaus
 'kh'ke vks i kW/yj dsçed'k ukf'kdhVka dsykolZ
 dh 30&50% eR; k mRi l u dh gA
- ç; kx'kkyk ea foLrkj l s ckd Nnd
 f'lykbvks; l Øf l dhWyl dh tsoth dk
 vl; ; u fd; k x; kA
- Dyksuka ds tsek jkl k; fud ,oa Hksrd çdfr
 ds fo'yk.k ds }kjk Nky l Hkj d Nnd]
 blMjcsyk DokfMuk/kVv dsfo#) dSofj uk
 bfDo l hfVQksy; k dsp; fur Dyksuka ea l ki \$k
 çfrjksk dh i gpku dh xbA
- xky dhV yHhVkd hch bllok l k ds fo#)
 çfrjksk@ l gu'khyrk vks l onu'khyrk ds

fy, rfeyukMh vkU/k çnsk vks djy dsrhu
 fofHku df'k tyok; oh; {ks-kaea; wdfyVI ds
 , d l kSDyksukadksJskhdh fd; k x; kA

- dy feyk dj 19 ifjntkd vks 11 dk'B Nnd
 çtkfr; kafo'kk[kki VVue dhj xkg dsfy, u,
 l w-ikr ik, x, vks buea l s ,ufyM
 gkbMkbMhl vkWj dny l W/MoSy½ vks
 ekWld fl Qksy; k l h, Q- dj phus l l
 jho Hkkj r l sigyh ckj vfHkyf[kr fd, A
- fo'kk[kki VVue vks dkph dhj xkgkaea l eqh
 ij h'k.ka ea py jgs VhchVh, e-&, e-, e-,
 ifjj{kd ds l kfk mipkjr cKecDI l hck
 vks i kkl hfj, Ufkl QkYds/fj; k ds tkp
 i sryka us n'kZ k fd dkph dhj xkg ea dh
 i sryka ij 23 efgusea l QjkeVM dk'B Nndka
 }kjk vkØe.k fd; k x; kA
- iohZ rV ds l kfk&l kfk ifjntk.k l xg.kka l s
 igyh ckj ,d dk'B Nnd x&Vks kM] Fkb l
 CyuQkMhZehyfol ½ vfHkyf[kr fd; kA
- ruk Nn] cks/kd hjk #Qkedny/kVv tks
 eq; o{k rus dks ctkrk gS ds vkØe.k dks
 0-5% MkbDyjsokl ds 10 fe-yh ty feJ.k
 dks bUt DV dj dsfu; r fd; k x; kA
- , l ukuk LDoekd k ds chtka ds i s/kyh; e
 bEkj l kj dks ; wDVkuk ebfjfy l vks
 ghCyh; k l; jk ds yokZ ds fo#) 72-99 l s
 75-43% l Hkj djkskh dk; Zyki dk çn'ku djrs
 gg vfHkyf[kr fd; k x; kA 0-5% ueh 0; ki kfj d
 l w-hdj.k dk i. kZ fNMelko ; ok yokZ ij
 90% l Hkj djkskh çHko ds vykok 80% v. Ms
 nwsdsfu'ksk dsfy, vfHkyf[kr fd; kA
- l a kst u ea 300 xk- çfr D; kjh ¼/kdkj 12 eh- x
 1-25 eh½ dh nj ij Qksy/ vflok ehFky
 QksyMky vks fodYi r%250&300 çfr D; kjh
 bZi h, u- tfoukbY l ds l kfk enk mipkj tM+



I Hkj .k [kr Hkx }kjk i kSk eR; Zrk dksde djus eaçHkoh fl) gq/kA

- jktLFkku vks xqjkr ea r\$ kj fd, x, eksukØks/kØkst] 10-01%½dsl kFk mi pkrj vks miotZu ijh{k. kka ea N= dsrgr j [ks i kSk kka 48 l lrg dh vof/k ds ckn yxHkx l Hkx i \$kehVjkaeal okSkke vks r of) çn'kz çnf'kr fd; kA
- i kp dhV x. kka; Fkk& ysi MksVhj k] dkV/hvksVhj k] gselVhj k] vkFksVhj k] ghehksVhj k] ls l æfV/kr l rhl dhV çtkfr; ka vks 24 ifjokj k] Jskh vjkd fuMk dks i kSk'kkyvka ea 5 'khrkS.k vksV/kh; i kni ka dsl kFk l æ) ik; k x; kA
- i kV/hxØl ykxØksy; k igys pHM+ ikbu ou fn [krk gS vks igys detkj ofk ij vkØe.k djrk gS bl dsckn vli; dhV ruk oskd ofk dks Hkst u] vkJ; vks v. Msnusdsfy, viuk y{; cukrsg vlx dh ?kVuk, avks vR; f/kd jst u fu"d"zk Hkxd dsfy, ofkadh l onu'knyrk dks <krsg ikp ifr'kr dh nj ij uhe rsy fod"kd ds #i ea dk; Z djrk gS vks Hkxd vkØe.k jkd useaçHkoh gA
- ehVkjfgft; e vk/kfjr dod dhVuk'kd mRikn i kVLV ¼ kmMj vks no #ika eBz fodfl r fd; k x; k gS vks tkjh djus, oa(ks= ea vk; ks dsfy, r\$ kj gA

jksx] jkstud vks ykHkdkjh thok. kq

- l gou Eykfu mRiUu djus okys ¶; utfj; e l ksykuh ds fo#) MSçftz k fl LI w ds çfrjkskh, oal onh Dykaadh igpku dh xbA
- Mh,u,- vuØe ds vk/kj ij xdkMekZ dh nks çtkfr; k th jsl us h; e vks th ohchfj, ue dks, d= fd; kA ckn okyh Hkjr dsfy, ,d u; k vfhky[k gA bD; kou vkbZ/h, l- vuØe tScB] ¼k'vh; tB

çks kSxdh l pdk dhnz; ; u, l -, dksçLrç fd; k vks , u-l hch-vkz oS. l kbV ij tkjhfd; kA

- Hk.Mkfjr vksV/kh; ikni mRikn ea LiKWySt Qach dh of) vks vdgj.k jkdus ds fy, fl vksuhyk rsy] ygl q rsy] yeu ?kkl rsy vks vtokbu rsy ds ok'k'kny çHko dks l QyrkiØd LFkfr fd; kA
- enkj jksxZr iknika vks iÜkj Vguh, oa i kSk 'kh.kzk ds l kFk l Øier l jks. kka jkr iØZ jks l pd ; dlylVI ikni ueuka l s l hfylMØysM; e fDouDohl hVæ ds Mh,u,- fu"d"zk ds fy, çks/kSdKly/ka ds ekudhdj.k dsckn uskfud fdV fodfl r dh xb] tks jks Hko"; ok.kh djus ds fy, vks jks tud dh igpku eal gk; d gskA
- fgeky; u ?kkl LFkyh ds dod dkMh l l fl ufl l dsfoHku vkbl ksy/ka dsU; Dyh; j r DNA thu ds l unj] 185 r DNA thu vks vBBkz Hkhrjh VRU ØkbLM Lid j {k= dks ifjof/kr] vuØfer djds, u l h ch vkz dks çLrç fd; k vks , DI l u- vkçVr fd; kA
- ,Lijftyl ¶yol] dnyfj; k çtkfr vks ¶; utfj; e çtkfr dks 27-6 kg.m⁻³ ds ifjj{k.k /kj.k ij Hkx, uksthl l , dhieukV ¼ ksu½ vks eixQjk bMdk ¼ake½ ds l h l h, - mi pkrj çdk'B oQl Zdk mRiHMe djrsgg ik; k x; kA
- l ky vks chtkl ky Hk.Mkfjr dk'B ij {k; dkjh dod dspkj oak vks l kr çtkfr; ka dk igyh ckj vfhkyf [kr fd; k x; kA
- jkb tkØVksu; k cVfVdksy }kjk mRiUu pkjdsy ey foxyu jks vks uk'kdhV ¼vdk; k tukVR½ dk vR; f/kd mRiHMe jktLFkku ea ikyh, oa l ksr ea egUnh ¼vks ksu; k bufe l ½ ij vfhkyf [kr fd; kA
- ; dlylVI Dykska dh ruk dyeka ea l jks i r thokf.od l jks; cfl yl ehx/hfj; e]



L; Mkekukl [yuvkghl bl] , tk/kcDVj
Øndkde vls , tkLifjye cfl ybl us
vkbzch,- mipkfr dyeka dh vi\$kk
40% T; knk eny&i fuk dksc<k; kA

- vfØ; ehM; k eamxk, x, dSolkfjuk dyeka
ij Yfd; k ds N% vkb l ksyVI ds df=e
l jki.k us n'kkz k fd ul y CjCbe1 us
mPp xFUFk; ka 1/4@dye½ vls xFUFk Hkkj
1/5 mg@xk1/2mRikfr fd; kA
- thok.kq, Lijfityl çtkfr vls VrbdkMekz
çtkfr; ka dksenk l akkukaka ds l kfk ikni of)
c<kus dsfy, ik; k x; k D; kkd blgkous plnu
i kka dh 10&20% mükj tfrork vls 43%
Åpkbzdksc<k; kA

fo" k; oLrq ds rgr i fj ; kst uk, a

i fj ; kst uk	o" k'z ds nkj ku i jh dh xbz i fj ; kst uk, a	t kjh i fj ; kst uk, a	ok" k'z ds nkj ku ' kq# dh xbz ubz i fj ; kst uk, a
lyku	17	25	11
ckgj l s l dk; rk çtkfr ; kx	10	10	04
	27	35	15

2-7-2- ukf' kdhV] jkx vls mudk fu; æ.k

x<øky fgeky; ka eafrryh fofo/krk

x<øky ea6 LFkyal sck.k vkd ouka l s200 l s
vf/kd çtkfr; ka dk çtkfr le) rkl çpjrkl [kk|
ikni@l krl l æe] v.Ms nsus dh vof/k vls vU;
vk/kj j\$kk LVSM i\$ketVjkaij vkpM\$, d= fd, x, A
mükj k[k.M ds ij thoh dSYI MkbMk dh
tbf fofo/krk

Lvhj hvkst e kbØk dksi ds rgr ç; kx' kkyk ea
ij thoh dSYI MkbMk dks bl l eug ds 18 ifjokj ka ea
Nk/k x; kA ifjokj ; ykQm l cl s çpjr vls çtkfr
le) ifjokj Fk bl ds ckn VjkesyMk bl dh jfVMk
; dls jfVMk ekbesjMk ; ihyefMk , fQyfuMk vls
VrbdkseVMk Fk dbz ubz çtkfr; ka dh igpku dh xbz
vls budsç; kjsij dk; Zçxfr ij gA

jk"Vh; ou dhV l æg.k dk vkpMk vk/kkj
, e, l-&, DI l ea vls ekbz , l-D; w, - vls
ih, p-ih Qk&V eaHh vkpMk vk/kkj fodfl r fd; kA
okfudh egRo dh djhc 18]000 dhV çtkfr; ka ds
oxhdh oxhdj.k l æg.k vfhky\$kl ij i ksh l pouk vkfr
ij vkpM\$ l ekfo"V fd, A çtkfr; ka ds ckj sea igpku
nsus dsfy, dhVka dh djhc 16]000 çtkfr; ka ds mPp
foHksu rLohj kadkshh l ekfo"V fd; k x; kA

dN egRo i w k z o{k çtkfr; ka ds ou dhVka
dk vkpMk vk/kkj vls mudk çCU/k

l Ec) ukf' kdhV] çtkfr LFku] ij i ksh jæt]
{kfr dh çdfr] çtkfr dh vof/k vls çCU/k rdudka
ds fy, ukS okfudh o{k çtkfr; ka mnkgj.k&
'kkjh; k jk&Vkl MScftZ k fl LI j MScftZ k
y\$VQky; kl , d\$'k; k dS/pj , d\$'k; k
fuyk\$Vdk] , fYcft; k ycd] , yUFkl , DI Yl kl
ckl vls VDVkuk xFUMI dsfy, vkpM\$, d= fd, A
foHksu miHksrk vlrjki" B Qk&V dks vfhkdfYir djds
l Qyrki dZ l phc) fd; kA ; sQkZ l Ei w k miHksrk
ikj Lifjd fØ; k ç. kkyh ds vfhkdfYi u dsfy, , dhdr
gA orZku ea pkj çtkfr; ka ; Fk&l ky] 'kh' ke] ckl]
l kxk l sl æfU/kr l pouk ds vkpM\$ l kVos j eaçfo"V
fd; kA

oxhdj.k foKku

ifjokj Vsus kLVesVMk %gheuksVhjk %
dSYI MkbMh; kZ l hfuihuØhVI bfUMdl fl g l s
l æfU/kr , d u; h çtkfr dks of.kz fd; kA ; g Hkkjr l s
thul l hfuihuØhVI dk igyk vfhky\$ k gA

nw?kVh] mükj k[k.M l s ; jhc dhl VkeuVkl k
1/2ny xk\$Mk½ dsv.M l engkadk ij thoh dj.k d jusokys
çky; jk\$ hjl fyVkjfy l g; kr vls dkteh dks
vfhkyf[kr fd; kA ; g Hk çtkfr dsfy, u; k vfhky\$ k
gA i dZ ea; g çtkfr dsy eknk l stkuh tkrh FkA
bl fy, bl dsuj dks shh of.kz fd; k x; kA

nw?kVh l s ghi k l MR Vkykdk okdj
1/2fyi MksVhjk % thvkefVMk½ ij dks/hfl ; k dkbZhyhl



1/2 jys 1889 1/2 ghEukdVhjk %cɔkfsuMk %ekbØksɔL Vuk 1/2 dk
i gyk i ji ksh vfHkyf [k vfHkyf [kr fd; kA

e/; Hkkjr l s cɔkfsuM ij t h0; kHk
1/2 ghEukdVhjk 1/2 dh ofxZdh

cɔkfsuMka ds l xg.k ds fy, vdkyk] okf'ke] fgaksyh] ijHk.k] o/kk; ; oreky] uknM] ykVij] chM] vkt.ekukckn] l syki g] tyxkø] ukf'kd] Fkk.ksvk] eqcbZ ftyka ds LFkkuka dks feyk dj egkj'V^a ds egRo iwZ okfudh , oa l ehi or tZ df'k okfudh {ks-ka dk l o{k.k fd; kA dhV çk.ktkr ds dty 176 ueus l QkbZfof/k }kjk , d= fd,] ft l eal s876 cɔkfsuMkadsNkV/dj ij jf {kr fd; kA foHkku ou o{k çtkr; ka l scɔkfsuMkadsfuxZu ds fy, i.kZ l gaxd] fu"i=d] xly l #i.k dhVka , oa ukf'kdhV/kadsykok@l; iir ds 213 ueus, d= fd, A dty cɔkfsuMka dh 8 çtkr; ka dh çkfr dh xbA l kxksu ddkyd ; *WØVksuk eBjfy l s , iØVhyhl , fUVi kMk] , - eBjfy l (l kxksu fu"i=d] ghCyh; k l; jk dsykoZ l s , - ghCyh; k (, ds'k; k fuykSVdk ds fu"i=d l s Mkfydkt fufuMk çtkr vk] , - Vd j fM; k] fcMhfy; k jhV k ij , d vKkr l feyij l s , iØVhyhl çtkr] yxjLVkfe; k i foM] ykj k ds fu"i=d , xkshjk cfl ukv/kvk l s , iØVhyhl fVjkdsk vk] i kfi fy; ksMhksyh; l l s , - d fuvkbZ pkj çtkr; ka; Fkk&cɔkksu tyxkvksuhf l çtkr uo] phyksu l ok?kht l çtkr uo-] phyksu l fgakfy, fu l çtkr uo- vk] MkghDVhl bfUMdl çtkr uo- dks l QkbZfof/k l s, d= fd; k vk] foKku ds fy, u; hçtkr; kads#i eavfHkyf [kr fd; kA*

nhedkaij v/; ; u

VfeZVMk ifjokj l sl æfUkr nhed çtkr; kads ok; Yl dk v/; ; u fd; k x; kA dty VfeZVMk ifjokj l s l æfUkr 33 çtkr; ka dk v/; ; u fd; k x; kA bl ds vykok dtyk/VfeZVMk 1/5 çtkr; k; fguks/VfeZVMk 1/4 çtkr 1/2 vk] LVkbyk/VfeZVMk 1/4 çtkr 1/2 ifjokj l s l æfUkr 7 çtkr; ka dk v/; ; u Hkhd; k x; kA l Hkhd 40 çtkr; kadh l gh HkhdSkfyd çkfr LFkku Hkhd fin, x, A

ekbØksyhfi MkdVhjk

ds/hjhEuk V; wj dtykd k ehfjd ds #i ea igpkusx, , d cht Nnd dks igyh ckj fpyxstk ikbu dscht kaij mRihMæ dsfy, l fpor fd; k x; kA i k f'kjfol; kl vk] tuukæ dk v/; ; u djdsbl dh ofxZdh dksv | ru fd; k x; kA

ukf'kdhV l o{k.k] çHkko&{ks= vk] t f0dh
ckd ukf'ktho

e/; Hkkjr eai k'kkykVææcld kadsukf'kdhV kaij l o{k.k usdhVædh 4 fdLeæ; Fkk&i.kZjys l fVMM] , fQM vk] 'or Hædka dks mn:WVr fd; kA ØhVf l ; k dkhyl fyl] ikbjs; l vk cEcll okj k ds #i ea i.kZjys l ghjkyhQl çsu; u] i kfi yhl hj l fi Dj l vk] LdhVhl hjh; k xhxfj; k ds #i ea fVMM] vk] Hæc cEcll k ds #lk ea , fQM vk] gsyk/Vbf; k dku l bxuh; k ds #i ea 'or Hæc dh igpku dh xbA bl h rjg jk. Wææcld kadh foHkku çtkr; ka dks çkr igpkus okyh dhVædh 4 fdLeæmngj.k i.kZjys l fVMM] , fQM] uky Nndkav] [kjxst k dksvfHkyf [kr fd; kA ckd Nnd fkykVæc; l Øfl dkhyl dh t f0dh

fkykVæc; l Øfl dkhyl ckd dh , d egRo iwZ uk'ktho gs vk] gjs [kMæ ckd ka dh N% foHkku çtkr; k; Fkk&cEcll k cEcll] cEcll k VMM] cEcll k o{xj l] tkbxbVh; k , çksovkyl h; k] MhM] kdsykel tkbxbVh; l vk] MhM] kdsykel fLVØV l ij vkØe.k dsfy, çkfr fd; k x; kA cEcll k cEcll ea Nnd ds vkØe.k çHkko {ks= 7-18% l s 11-2% Fkk Hæd eb&tw dsefguseafudyk gsvk] ckd uky dh xkß ea 40&45 v.Ms nrk gA mnkhu vof/k 10&12 fnu vof/k vfHkyf [kr dh xbA eknk vk] uj o; Ldkæd thoudy Øe'k/20&25 vk] 17&20 fnu Fkk ykøZ xkß ea çok djrk gsvk] ckd dh Hkrjh l rg ea Hkst u djrk gA fMEHkdh dh vof/k 9&10 efgusçkfr dh xbA ifji Do ykøZ i okh jkææ fMEHkdh xSyjh dsfdukj i j , d v.Mkdj l; i; y pçj cukrk gsvk] 2&11 dsl eg ea l dty rjhdæal; i; v/ djrk gA l; i; h; vof/k 15&20 fnu pyrhgA thou pØ , d l ky eaij k gk'k gA



rfeYukMq vKj dJy ea rst of) djusokyh o{k çtkfr; k&, yUFkl , DI Yl k] ehfy; k Mfrc; k] esykbuK vkckj h; k] FkhLi hfI ; k i kV gyuh; k] ekj l , Yck] ckEcDI l hck vkj MS'cftz; k fl LI w ds ukf' kdhV

l o{k'kr {ks-ka 1/2 rfeYukMq ea N% i kSk' kkykvk; X; kjg jki .kavk; rhu çkdfrd ou LFkkukavk; dJy ea pkj i kSk' kkykvk l kr jki .kvarhu çkdfrd ou LFkkukavka bu çtkfr; kads i kSk'kacky o{k'kavk; ; øk ea {kr i gpkus okysdhv/kadh djhc 55 çtkfr; kads vfhfkyf [kr fd; kA blugamRi Uu {kr dh çdfr vk; vkØe.k dh budh rhork ij vk/kfjr çedk , oa xkSk ea Jskhdir fd; k x; kA vfhfkyf [kr dhv/kadh 55 çtkfr; kaeal s10 u, vfhfkyf k gA ed; uk'kthokads l kFk l Ec) rhu ykozy , oal; i y ij th; kkk; l kr ij hfk; k; kavk; nks thok. kq/kadks 'k'fey djds çkdfrd 'k=q dMlyDI dks Hh çyS [kr fd; kA vflure mi HkD rkvka ds Ykkh ds fy, , d uk'ktho dySMj rS kj fd; k x; kA

if' peh ?kkVka ds p; fur ns'kt o{kka ds Qyka, oachtka ds l kFk l Ec) dhV

çfr'krrk eaçkflr dk folrkj dkyvkvk; jkU ds l æUk ea 37-78] ySi MkSvj kU 26-50 vk; fMIVj kU 36-22 FkA Qyka vk; çtk; ds dhv/ka dh fofokrk edh/k 1/4 p 0-808 1/2 dh rgyuk ea l çæ. ; k 1/4 p 1-8099 1/2 ea T; knk FkA

bfyekuh] dukVd ea ekbfj fLVdk MDVhykV M+ 1/2 j keki Fkj h 1/2 eR; zrk

l o{k'k. k uso{k'kads l kFk l Ec) fd l h Hh rjg dk xkSk vFkok çedk ukf' kdhV dk çHko ughan' kiz; kA vf/kd tlp dsfy, , e- MDVhykV M+ o{k'kads A ij h forku l s er 'kk [kkv kads dV fn; k x; k vk; dhv fuxæu dsfy, fi at jk voLFkk ea j [kk x; kA dkyvkvk; vjhj 1/4 fjokj l hjæch l Mk 1/2 dh nksfcuk i gpkus okyh çtkfr; kads er 'kk [kk ds vqMka l sfudyrsqg i k; k x; kA

i kbul thjkfMz; kuk 1/2 rpyxkst k 1/2 ds 'kadq , oachtka ds ukf' kdhV

'kadq/ka vk; çtk; ij ukf' kdhV mRi hMæ ds fy, fobuk; , oapEck ftyka ds vKB LFkyka; Fkk& i kach 2750 eh] ycjka 2915 eh] > kach 1/2 d i k 1/2 2742 eh] fdyck 1894 eh] vdik , Q-vk-, p- 2503 eh] dkj kFkh 2753 eh] Hkjekj 2143 eh- vk; fjLk 2406 eh- dk l o{k'k. k fd; kA rpyxkst k pM+ ds çkdfrd çkflr LFkku ds l Ei wZ jat ea 'kadq Nsd Mk; kj hfDV^a k , chVhyk }kj 'kadq xfl r ik, x,] fdUr qfdYck ea 69% 'kadq {kr xLr ik, x, A dS/hj hEuk V; w; j dgyksvk eh] j d ds #i ea i gpkus; k , d çht Nsd i gyh çkj rpyxkst k pM+ ds çtk; ij mRi hMæ ds fy, l fipr fd; k x; k gA çht Nsd vkØe.k ds y{k. k t; yk bz ek; ds nk; ku fn [kus' k# gksrsgsvk; vxLr rd yxHkx 50% çht {kr xLr ik, x, A {kr fnl Ecj rd tkjh jgh rc rd 94% çht {kr xLr ik, x, A

, fEcydk vkVQfl usyl dh fofHku fdLe ka ds buMj csyk DokfM'uks/vk uk' ktho

Ukf' kdhv/ka, oajkskads Lrj ds vuohk. k dsfy, l ksk?kVh 1/2 uq l vku , oa folrkj l fdz crgy 1/2 ea , fEcydk vkVQfl usyl ds Dyksh; çht m|ku ea l o{k'k. k fd; k x; kA l kr fofHku fdLe ka mnkj. k&d". k] Ykfu l] , u-, &6] pd\$ kj dpuj , u-, &7 vk; , fEcydk vkVQfl usyl dh LFkkh; fdLe ea Nky Hk{k d bYyh buMj csyk DokfM'uks/vk dk folrkj vfhfkyf [kr fd; kA

fu; æ. k

j l k; u

p; fur okfudh çtkfr i kSk' kkykvka ea ukf' kdhV çCU/k

fofHku i kSk' kkykvka ea Mk; l kDI hye ekykcsj de] xfl i u; k xffexkvk; ekbfj fLVdk ekykcsj dk] oS/hfj; k bMdk] , st SMj DVk bMdk] i kæfe; k fi UkVk] , fEcydk vkVQfl usyl vk; l si UMI beftZijl ea jkska vk; ukf' kdhv/ka dk



v/ ; ; u fd ; k x ; kA l Hh p ; fur ç t k r ; kaeai . k z kh . k z k
v k s i . k z f p u r h j k s d k ç H k o ç s { k r f d ; kA i k a c f e ; k
f i U u k V k i k s k a e a L d s y d h V d s l k f k d j h c 35% x k y
m R i h M e u v k s 100% f u " i = d m R i h M e u ç s { k r f d ; kA
, f e C y d k v k i Q f l u s y l i k s k a d s f y , l f r y d j h i k s k ' k k y k
e a e h d k u h f y d k d l f g l w l } k j k i f u k ; k a m R i h M e u
1/4 00% 1/2 ç s { k r f d ; kA

l k x k s u i k s k ' k k y k e a [k r H k a d k a d s f y ,
v k b z i h - , e - e k M y

g k s k s / k b f d ; k # f l V d k j , p - E ; f i l M k v k s
f l d t k u h d k # f Q d k f y l i j v u o h { k . k j } ç s { k . k v k s
i j h { k . k a u s o / k e k u l k i s k v k n z k v k s H k a d f u x z e u d s
l a l v k d k s m n ? k f v r f d ; kA v k d M s n ' k z s g d f d f u x z e u
d h r k j h [k l s 2 & 3 l l r k g i g y s o " k z u s l E h k o r % f u e u
o k r k o j . k h ; l k i s k v k n z k 1/4 50% 1/2 d s d k j . k H k a f u x z e u
d k s ç s j r f d ; kA l k i s k v k n z k e a o f) d s c k n l k / k j . k
o " k z u s l h h H k a d k a d s f u x z e u d k s ç s j r f d ; kA 15 f n u k a d s
v l r j k y i j n k s c k j e k s u k O k s / k O k s t v f k o k M k b e h F k s V
0-05% d s l k f k f t f t Q l t u t u k v f k o k f t f t Q l
e k f ' k z k u k g k V & V S l i j f n M e l k o o ; L d k a } k j k v . M s
n s u d k s d e d j u s e a ç H k o h f l) g y k A ç ; k s ' k k y k i j h { k . k
ç H k o h f l) g q A v P N h f l p k b z v o l F k e a 250 & 300
t u h u k b Y l 1/4 / k b z t s , l - 1/2 @ D ; k j h d h n j b z i h - , u -
, p - b a M d k v k s , l - d k i k z b l k d s d l l l z d s l k f k
l a k s t u e a v f k o k f o d y i r % 300 x k @ D ; k j h 1/4 / k d k j
12 e h x 1-25 e h 1/2 d h n j i j Q k j v @ e h F k b y Q k s y M k y d s
l k f k o ; L d f u x z e u d s c k n , d l l r k g d s H h r j l k x k s u
D ; k f j ; k a d k m i p k j i k k e R ; z k d s f o l r k j d k s ? k v k u s e a
ç H k o h f l) g y k A e d r d j u s d s , d e k g c k n v k b z t s , l - H h
ç k r f d ; k j t k s e d r e n k e a m u d h m l k j t h f o r k d k s f l)
d j r k g a ç s { k . k a d s v k / k j i j ' o r H k a d k a d s ç c l / k u d s f y ,
, d v k n ' k z e l x h ' k z f l) k u r f o d f l r f d ; k x ; kA

ckal Nnd Qlykbovkfc; l Øfl dkfy l dk
fu; a . k

nd zu 0-04% l cl ç H k o h i k ; k x ; k b l d s c k n
b u M k l Y O k u F k A t c f d l k b i j e h F k u v k s M s v k e h F k u
U ; u r e ç H k o h F k A n s g d d h v u k ' k o l k a e a b e M D y k s c M

0-04% ç H k o h i k ; k x ; k j b l d s c k n e k s u k O k s / k O k s t v k s
M k b e h F k s V j g a

i k a c f e ; k f i U u k V k x k Y l v k s m u d k ç c l / k

i k a c f e ; k f i U u k V k i j f o l r r l o z k . k a u s r h u
x k y ç j d k a d k m R i h M e u n " k z k j f t l s r h u x k y ç j d k a
m n k j . k 1/4 1/2 i . k z x k y ç j d b f j v k Q h b l p h f j ; k u h
e s h 1/2 b f j v k O M k % , d f j u k % , j d f u M k 1/2 1/4 i 1/2 v k o j h x k y
ç j d & , L O k s M h f y ; k i k a c f e ; k e k u h 1/4 h f l M k e h M k %
f i M i v j k % b u l D V k 1/2 v k s 1/4 i i 1/2 r u k x k y ç j d & , x t e k b f t M
Q y k b z 1/4 x t e k b f t M k % f i M i v j k % b u l D V k 1/2 } k j k v k Ø e . k
g y k A b u e a l s v k o j h x k y ç j d l c l s e g r o i w k z g S D ; k a d
; s 100% c h t { k r d h l e k r d c h t m R i k n u d k s l h / k s
ç H k o r d j r k g a v k o j h x k y ç j d d k s f u ; f = r d j u s e a
v k o j h x k y x f l r ' k k [k r v k a d h d k v & N k v v k s b l g a
t y k u k @ n c k u k v k n ' k z g a x t h h j m R i h M e u d s e k e y s e a
d y h l j p u k d s l e ; D y k s i k b f j O k s t v f k o k
b f e M k D y k s c M d k f n M e l k o f d ; k t k l d r k g a

, y u F k l , D I Y l k j e s y k b u k v k c k j h ; k v k s
M s v c f t z ; k f l l i w d s u k ' k h t h o

i k s k ' k k y k v k a e a v k s ; o k j k i . k e a u k ' k h t h o k j
, V h o k Q s c f l y k v k s b f y k e k u k l l l 1/4 y u F k l
, D I Y l k 1/2 e k b y k d j l f i M l d k h y j] , e - f o f j M s u l
1/4 M s v c f t z k f l l i w v k s ; w h j k s / h t h f e u k V k
1/4 e s y k b u k v k c k j h ; k 1/2 d s f u ; a . k e a 0-025 l s 0-075%
i j j k l k ; f u d i h M e l u k ' k h ; F k k & f f k v k s M d k c j
Q y u s u M , f e M j e k s u k O k s / k O k s t v k s D y k s i k b f j O k s t
ç H k o h F k A

l k x k s u v l r % d k " B N n d , y D V h j k s t h f l V ; k
d n E c h e j d k ç c l / k

; s y k i j ç H k o x e a M k s h u y v k s f d j o k r h d s
i g p k u f d , { k s - k a e a u k ' k h t h o ç H k o v f h k f y [k r f d ; kA
x f l r j k i . k a e a u k ' k h t h o k a d s v u o h { k . k d s f y , 3 y k b V
V S 1/4 d l s y j i k o j g s z L F k f i r f d ; kA x f l r j k i . k a l s
y k b V V S l a z g . k a l s o ; L d x f r f o f / k d k v u o h { k . k
f d ; kA y k o z y V S } k j k ; k a = d f u ; a . k v k s e n k V S l d k
i j h { k . k f d ; k v k s i { k h i j H k f { k ; k a d h H k e d k d k s ç y f { k r



fd; kA Mkschuy jksi .kka ea l w dfe blt d'ku } jkj
t s fu; a .k dk i jh {k .k fd; kA l w dfe; ka v k s / k e d k a d s
l k f k r u k m i p k j a c c u / k d s f y , i) f r ; k a d k , d i s t
f o d f l r f d ; k A

[k r h d s v l r x r p l n u d h u k f ' k d h v
l e l ; k v k s m u d k c c u / k

Uk f ' k d h v k a , o a j k s k a d s f y , c h o s u k u g Y y h j
e p h l u k g Y y h j g k s v v i g i k j ; y o k y k 1 / 2 i j 1 / 2 v k s t j d c l n k
e a f l f k r p l n u d s i k p o u l o / k z u & v k s k f u d h e k m y k a d k
y x k r k j l o k . k f d ; k x ; k A b u e k m y k a e a i k , x ,
l k e l u ; u k f ' k d h v k a e a ; s j l p i k d 1 / 2 v k s t l h j f d l
V j b m l] l d h v h ; k g f e l Q h f j d k j i k j l d h f v ; k
u k b x e j l h j k s y k f l v l , f d v f u Q h f e l] , v k s u m h y k
v k s j , u v f y l v k s i k j k v d j f m u k f l Y o h l v m a
p l n u i j v f h f y f [k r f u ' i = d f k s o k s / k s k a l c t k f r]
M s h f d j k e h u m k d k v k s , d s ' k ; k v k m j d r y Q h f e l
d s l k f k m x s ; o k p l n u j k s i . k k a i j l o k . k k a u s , d x h k j
r u k N n d] i i i j l h u l l a u k s y h u v l 1 / 2 h j e c f l M k %
d k m y h v k s v h j k 1 / 2 d s c h k o d k s m n ? k f j r f d ; k A p l n u i j
b l l h j e c f l M H k a d h i g y h f j i k s / z g a y x h k x l H k h
e k m y k a e a N k y H k { k d b Y y h 1 / 2 u m j c s y k D o k f m u k s / k v r h / 2
c s { k r f d ; k A p l n u e k m y k a e a l s , d e a j b l d k m d h N n d
1 / 2 ; u t h j k d k m d h / 2 d k s c s k d f d ; k A ' l h . k z k y { k . k c g r
d e f k a

d s o k f j u k b f d o l h f v o k f y ; k j k s i . k k a e a
b u m j c s y k D o k f m u k s / k v k c c u / k

r f e y u k m q d s f o f h u d u d f ' k t y o k ; o h ; { k s - k a e a
m x k , x , d s o k f j u k b f d o l h f v o k f y ; k j k s i . k k a e a
N k y H k { k d b Y y h c h k o d k e w ; k a d u f d ; k x ; k v k s v c
r d d y 1 8 j k s i . k k a d k v / ; ; u f d ; k x ; k A d s o k f j u k
o { k a d h o f) N k y H k { k d b Y y ; k a d s m R i h m a d s c h k o d h
t k p c x f r i j g s v k s v k o r i z o f) v k d m k a d k l a z g . k
v k s H k f k . M k a d k i k s k . k f d ; k t k j g k g a N k y H k { k d b Y y h
l s d n d h v j k s t u d , d = f d , A b u u e m k a l s
u k ' k h t h o i j b u d h { k e r k d k v / ; ; u d j u s d s f y ,
f o ' k o l o / k z f o d f l r f d , A

c p k u f u ; k y a t u d s u k f ' k d h v

l k r j l k ; u k a m n k g j . k & M k b D y k s o k d 0-5%]
e k s u k o k s / k o k s t 0-07%] b u m k d Y O k u 0-05%] M k b e l f k s V
0-05%] i s / s y] d j k d h u v k s M k b d k j k s c u t h u \$
d s j k d h u & 1 0 f e - y h c r ; d e a l s M k b D y k s o k d 0-5%]
1 / 4 0 f e - e h 1 / 2 d s t y f e J . k u s c p / k d h j k # O k e d h y k v k
d h ' k r c f r ' k r e r ; q d k s n ' k z k A p k j j l k ; u k a m n k g j . k
e k s u k o k s / h o k s t 0-05%] b u m k d Y O k u 0-05%] c f o l v u
0-0% v k s , Y O k , u , - , - 1 / 4 0 i h - i h , e - 1 / 2 e a l s
b u m k d Y O k u 0-05% \$ c f o l v u 0-2% \$, Y O k , u , - , -
4 0 i h - i h , e - d s l a k s t u d k i . k z . f n m e l k o c p k u f u ; k
y a t u d s Q y m R i k n u d h v f / k d r e l a ; k v k s H k j d s
f y , l o k k e f l) g r / k A e k s u k o k s / k o k s t 0-05%]
b u m k d Y O k u 0-05%] l k b i j e h f f k u 0-03%] Q s i o s y h j v /
0-03%] M s v k e t f k u 0-002%] , Y O k e h f k u 0-003%]
f c c k s l i j & c h - c f l ; k u k 7 f e - y h @ y h v j] u e j k t
l c h e & u h e r s y 0-5% d k i . k z . f n m e l k o
7 2 ? k . V s d s H k r j y k o z d k s e k j u s e a f u ; a . k d h v i { k k
e g r o i w k z # i l s m R d ' v i k ; k x ; k A

p h m + i k b u o u k a e a d h v N n d d k m l y d l
d k c c u / k

p h m + i k b u r u s i j d h v k a d h 1 2 c t k f r ; k a } k j k
v k o e . k l i p r f d ; k x ; k A v k c k n h v k s { k f r d h c d f r
d s v k k j i j 4 c t k f r ; k s i k m y h x o l y k a x o k f y ; k j
l y s j h i l c k b Q h f e l] o h l v k j g h d l l Q h l b l
v k s l o b u k s v h j k , v h f v e k d k s x h k j d s # i e a
J s k h d r f d ; k A i k m y h x o l y k a x o k f y ; k d k s l c l s
f o u k ' k d d h v N k y N n d d s # i e a c s { k r f d ; k A
1 0 0 0 o x z e h v k d k j d s r h u H k f k . M M h & 1 1 3] l j h ? k k v
o u 1 / 2 k s y u o u c h k k x 1 / 2 v k s l y s v o u 1 / 2 g f e j i j o u c h k k x 1 / 2
e a f p g f u r f d ; k v k s p h m + i k b u d s d h v c k f . k t k r v k s
b u d s c k d f r d ' k = o / k a d k s c r j r h c p ; f u r o { k a l s
v f h f y f [k r f d ; k A i k m y h x o l y k a x o k f y ; k r f k
v l u ; H k a d k a d s f y , o { k v s d h c h k o d k f j r k d s e w ; k a d u
d s f y , n k s v k d k j k a 1 / 8 0 l s e h y E c s x 7 0 l s e h o { k e p r k
? k j k v k s 1 0 0 l s e h y E c s x 9 0 l s e h o { k e p r k 1 / 2 d s y v b k a
d k s 5 c k ; k s x d l f k y k a e a j [k s x , v k s d h v l f o ; r k v k s
i h y k a x o k f y ; k j o h l v k j g h d l # f o l b l , o a



LQbuktVhjk , Vhfjek dh vkcknh cpjrk dksyVBkadh ueh ek=k dsl kfk vfHkfyf[kr fd; kA 90 I seh- I s180 I s eh- ds?kjk jat dso{kadks; dk 1/10 I seh- I suhp½ vks ifjoDo 1/80 I seh- I s Åij½ LVSMka dh rnyuk ea mRihMue dsçfr vR; f/kd I ðnh ik; k x; kA vlx dh ?KVuk, avks vR; f/kd jky fu"d'kz k Hkx foLrkj dsçfr o{kadh I ðnu' khyrk dks<krk gA



Nky dh ijr ij QgfyaXh xSyjh I jpuK



i kNy/hxQI ykfxQkfy; k }kjk fu"d'kz I r dhVey



i h- ykfxQkfy; k }kjk pñM+kbu dk 'kqdu



i kNy/hxQI ykfxQkfy; k dk o; Ld



Nky ds uhp:fNnz I jpuK



Nky eafNnz I jpuK

tbfu; æ.k

ou jksi .kka vks i kSk' kkykvka ea dhV çCU/k ds fy, ehVkjfgft; e vk/kkfjr dod dhVuk' kd

egRo iwZou o{k çtkfr; ka ij çedk uk'kthoka dsfo#) fo'kkDrrk vks tbfu; æ.k {kerk dk vl; ; u djus ds fy, ç; ksk'kkyk ea i Pphl ehVkjfgft; e vkbl ksy/s/kadks i kSk'kr fd; kA I kxkSi fu"i=d] ghCyh; k l; jkj i fyxk eSkjfyI vks , yUFkl , DI YI k ds uk' kdH/kadks I Hkh , df=r ehVkjfgft; e vkbl ksy/s/ka dsçfr I ðnh ik; k x; k fdUrqvkbI ksy/s/kaejks tudrk vyx&vyx FkA df=e vkgkj dk mi; ksk djds ikys x; segkxksih Nnd ghfll i hyk jkHk Vh dsl kfk tbf fo'ySk.k usn'kz k fd 7 vkbl ksy/s/ budçfr jkst ud FkA foHkUu ek=kvk@I e; dsl kfk iz ksk'kkyk eao{kH; nhedk vks/kkS/vks/feI iztkfr; ka ds fo#) foHkUu vkbl ksy/s/ka dh jks tudrk dh tkp dh xbZ vks , y-Mh- 50 , oa, y-Vh- 50 dk ifjdyu fd; kA , yUFkl uk'kthokadsfo#) p; fur vkbl ksy/s/kads{kse= eV; kadu us 30&34% eR; zk dks n'kz kA vuktka Bkl ehM; k vks df'k vif'k'Vkae adod dk cgek=k I ð/kk ijhf{kr fd; kA ikmMj vks nò nks #ika ea i kV/s/ uked , d dod dhV uk'kd mRi kn tkjh djus vks {ks= eami; ksk gsrq\$ kj gA

yfi MkdVj kUu uk'kthokadsfo#) tbfu; æ.k , tbfvka ds #i eakbØkLi kSMZ, k

dy 94 'kYd iâ[k; ka dk ijh{k.k fd; k vks 29 çtkfr; ka l s ekbØkLi kSMZ, u ij tfo; ka dks i Fkd



fd; kA ghCyh; k l; jk] dS/kfll fy; k ikfi fyvks
 Mheksy; l] ikfi fyvka ikly/hVhl yokl ij] buls
 l æfU/kr ij i k s'k; ka l s i FkDdr chtk. kq/ka dh fo fHku
 l kUnrkvka d l jki .k djdstb fo'ysk.k v/; ; u fd; k
 x; kA ekbØk. i kMz; k dh 29 çtkfr; kadh vkdkjfevr dk
 v/; ; u fd; kA iæqk tkp iztkfr; ka ea ghCyh; k l; jk
 ea vkdkfjd] jkstudrk] xqku dh nj vls
 ekbØk. i kMz; u chtk. kq/kadsthou pØ ij v/; ; u ij k
 fd; k x; kA p; fur çtkfr; kadsfy, Vhbz, e- v/; ; ; u
 fd, x, A l Øe.k/kerk dh tkp djusdsfy, vl; ou
 uk'kthoka ea ghCyh; k l; jk chtk. kq/ka dk mi; kx
 djds l æj&fu"çHko v/; ; u fd; k x; kA

e/; çns'k ea l kxksu fu"i = dka ds çkdfrd
 'k=q

l kxksu ds çedk ukf'kdhVka ghCyh; k l; jk vls
 ; wDVksuk eBjfy] ds çkdfrd 'k=q/ka ¼ j tH; kHkq
 ij Hk{k; ka, oajkstudkz dsl æg.k dsfy, e/; çns'k ds
 l kxksu oukaevkorth l oçk.k fd; k x; kA ghCyh; k l; jk
 ds yokl ij ij tH; kHka dh ikp çtkfr; kq
 ; Fkk& bDFkrekHkz ukVysfj; k] VRQkdEi k bUMfic; k]
 çdhefj; k dh ,d vKkr çtkfr vls LVfiez, k dh
 rhu vKkr çtkfr; kq dhV ij Hk{k; ka dh rhu çtkfr; ka
 ; Fkk& dsyhMk Liyh fUMMyk] dSfkhQksuk
 Qh hzykVv vls Øhl ksjyk dkubz k] i {kh ij Hk{k; dh
 ,d çtkfr ; Fkk& dkubz eØghhokl vls vKkr
 edMh vls dodh jkstud dh ,d çtkfr
 ; Fkk& , Lijfyt] qlyc] }kjk vkØe.k ns[kk x; kA
 ; wDVksuk eBjfy] ds yokl ij ij tH; kHka dh vkB
 çtkfr; ka }kjk vkØe.k ns[kk x; k ; Fkk& , iBVhyhl
 eBjfy] , iBVhyhl] çdhefj; k vls LVfiez, k
 dh ,d vKkr çtkfr] ØheLVI ghi fy; k]
 VRQkdEi k bUMfic; k , oa tBFkfiEiyk l hjk vls
 l wdfed dh ,d vKkr çtkfr] dhV ij Hk{k; ka dh nks
 çtkfr ; Fkk& dBFkhdksuk Qh hzykVv vls Øhl ksjyk
 dkubz k vls vKkr edMh vls dodh jkstud
 dh rhu çtkfr; ka ; Fkk& , Lijfyt] ukbxj]
 C; whfj; k cfl ; kuk vls q; mtfj; e vkD l hLi k eA

, - qlyd l] , - ukbxj vls cfl ; kuk dk ç; kx'kryk
 l w/kz fd; k vls y{; uk'kn thoka ds fo#)
 jkstudrk ij Hk{k. k fd, A , d l {ke cgHk{k; dhV
 ij Hk{k; l h- Qh hzykVv vls bl dsoBfyid ij i k s'k; ka
 dh ikyu rduhd fodfl r dh xBA

dhV jkstud l wdfed dk mi; kx djds
 nhedkavls 'or Hkx çcl/ku

oDl ekHk xsyhfj; k ehykshyk dsç; kx'kryk
 l w/kz dkso'kz Hk; i k s'kr fd; kA bl h ds ifji Do yokl
 dks l w/kz ea l s le; & le; ij i fkd fd; k vls
 dkVifud ij i k s'k ds#i eaç; Ør fd; kA dhV jkstud
 l wdfed ds2 fonskt vls 4 nskt vkckfn; kadsl w/kz
 dks dkVifud ij i k s'k ; Fkk&ç; kx'kryk ea oDl ekHk
 yokl ij o'kz Hk; i k s'kr fd; kA e/; Hkjr; jkT; ka l s
 nskt vkckfn; k@vkl k s'k/ka ds fdQk; rh vls l Qy
 çgek=&xqku dsfy, mlur i j kehVjka l æf/kr ç; kx
 r s kj fd, x, A nhd vls 'or Hkx uk'kthoka ds
 fo#) bzi h, u- nskt vkckfn; k@vkl k s'k/ka dh tB
 fo'ysk.k {kerk dsfy, ç; kx fd, x, A e/; Hkjr l s
 vf/kd vkckfn; ka dks i fkd djusdsfy, e/; çns'k ea
 l oçk.k fd; k vls dthne ifj; kstuk dsl kxksu jki .k {k=
 e/; çns'k ou fodkl fuxe] tcyig ¼ LyEukkn] ftjh
 vls /khej [kHkz vls fMUMkjh ou çHkx] fMUMkjh
 ¼ djft; k] txrig vls vej d l d ½ dks feyk d nks
 LFkyka l s 40 ueus fy, x, A l kku; #lk l s ç; Ørk
 dhVuk'kd@tB iHMeduk'kh ds fy, bzi h, u- dh
 dhVuk'kh; l gu'khyrk@l ærrk ij vuq U'ku 'k#
 fd; k x; kA

fgekpy çns'k ea Hkjr; thll h ekHk
 ¼ yhefUV^a; k vkcQh dkV½ dk çcl/k

ikfjvuqly tBodh; fu; æ.k mik; kq
 mnkgj.k& uj 'kyHk dks i dMsvls ekjusdsfy, eknk
 fyax Ohjkeku dk mi; kx djds vls thokf.od
 dhVuk'k; ka ds#i ea çdhykko bjl ¼ y-vls, u-i-h-h½
 dk mi; kx djds nks igyqka dks bl ifj; kstuk ea
 viuk; k x; kA çr; d tkp ea 75 yokl ij çdhykko bjl



ds LVKkl ?kkyka l s5 ruudj.k dk mi ;ks djds tS
fo'ySk.k ç; ks fd; k x; kA 90% eR; Zk nsh xbA
, l hVksu foyk; d dk mi ;ks djds 100 o; Ld eknkvka
dh iV dh xLFk; ka l s Qhjkksu fu"df"kr vS ifj"dr
djds Hk.Mkfjr fd; kA bl s vlxkeh çtuu ekS e ds
nSku ç; Dr fd; k tk, xkA

ou i kS'k'kkyk ea l kxksu fu"i=d vS
dadyd dsçCU/k dsfy, tS i hMeluk'kh;
mRi knka dk eW; kadu

uhe vk/kfjr tS i hMeluk'kh 10-5%½ ds
fu; kstr , oale; c) mi ;ks us l kxksu dadyd ds
ykolZdsfy, 90% l Hkj djkskh çHko mRi uu fd; kA ; g
l kxksu fu"i=d } jk 80% v. Ms nns dks jklus ea Hk
fl) gq/kA ou i kS'k'kkyk ea l kxksu fu"i=d vS
dadyd dsfo#) vof'kV 3&7 fnu vof'kV çHkokacs
l kFk çR; {k eR; Zk ds fy, 0-05% fLiukl M
¼ fDVukekl hVh 45% bZi h , fDVukekl hVh tfohd;
mRi kn] okuLifrd l a kst u , xks tV bt+0-05% dh nj
ij] fl xuk 5-40% w/w ¼dhV of) fu; a d½ tS s
tS i hMeluk'k; ka dk fNMe ko çHkoh jgkA bZi h, u-
, p- bf. Mdk vS , l - dki kZ h dk ikyu fd; k
vS ou uk'kdhVka ds fo#) igyh ckj budh tS
çHkok i kn drk dk eW; kadu fd; kA 72 ?k. Vs
i 'p&vukor djus ea ç; ks'kkyk tS fo'ySk.k
½ek=k 3 l s 30 ijs yokl ½ eabZi h, u-] , p- bf. Mdk us
30 ijs yokl ij 10 ijs yokl 100% ij 76-47% rd
eR; Zk mRi uu dh iUkh mipkj fof/k ½ek=k&jat 32&
280 ijs yokl vFkok 3-88 ijs l s 32-00 ijs cm² ½ ds
ifj. kkeLo#i 130 ijs yokl vFkok 1553 cm² ij
78-94% vS 265 ijs yokl vFkok 32-00 cm² ij 100%
dh eR; Zk jat gqA {ks= fNMe ko ç; ks user; Zk dsfy,
5000 l s 10]000 l øfer twhukbYI@yhVj dh
vko'; drk dks n'kZ kA igyh ckj 3 nkt
bZi h, u- vkckfn; ka ¼ LVhuhuhZek çtkfr vS
2 ghVhj kj gS Mkb fVI çtkfr; kZ dks i Fkd fd; k vS
l Qyrki d i k'kr fd; k tk jgk gS D; kad e/
Hkj rh; ou /kj kry l s d k bZ i d f j i k s Z mi y C k u g h a
, p- bf. Mdk dh i h Mh- ch- l h- ul yka dks jkl k; fud

dhVuk'kd] mnkgj. kFk& bfeMD ykçM] eksukO kQkSt]
bUMkl YOkul Dyk j kb f j QkSt vS fFk, ehFkl e
¼ DVjk½ rFk uhe mRi kn , xks tV bt , oa Msj l e
¼ okuLifrd mRi kn½ ck; ksçkj ¼ QkVkj gSMI
cDVhfj; H; dUtoZ ¼ fLi ukd kM , fDVukl kbl hVh
mRi kn½ , oaf l Xek ¼ dhV of) fu; a d½ tS s tS i hMel
uk'kh; ka ds l kFk l a r ik; k x; kA jkl k; fud
dhVuk'kdka, oa tS i hMeluk'k; ka ds l kFk bZi h, u- dh
l gu'khyr l s; Dr yd j 5000 vS 10]000 çfr yhVj
dh nj ij bZi h, u- ds l kFk l a kst u okrkoj. kh; l ki çk
vknZk dh vPNh ek=k dh mi fLFkr eaçHkoh fl) gq/kA
dkVnkj , df'k; k ds fy, tSofu; a. k %
Hkj r ea [kkst

jktLFkku ¼ t kki g] gukux<+ Hkjri g vS
ikyh½ ea vS xqjkr ¼ kqt] ukfM; kM+ tuxx<+ vS
xk/khuxj½ ea l oZk.k vS cfg"dj.k ij h{k. ka dks rS kj
djus ds fy, v/; ; u LFkyka dk p; u fd; k x; kA
fofHku l oZk.k LFkyka eafu; fer vS ; knfPNd ueuk
p; u fd; kA çR; d LFky ea rkieku] vknZk ykbV
rhork] nS kUrj jS kAk , oa Åpk bZ i j vk d Ms v f H r y f [kr
fd, A l oZk.k ds nSku , df=r ueuka dh igpku dh
xbA xqjkr eachkoy(rkji g vS ukfM; kM+ l sl oZk.k
ds nSku , df=r fdVV dod ueuka dh igpku
jhohufy; k bo h l ds#i eadh xbA phpMh dh nS
çtkfr; k ; Fk&, Ecyhl h; l , yLVksu; k vS
çkuehV l çtkfr dks xqjkr l s , d= fd; k]
tcf d fppMh uk'ktho dh rhu çtkfr; k ;
; Fk&, Ecyhl h; l , yLVksu; k] Vhubi syl çtkfr
vS vklyxkuhd l çtkfr] dks jktLFkku l s , d=
fd; kA , df'k; k i k kadsfy, i j i ksh fof'kVrk tkp ds
fy, fdVV vS fppMh; ka dks çFkfedhd r fd; kA
t kki g] ikyh gukux<+ vS Hkjri g ¼ jktLFkku½ vS
xk/khuxj] ukfM; kM+ tuxx<+ vS Hknt ¼ xqjkr½ ea
cfg"dj.k ij h{k. ka dsfy, ççk.k ds rgr j [ks, df'k; k
fuyk fVdk ds 12 l l rkg] 24] 36 vS 48 l l rkg dsi kSka
¼ k ; i f j d , oa Hkne ds uhp d s i kni Åpk bZ i j k j k a dh
l a ; k] çfr i kni i fUk; kadh l a ; k] vk/kfj; ruk 0; kl]
tM+yEckbZ vS dny vknZHkj ij cfg"dj.k ij h{k. ka ds



vkpMsf'ys'kr fd, A xqjkr eajrhikj ou fjtoZl s , d's'k; k fuykVdk dser vls 'kqd o{kwal s iFKDdr ikni ijthoh l#dfe ctkr dh gkykyel bflMdl] , Qhyhæll , ohuk vls ghfydkW/hyhæll ctkr ds#i ea igpku dh xbA jrhikj vls Hkq ½xqjkr½ea, d's'k; k fuykVdk ds'kqd vls jksxZr o{kwal s, df=r enk uewkal sbu l#dfe; kadksi FKDdr fd; kA l Hk rhu ctkr; kaçdfr eaçkã&v/kz/Ur-%vls vUr%ijthoh ikbzxb] tkseç; r%ckã Årdka ij Hkj.k djrsgã i kskæaHkq ½xqjkr½eatM+dk u rlsÅrd {k; vFkok uk gh#) fodkl çs{kr fd; k x; kA

ckWsfudYI

, yUFkl , DI YI k] esykbu vkckj h; k vls MSYcftz; k fl LI wdsuk' khtho

y{; dr uk'khthoka ij eR; Zk] l Hkj.k] fujkska vls l Hkj.k]ksth çHkoka ds fy, , yUFkl , DI YI k] ySVkuk dekj] , xy ekehykd vls i kse; k] tVRQk dk dPpk l kj vls uhe ry dh tkp dh xbA dffkr ikni dk dksZ Hk dPpk l kj ijH{kr fdl h Hk uk'khtho&, Vhok Qfcfl yk vls bfyXek dkfl l l ¼ yUFkl , DI YI k½ ekbykdj l fMLdkWj] , e-fofjMsl MSYcftz; k fl LI wdsuk' khtho vls ; W/hj ksh thfeukVk esykbu vkckj h; k½ ds fy, çHkoh ugha FkA rFkfi i ksk'kkykvæavls ; çk jk] .k ea, yUFkl vls esykbu fu"i=dka dsfu; æ.k ea2&3% ij i kse; k vls uhe] tVRQk dsrsy kadksçHkoh ik; k x; kA

, xy ekehykd cht ry ds tð i hMæduk' kh; xqk

, xy ekehykd dsQy] yqnh vls chtka l s fu"dkf'kz 13 ea l s rhu ; ksdka us tð i hMæduk' kh; çHko fn[kk, vls ; s70% ykozy eR; Zk dsl kfk l kxks fu"i=d ghCyh; k l; jk ds fo#) çHkoh ik, x, A fuykEçj vls dgykFkürk dgy eajkt; ou i ksk'kkykvæa eal kxks dhv/kadsfo#) , dy ; ksdka, oadPpsl kjkads {k= Lrj tð i hMæduk' kh; eW; kadu us n'kz, k fd ; s dgykFkürk dh ryuk ea fuykEçj l kxks i ksk'kkyk ea ghCyh; k l; jk dsfo#) çg çHkoh ik, x, gsvls bl s of) çkksj ds#i eal h nçk x; kA



fuykEçj dgy eal kxks ij ghCyh; k l; jk dsfo#) , - ekehykd cht ry i wZl wkdj.k dk mi ; kx

l kxks fu"i=dka ds fo#) , Uuksuk LDoekd k l stð i hMæduk' kh

ikp foyk; d l kj ea l s vls 0-5% , Uuksuk LDoekd k ds, d ty l kj dsl kxks dækyd ykoldz ds fo#) l Hkj.k]ksth fØ; kdyki dsfy, eW; kadfr fd; kA vU; l kja dh ryuk ea i s/kyh; e bEçj l kj us 72-99% l Hkj.dj ksth fØ; kdyki ¼ h < 0-005½ n'kz, kA bl dsçk bEçby , l hv/ ¼ h < 0-05½} kjk 69-99 jgkA bl dsvykotj vuçhyre ek=kvædsfu/kj .k dsfy, çR; çl vk'ktud l kj ds25 ih-ih, e- l s3000 ih-ih, e- rd dh l klnrk@ek=k jat dsl kfk l a ksd tð fo'ysk.k us dPpsbFkby , l hv/ l kj ¼ h < 0-001½ ds800 ih-ih, e- l s Åij 70% l s vf/kd l Hkj.dj ksth dks n'kz, kA bu nsl kjkausfu; æ.k ¼ h < 0-001 df=24, F=14.00, SE(d) ± = 10.85, LSD (P.<0.05) = 22.40½ dh viçk 75-43 vls 78-84 çfr'kr l Hkj.dj ksth/krk dsl kfk l kxks fu"i=d ykold ea l Hkj.k ea vojksk Hk fd; kA bEçby , l hv/ ds fy, 50% l Hkj.dj ksth çHko çg çHkoh l klnrk Åijh , oauhyh fo'okl tu; l hek ds l kfk 524-80 ih-ih, e- ifjdfyr dh xb] tks Øe'k% 769-80 vls 435-78 gA i s/kyh; e l kj ds fy, EC50 Åij vls uhsdsl kfk 220-80 Fh] fo'okl tu; l hek 357-78 vls 114-52 gA dkWye Økæ/vkskQh



usi V/h; e bEj I kj I srhu çedk çHktk tS k Vh, y-
 I h }kjk I e; & I e; ij I fu'pr fd; k x; k gS dkm
 6a, 6b vS 6c dk bEkbby , I hvS I kj I s pkj
 ØkæS/kæfQd çHktk dkm 3a, 3b1, 3b2 vS 3b
 dk iFkdj.k fd; k gS ft I us I Hkj djksh vS of)
 fu; æ-d çHko dksçn'khr fd; kA ifj.kkæausn'kz k fd
 0-08 dh mPp I khrk ij 3b1 çHkt 74-49% I svf/kd
 i Ukh I j{k dsl kFk I kxk dækyd] ; WDVkuk eSjfyI
 ds fo#) vU; mipkja dh vi\$kk egRoiwz #i I s
 mRd"V P<0.001, df = 30, F= 8.34, SE(d)± = 10.64,
 LSD(P<0.05) = 21.95½ I Hkj djksh fØ; kdyik ds
 I kFk çHkoh gA fQj Hh 400 ih-ih, e- dh I khrk
 47-83% i Ukh I j{k (P<0.038, df = 29, F = 2.94,
 SE(d) ± = 17-92, LSD(P<0.05) = 37.38) ds I kFk
 I k[; dh; #i I s800 ih-ih, e- dsl erq; FkA çHkt
 3b2 dh fuEure I khrk fcuk fdIh egRoiwz
 I Hkj djksh fØ; kdyki (P>0.05) ds I kFk fu; æ.k
 ds I eku FkA bEkbby , I hvS ds çHkt 3b 0-05%
 1/500 ih-ih, e-½ I khrk 189-79% i Ukh I j{kæavS bl I s
 Åij egRoiwz #i I smRd"V I Hkj djksh fØ; kdyki
 (P < 0.001, df = 30, F= 174.01, SE (d) ± = 3.97,
 LSD(P<0.05)= 8.10) dsl kFk I cl svk'ktud fl)
 ggA I kj dh I khrk cækusdsçk dk; ðyki eaf)
 n[kh xBA iWZ; i;h; gksdsçk iwzcln ykozy Hkj
 mipkjr i fUk; kaij yxkrkj Hkj.k djrk gSvS fu; æ.k
 (P<0.05) dh ryuk ea I; i;h; Hkj ykozy vS
 iWZ; i;h; voLFkvaææR; zk dsl kFk egRoiwz #i I s
 çHkfor FkA tcd çkjFkd ykozy Hkjkaeal k[; dh;
 #i I s xS&egRoiwz (P>0.05) vlrj FkA 400 ih-ih, e-
 I s Åij I khrk, avflre ykozy HkjkaçHkfor djusea
 egRoiwz #i I smRd"V (P<0.033) FkA bl hçdkj iWZ
 I; i;h; Hkj Hh çHkfor ggA 100 ih-ih, e- I s Åij mipkja
 eal; i;h; dk dkbZfodkl ughaFkA 400 ih-ih, e- ij vS
 bl I s Åij I kxk dækyd] ; WDVkuk eSjfyI ds

fo#) bEkbby , I hvS I kj dsl kFk bl h rjg dsifj.kk
 çkr fd, x, A bl ekeyseai jhf{kr fuEure I khrk ij
 Hh dkbZ; i;h; fodkl ughaFkA

ghvksVz; k foVhl kMBMhl ds fo#) dN
 i kni I kj dsdhVuk'kh; xqk

, d fo'o fo[; kr vxkj ry mRiknd
 o{k , DokySj; k esyI hfUI I ykEd dk , d
 çedk uk'ktho ghvksVz; k foVhl kMBMhl eij
 1/5 % ikbjsyMk½ ds fo#) dN kni I kj ds
 dhVuk'kh; xqkædk eW; kælu fd; k x; kA , DokySj; k
 esyI hfUI I dh i kSk'kkykval kFk gh I kFk ; pk jki .kææ
 , d çedk fu"i=d ghvksVz; k foVhl kMBMhl dsçclv
 dsfy, LFkkuh; #i I smiyC/k çWfudYI dh tS
 {kerk dk v/; ; u fd; k x; kA çWfudYI
 mnkj .kkFk&, stSMjDVk bf.Mdk] ehfy; k
 , sthfMjkd] , dkj I dSyel] v/kkV&k okfI dk
 vS Dyjka/hv/ku foLkd e 1/2-5%] 5-0% vS 10-0%
 I khrk ij ijhf{kr½ dsl kFk tS fo'ySk.k ijhf{k.k ds
 ifj.kkæaus , dS'k; k bf.Mdk dsekeysea vfkdre
 95-0% I Hkj djksh dk; ðyki dks n'kz kj bl ds çk
 , dS'k; k dSyel dsekeysea 90-0% jgk

'kh'ke vS i kW yj ds çedk uk'ktho ds
 fo#) VktVhl ekbuWk I kj

; g çS{kr fd; k x; k fd fofkku jkl k; fud I kja
 tsth-ihbZ 1/4 V/h; e bEj ea txyh xnk½ tsth,-
 1/4 I hvS ea txyh xnk½ vS tsth, e- 1/4 Fkukly ea
 txyh xnk½ dh 1% I khrk ij 'kh'ke vS i kW yj ds
 çedk uk'kthokædsvukor djusds 72 ?k. Vçk çHkoh
 ik, x, A tcd tsth-MCY; w 1/4 kuh ea txyh xnk½
 çHkoh ugha ik; k x; kA çHkoh jkl k; fud I kja 1/4 tsth-
 , e-] tsth,- vS tsth-ihbZ½ dk tS fo'ySk.k fd; k
 x; k vS ; g çS{kr fd; k fd 2% I khrk ij yokZ dh
 eR; zk 33-33&53 çfr'kr FkA

i p x 0; vS n l x 0;

dS okfjuk dseç; k ukf'kdh/kædso#) ijhf{kr
 vkkud I Ekd i p x 0; vS n'kx 0; us n'kz k fd
 vkkud I w hdj.kæausu dgy ulf'kdh/kædsofu; æ=r



fd; k cfyd i ksk'kkyk voLFkkvka ds rgr of) dks Hkh c<k; KA 15 fnuka ds vUrjky ij 13% ij ipx0; vksj n'lx0; ds 12 jkm.M mi; ksk us d'okfjuk ij pwnkz eRdqk ds mRi hMtu dks fu; f=r fd; k vksj fu; a.k dh rnyuk ea 20% of) dks c<k; KA bl h cdkj 5% dh l klnrk us; wdsy lVI ij 40% rd xky l jpu dks ?kV; k vksj 14% ikni of) dks c<k; k] tcf d 3% l klnrk us l kxkS fu"i=d cHko ea 30% deh vksj ikni of) ea 12% c<k; jh dk c'n'ku fd; KA

ceq[k ou ukf'kdhVka ds fo#) enk , fDVukekbl hvht dh VKNDI u

e/; cnsk egkjk'v vksj NUKh x<+ds ouka l s ,df=r 340 enk uenka ea l s ofed rundj.k rduhd vksj i kV ly/ fof/k viukdj i kS/s kMDI Vkt , xkj ly/ka ij 9 , fDVukekbl hvht@cDVhfj; k i Fkd fd, x, A i FkDdr 3 , fDVukekbl hvht ea l s thok.kq cksj kSxdh l kFku] p.Mhx<+ea LVhVkekb l ht ctkfr dh igpu djds i fV dh xbA VKNDI ukadsmRi knu] , fUVck; kSVDI ds fu"d'kz ds fy, cks/kcdkV vksj i FkDdr , fDVukekbl hvht] LVhVkekb l ht ctkfr ds VKNDI uka ds jkl k; fud y{k.ko.ku gsgbl ds i Hktka ds fy, enk , fDVukekbl hvht dh l o/kz rduhd fodf l r dh xbA l kxkS] fl j l vksj egkuhe ds ceq[k ukf'kdhVka ds fo#) bl ds l o/kz fQYVj] i FkDdr , fUVck; kSVDI vksj fofHku cHktka ds fo'kDrrk ij h{k.k fd, x, A enk , fDVukekbl hvht ds 0; ki kfjd #i l s miyC/k xkSk mRi kna bojesDVu vksj fLiukd kM½ dks l kxkS] fl j l] cl vksj egkuhe ds ceq[k ukf'kdhVka ds fo#) eV; kdr fd; k vksj cksV fo'y sk.k }kj k budh l ki sk {kerk vksj fo'kDrrk ½ c₅₀½ dh x.kuk dh xbA mi; Dr ctkfr; ka dh ceq[k ukf'kdhV ds cjk fEHd vure bulVkj yokz ds fo#) bojesDVu vksj fLiukd kbM ds {s= , oa iz ksk'kkyk ij h{k.k fd, x, A bojesDVu vksj fLiukd kbM dh fo'kDrrk dh tkp ds fy, bl l kFku ds dhvky; ea i ksk'kkyk voLFkk ea {s= ij h{k.k fd, x, A ifj.kkeka us n'kz k fd xkSk mRi kna bojesDVu vksj fLiukd kM½ ds i.kz; mi; ksk }kj k bu uk'kthoka cCU/k u gkl y fd; k tk l drk gA

vksk/kh; i kni kadsukf'kdhV

'kd' vksj v/kz&'kd' {ks=ka eamxs egROI w kZ vksk/kh; i kni kads l {ke ukf'kdhVka dk cCU/k ukf'kdhVka dh ikp ctkfr; kavksj jkskadh rhu ctkfr; ka dh tkp l ph rS kj dh xbA l ktr jkM ¼ kyh½ ea egnh ¼ ykV ksu; k bujfel ½ mxs {ks=ka ea vdb; k tukV k ¼ kM VbMk½ , d l feyij dk vR; fkd mRi hMtu n[kk x; KA eq; uk'ktho ; Fk&vdb; k tukV vksj , fQM xkV hi h dh tS ikj fLFkr dh dk v/; ; u fd; k x; KA enk mipkj ¼ 0g VRbdkMez \$ 5&0 fd-xk ofeZ EI kV \$ 15g QkS½ vksj i.kz; fNMelko ¼ 0-02% cfr jksk½ egnh fu"i=d ¼ vdb; k tukV½ vksj , fQM ¼ fQM xkV hi h½ vkØe.k ds fo#) l okke ik; k x; KA #i; s150 cfr oxZehV l ykV dh dy ctkfr vksj vksj r 'kqd Hkj 2-00 fd-xk- ds l kFk vuq pkjr fu; a.k dh rnyuk eami pkjr HkV.k.M dk vksj r 'kqd Hkj #i; s185 cfr oxZehV dh dy ctkfr ds l kFk 2-47 fd-xk- vfhkyf [kr fd; k x; KA bl cksy ea nhedka vksj engksey vkf l rk ds fo#) C; wsf; k cfl ; kuk &1 \$ QkS½ dkf.kdkvka ds l kFk 10 xk- cfr fd-xk- cht \$ enk mipkj dh nj ij VRbdkMez gkftZ ue dk mi; ksk djds cht mipkj l okke ik; k x; KA Øe'k% 3670-80@& vksj ~ 2679-60@& cfr HkV.k.M dh dy ctkfr ds l kFk vuq pkjr 76-56 fd-xk- LVkoj@lykV dh rnyuk ea mipkj HkV.k.M ¼ eh x 5 eh½ 104-88 fd-xk- LVkoj@lykV dk mRi knu fd; ka

fgekpy cns'k ea egROI w kZ vksk/kh; i kni kadsukf'kdhVka dk fu; a.k

ikp dhV x.kka mnkgj.k& ysi Mkshjk] dkV/hvksVhjk] gselVhjk] vkfVshjk] gfeuksVhjk vksj 24 ifjokk Jskh vjkdfuMk l sl efU/kr dy 37 dhV ctkfr; ka dks i ksk'kkyk ea mxs p; fur 5 vksk/kh; ikni kals, d= fd, x, A fi Økj kb tk dj k k jkVyh , DI cBk] , ØfV; e ylik fy] ghj s Dy; e dSUmdb l oky , DI Mh-l h , Ut hfydk Xywdk bT; w l kS jh; k dkVVI QkYd vksj ofyfj; kuk tVked h tk l dks mRi hMtu djus okys l kS jh; k



dkwVI ij lyfil ; k vkfj dyl h; k Qs dh tsoch ij v/; ; u usn'kz, k fd dhV vcsy dsnt jsl l rkg l stw ds vflre l rkg rd dkQh l f0; FkA ekpZ l s tw rd pkj vkjybi x l urfr; ka dk v/; ; u fd; kA 5&6 fMkdh buLVkj] 16-25 ± 2-6 fnu dksk volFk vls ; ks'kkyk ea 35 fnuka ea ijk thoup0 ijk gvkA ; ks'kkyk ea uk'ktho dh rhu if<+ka dk v/; ; u fd; k x; kA uk'ktho ekpZ ds nkjku {ks= eafn [kuk 'kaf glrk gsvls bl dh vfkdre l f0; rk ebZ vls tw ea vfhfryf [kr dh xBA ; ks'kkyk ea Hkjh fMkdh 1/4 hl js vls pksbULVkj 1/2 er; rk vfhfryf [kr dh xBA eknk dh tuu'kDr 113 l s 228 v. Ms Fk vls dy thou p0 fofHku efguka ds nkjku 27 l s 38 fnuka ea ijk gvkA fMkdh ij th0; Hka dks nks ctfr; ka ; Fk&, i BVsyhl Xykehj l vls , i BVsyhl #fQ0l vkfymz l fip dh xbZ vls bu ctfr; ka }kjk ij thohdj.k dh l hek vcsy ebZ vls tw ea 0e'k%13-3] 21-2 vls 25-0 cfr'kr FkA dhV jkstud ftl ds QyLo#i {ks= ea l kfk gh l kfk ; ks'kkyk ea fMkdh vls l; iy vkcknh dh cMv i kus ij er; rk gh dh igpu cfl yl l hjh; l fdLe ekbdMhl 1/4 ym h/2 fLEFkj xkMz vls DykdZ ds #i eadh xBA v/; ; u usn'kz, k fd ; stsoch; fu; a.k , tV uk'ktho ds ifjvuqnyu cu/k ea, d egROI wZ Hkedk vnk dj l drk gA fofHku dhVuk'kdka, oaf0 i Hmeluk'k; ka; Fk&5-0% dh nj ij xksue] 0-03% dh nj ij eksuk0k/Qkst] 1% dh nj ij buMkl YOku] 30 xk- cfr oxZ dh nj ij 1; jMku 3 th] 0-02% dh nj ij nq Zku] 0-05% dh nj ij jkskj] 500 xk- cfr oxZ dh nj ij uhe ds vls syhfj; kuk tVked h ea 5-0% dh nj ij lej ry dk i ksk'kkyk ea eW; kadu fd; k x; k vls ; g ik; k x; k fd 0-1% dh nj ij buMkl YOku vls 0-2% dh nj ij Dykiki kbjQkst i ksk'kkyk ea uk'ktho dks fu; a=r djusea cHkoh FkA ; w, p- o , Q- uksh] vkbZ, p-ch-Vh- i ykeig vls vkbZ vkbZ, e- tEw l smipkjr iknika dk dhVuk'kh; vof'kV fo'y sk.k dj; k x; k tgk; ifj. kkeka usn'kz, k fd 0-1% dh nj ij buMkl YOku] 0-03% dh nj ij eksuk0k/Qkst] dkMl; jku 0-02% dh nj ij Dykiki kbjQkst dk ikni ds ; Dr Hkx ea vof'kV

chko gvkA vr%; sdhVuk'kd i ksk'kkyk ea uk'ktho ds fu; a.k dsfy, , d vPNk fodYi ughagA

dhV cfrjkskh tuun0;

xky uk'ktho ds fy, ; wdfyVI ctfr; ka ea cfrjksk dh tkp

mPp mRiknu dsfy, igpusx, ; wdfyVI dsdjhc 210 Dyksukadks9 fofHku l xBuka l s, d= fd; k vls ou vkuoA'kdh , oao{k ctuu l Hfku] dks EcVij dh i ksk'kkyk , oakuLifrd xqku m | kuka ea l afgr fd; kA l R; oMw 1/4 kV/kz cns k/2 ea, d gMw Li kMw {ks= eabu Dyksukadh tkp dsfy, , d ijh{k.k l Fkfir fd; k vls ijh{k.k ea djhc 179 Dyksuka dks jksi r fd; k x; kA l R; oMw 1/4 kV/kz cns k/2 ea vls iukei Yyh 1/2 jy 1/2 , oa HkrHkij fo'fo | ky; 1/2 feyukMj ea okuLifrd xqku m | kuka ea xky dhV] yhlVkd kbch blokl k ds v0e.k dsfy, bu mPp mRiknu Dyksukadh tkp cxfj ij gA

rfeyukMj djy vls vku/kz cnsk ds rhu fofHku LFkuka ea Dyksukh; ijh{k.k ka ea mxk, x, dy 100 ; wdfyVI Dyksuka dks uk'kthoka , oa jks l eL; kvka ds fy, egROI wZ #i l s xky dhV] yhlVkd kbch blokl k dsfy, eW; kadu fd; kA nks l kyka dh vof/k ea, df=r {ks= vkMka usn'kz, k fd djhc 25 Dyksuk xky dhV ds v0e.k ds cfr vr; f/kd l onh FkA 71 Dyksuka ea v0e.k dk fuEu l s l k/kj.k l rj nq k x; kA djhc 4 Dyksuka usdoy v. Mjki .k {kfr dks l rr-#i l s 0; Dr fd; k vls dks ZHh xky fodkl ugha nq k x; kA xky dhV] yhlVkd kbch blokl k ds thou p0 ij v/; ; uk ea 82&95 fnukadschp FkA

xalkhj Nky l Hkj d uk'ktho] buMjcsyk DokfMuk0k/vk ds fo#) dStokfjuk bfDol hfVQkfy; k

cfrjksk nsus okys Dyksuka ds QhukMl] Vsuu] eDr olh; , fl Mka vls Qhukfyd , fl Mka tS s tS jkl k; fud , oa Hksrd ; ksdka ds l mHk ea xalkhj Nky l Hkj d uk'ktho buMjcsyk DokfMuk0k/vk ds fo#) dStokfjuk bfDol hfVQkfy; k ds 10 p; fur Dyksuka l ki sk cfrjksk dh igpu dh xBA fofHku



vk; kfr r dk"Bka dk çkdfrd {k; çfrjks/k
çkdfrd {k; çfrjksk dsfy, ijhf{kr vk; kfr
dk"Bkaej ratkfu; k vksj vLVsy; k l sl kxksu dk"B l Hk
tkp {k; dod dsfo#) vR; f/kd çfrjksk ik, x,]
tcf d YkU l , oacsfyt; e l sl eqzrV dk"B vksj YkU l
l s, Sk dk"B çfrjksk ugha FkA

Qy vksj cht dsl kFk l Ec) dod
fofHku Qy@cht uewka l s iFkd d r d y
150 dod dh igpku dh xbA bueal s40 l {ke ikni
jksxtud Fkç ftlga dbZ vl; ij iks'k; ka ea buds jks
foKkuh; çHkokadsfy, l fpr fd; k x; k gA vkbl ksy/s/ka
ea Hk.Mkj.k dod 'kfe y gS tS & , Lijftyl
ukbxj] , - [ypl] jkbtksi l LVksyksuQj]
jkbtks; wj ofj, fcyll E; wj E; w hVks
VRbdk/lekzfofjMh] Vh- dksuach] Vh- L; hVksdksuach vksj
Vh- gkftz ue A ;sdod cht foxyu] fl dVw] cnjx
vksj vofkz , oadetj veltj .k tS scht LokLF; l el; kvla
dks mRilu djus ea , d çefk Hkedk vnk djrs gA
i k l yksh; jkbl bfUMde cht ij çVfu; k gkEcok
u, ij iksk vfhky[k ds #i ea l fpr fd; k x; kA
Mh- ekykçjde Qyka , oa chka ea 75&90%
[; wt sj; e ofVl ykblMh l De.k ik; kx; kA ; |fi l h
l YQj ve vksj , p-ik k cht k eadodh l De.k Fkç fQj Hk
veltj .k {kerk çHkor ugha FkA , l - ekykçjde vksj
, e- ykxQkfy; k eadodh l De.k de FkA

nl dodh çtkfr; ka ; Fkç, YVjufj; k
, YVjukVj] , Lijftyl ukbxj] l hQsyk i ksj; e
çtkfr] ds/kfe; e Xyksk el DyMk i ksj; e
çtkfr] [; wt sj; e bfDol hVh] [; wt sj; e
vkd l hLk je] i fufl fy; e fl fvue] jkbtksi l
LVksyksuQj vksj VRbdkFkfl ; e jksth; e dh
igpku dh xbZ vksj ikbul thjkfMz kuk dscht ka dks
Hk.Mkj r fd; kA i fufl fy; e fl fvue Hk.Mkj.k ea
fpykst k cht dksçHkor djusokyk l cl sç/kku dod
FkA ; g çs{kr fd; k x; k fd 40% cht foxyu 25 fm-l s
ij ik; k x; k vksj i fufl fy; e fl fvue ds dkj .k
0 fm-l s ij 8% cht foxyu çs{kr fd; k x; kA

dod eavkf. od i fjon'u' khyrk
fnYyh ¼ u-l hvkj-½ gfj; k. k] iatkc] mükj
çnsk vksj mükj k [k.M l s, df=r x&kA/lekzyfil Me dh

63 Qyu dk; k eavkd kfjd; l o/kzud fofHkurk dk
v/; ; u fd; k x; kA th yfil Me ds fofHku
vkbl ksy/s/ka ds chp okuLifrd l xrrk ij h{k.k fd,
x, A ij iksk çtkfr; kadsv/kkj ij vksi h, -3 çkbejkaus
th yfil Me ds vkbl ksy/s/ka dks fofHkndir fd; kA
Mh, u, - vuøe.k ds vk/kkj ij x&kA/lekz dh nks
çtkfr; ka th jfl ud h; e vksj th ohchfj, ue dk
l xg.k l siFkd fd; k x; kA th ohchfj, ue Hkjr ds
fy, , d u; k vfhky[k gA bd; kou vkbZVh, l - vuøe
thu çd ¼ kVh; tS çks kx dh l pouk dshz; w, l -,
dksçLr fd; k vksj , u-l hchvkBz os l kbV ij tkjh
fd; k x; kA vuøeka dks vl; thu çdka }kjk l efoV
, oa tkjh fd; k x; k] mnkgj .kFkç; jkçsi ; u ekVhdw j
ck; ksyk h yskj s/h U; DyhvksVM l hDol MKVksç]
; wds (<http://www.ebi.ac.uk/embl/>) vksj Mh, u, -
MKV çd vkd tki ku (<http://www.ddbj.nig.ac.jp/>) A

çkbej vksi h-bz&2] vksi h-bz&3] vksi h-bz&5 }kjk
vkj-, -ihMh&ih-l hvkj- ds ckn l hfYUMRdySM; e
fDolDohI hV s/e ds 82 vkbl ksy/s/ka ds , d l a Dr
MhMkske l ftr fd; k x; kA U; Dyh; j r DNA dsvkB
Hkhrjh çrfyfi Lidj {k- vuøe vksj dod
l hfYUMRdySM; e fDolDohI hV s/e ds fofHku
vkbl ksy/s/kadsN%chV k V; wfyu thu vuøeka dks thu
çd , u-l hchvkBz (<http://www.ncbi.nlm.nih.gov>) dks
çLr fd; k , DI s u ueç vkçVr fd, A enk jksxLr
iknika vksj l hfYUMRdySM; e fDolDohI hV s/e
iUkj Vguh vksj iksk 'kh.krk ds l kFk l øfer
i'p&l jkç .k io&jks l pd ; wdsyVI ikni uewka l s
bl jksxtud ds Mh, u, - fu"d'kz k dsfy, çks/kçkly/ka
dsekudhdj .k dsckn uskfud fdV fodfl r dh xbA
; g l hfYUMRdySM; e fDolDohI hV s/e dh igpku
eal gk; d gsvks jks Hkfo"; ok.kh dsfy, ç; Dr dh tk
l drhgA

vkj-, -ihMh-½ çjrtç ifjofkz çg#ih Mh, u, ½
dsfy, 60 çkbejka dh tkp dh xbZft l eal s32 çkbejka
usl x r çg#fi rk dksn'kz kA 32 çkbejka eal scg#fi rk
dsfy, 18 çkbejka dk fo'ysk.k fd; k x; kA ; w h-th, e-,
fof/k dk mi ; kç djds l Hk vkbl ksy/s/kadsfy, , d l a Dr



MhMhkte fufeZ fd; kA 15 vkbl ksy/s/ka dk ihl hvkj-& vkj-, Q-, y-ih- fd; kA fgely; u ?kkl LFkykads dod dkmhZ \$I I kbusul I ds fofHku vkbl ksy/s/ka ds U; Dyh; j rDNA thu dsilng 185 rDNA thu vLj vVBkbl Hkrjh cfrfyi Lid j {k= dks ifjof/kZ} vuøfer djds , u-l hch-vkbZ dks çLrnf fd; k rFkk , DI d u uEçj vkcVr fd, A

i kM/yjka ea i .kz 'kh. kZk jksx mRiUu djus okys MhDI yhj çtkr ea dkyksh y{k.k} jãdrkj of) ehfm; k ¼ hMh-, -] I hMh-, -] , e-bZ, - vLj , l-ih-, -½ ij fd; k x; kA fofHku I ø/kZud , oavkdKjdh; i jketVjka ; Fkk&dnyksh fdLe] dnyksh jak jãdrkj of) nj] chtk.kfdle vLj vkdkj , oavdg .k ds }kjk i kM/yj ea i .kz; jksx mRiUu djus okys OkbySLVDVt@Okk çtkr dsvkbl ksy/s/kadh fofo/krk dk vl/ ; ; u fd; kA

dkMhZ \$I I kbusul I ea tç I fØ; rRo ou vud Uku I h.Fku] nsjknw }kjk fodflr çks/kcdkly ds vud kj f>akjk ea dkmhZ \$I I kbusul I ds fofHku vkbl ksy/s/ka dks mxk; k x; kA iPphl vkbl ksy/s/ka dks 6 ekg dh of) ds mijkUr no ukbVkt u eapir. kZ fd; k vLj dkmhZ hfi ul , Mhukl u , oabxkVhjkly ek=kvkadh mi fLFkr dsfy, , p-ih-Vh-, y-lh- }kjk buds tð I fØ; rRoka dsfy, fo'yf'kr fd; kA bu tð I fØ; rRoka dh mi fLFkr vkbl ksy/s/kadsvksh; ekukadln' kZ h gA

Hk. Mkfjr m" .kdfVca/kh; çdk"B dk"B {k; egjk"Vª ds 12 dk"B fMiks vLj mMh k ds 25 dk"B fMiks l s34 ijiksh uewka ds dk"B yVBka ij dk"B {k; dkjh dod ds l kr I kS i fkyhl uews , d= fd, A dk"B {k; dkjh dod dschl oak , oa44 çtkr; ka dh igpku dh xbA bu ea l s l ky vLj chtl ky ij mMh k , oa egjk"Vª l s 4 oak ; Fkk&gsyksiyl] I hfjiks jvksll I] fLdtkQkj k vLj i kSLV; Rj vLj 7 çtkr; ka ; Fkk&gsyksiyl fuMnybl] I hfjiks jvksll I eh#fyul] VbhVI vkØ h; kj i kSLV; k lys BVkj fLdtkQkj i j kMkDI kj ihDuki kj I dMhDI uh; I vLj

ihDuki kj I fl esfjul dks igyh ckj vfhkyf[kr fd; k x; kA vf/kd vl/ ; ; u dsfy, i Pphl I ø/kZadskh i kS'kr fd; kA fkyokk/kMly fyoI ds {k; çfrjksk ds fo#) ; jh; k , oafat I QOv dh fofHku I kUr k ij fo"kkDrrk ¼ k=½ dh tkp dsfy, , d ç; kx fd; k x; kA i kj Ei fjd dk"Bh; f'kyi ea I eph dk"Bokl h dod

fo'kk[kki VVue ftyseaeNyh i dMedsdxkpa ; Fkk&ihMkykjhi s/k vLj feefuiVue l s , uksth I , dfeukVt dscusds/kejsu I sdodh l s xLr idk"B , d= fd, A , df=r uewka ea dod dks l øf/kZ fd; k vLj 13 vkbl ksy/s/ka dks i Fkd fd; kA vo'kSk.k dh fofHku ek=kvkæadkMj Okk vki kud dk"B ifjj {kd ds I kfk , uksth I , dfeukVt vLj efxQjk bMdk ds çdk"B oSIL dks mipkjr fd; k vLj , dy dodh vkbl ksy/s/kadsfy, mudh mRi hMue I fØ; rk grqvukoR fd; kA vudka dodka ea , Lijthyl fyoI dMkysj; k çtkr vLj f; vt sj; e çtkr; ka; gkard fd 27-6 kg m⁻³ ds ifjj {kd /kj.k ij Hh oSIL dk mRi hMue djrsgq ikbzxbA

fu; æ . k cwkufu; k yat u ds jkska dk jkl k; fud fu; æ . k N%mi pkjka; Fkk& fMFksu 0-1%] 0-2%] çfofLVu 0-1%] 0-2%] jhMksey 0-1%] 0-2%] ea l s jhMksey 0-2% bl ds ckn jhMksey 0-1% dk i .kz; fNMelko i kS'kr kyk voLFkk ea f; vt sj; e vkbl hLi kje }kjk mRiUu Eykfu jkskadso#) vR; f/kd çHkoh fl) gqkA t fodh; fu; æ . k vLj okuLi frd dodfo" k

VtkdkMekZfi yfyQhje vLj Vh- fofjMh ds [kbl l h-dj.k us mipkjr , Lijxl jã hkd I i kni ka ea tM+ tðek=k ea egROI wZ of) dh vLj tM+ jkskadksfu; f=r fd; kA

e/; çnsk vLj NÙkhl x<+ds fofHku LFkkua l s enk uewka l s , d , fDVukekbl hvh vLj 15 çfrjksk h



cDVhfj; k] ,d dod dk iFKDdk.k ,d= fd, x,A foFkkfu; k l kSEUQjkl jkoksYQ; k l iBVkbuk vLj DykjkQkbVe cksjfofy, ue dsiknikaij igpku ,oa jkstudrk ijh{k.k fd, x,A tS ihMeluk'kh 1/2ks ew \$,stSMjDVk bMMDk iFYk; ka \$,yUFkl ,DIYI k iFYk; ka \$ dSyks/RMI l iks hjk iFYk; kS ds l kFk vLj fofHku iksk'kkykva dh enkva l s iFKDdr ifrjkskh l we thoka ds l kFk pkj dodh jkstudka ds fo:) tS&fo'ySk.k ijh{k.k l fuf'pr fd, x,A pkj ifrjkskh cDVhfj; k@, fDVukekol hvht usik=sjks tud dh of) dks fu; f=r djus ea viuh iHkkodkfjrk dks n'kz ka

tkSki g 1/2ktLFkku 1/2 ds lehi l s cysukbVhl , thxvVdk 1/2tM+ iFYk; ka vLj Nky1/2 VhYkSl ; k i iijh; k 1/2 iFYk; ka tM+ cht 1/2 fl Vky l dksykd hfUFkl 1/2 iFYk; kS ,d= dh xbZ vLj bFksky ,oa ty l kj dks rS kj djus ds fy, 'kM eal q'kk; k x; ka vf/kd vl/ ; u ds fy, 50 fe-xk@fe-yh@foyk; d dh nj ij l kjkadk mi ; lsc fd; k x; ka ou jks foFku iHkkx] ou vuq akku l bFkk] nsjknw l s dodh jkstudka ; Fkk& jkbt kDVksu; k l ksykuh] vLj- cVkfVdksykl 9; ut:fj; e l ksykuh vLj vYVjusj; k vYVjukVh ds fo'kd l o?kz ikr vLj iks'kr fd,A pkj tko dod ds fo:) bFksuklyd l kjkadk ijh{k.k fd; ka 9; ut:fj; e l ksykuh dh of) dks jks useafl Vny l dksykd hfUFkl 1/2 iFYk; kS ds bFksuklyd l kj iHkkoh ik, x,A

vYVjusj; k iztkfr] 9; ut:fj; e vkDI hLi kje ,oadkVhVksRbde Xytkvks i kSj vkbVhl 1/2c₅₀ 2.0% 1/2 dks NkMlej l Hkh tko Qach ds fo:) l Hkh l kUnrkvka ij l s tMI endkjd h 1/2; kjgnsh/dsehFksukly l kj usrc₅₀ dks inf'kr fd; ka X; kjgnsh ds C; wkukly l kj us vYVjusj; k iztkfr vLj , Q- vkDI hLi kje dks NkMlej l Hkh tko dod ds fo:) l Hkh l kUnrkvka c₅₀ dks inf'kr fd; ka

Hk.Mkfjr vLsk/kh; ikni mRikn eaLi kVyst Qach dh of) vLj vadg.k jksus ds fy, fl Vksuhyk ryl ygl q ryl yeu ?kl ryl vLj vtokbu ryl ds ok'ik'khy iHko dks l Qyrki wZ LFkfr fd; ka vLsk/kh;

ikni mRikn ds Hk.Mkj.k ds nSku Li kVyst Qach ds fo:) rylka ds l a kst u ds ok'i'khy iHko dks Hkh ijhf{kr fd; ka foFkkfu; k l kSEUQjkl Hk.Mkfjr tMkds fy, l Hkh Li kVyst Qach ds fo:) rylkads l Hkh l a kst u iHkkoh ik, x,A LVhf; k jscfM; kuk Hk.Mkfjr iFYk; ka ea dodh mRihMta dks jksus ea yeu ?kl ,oa ; wdsyVI ryl vLj fl Vksuhyk ,oa; wdsyVI rylka ds l a kst u iHkkoh ughaFka

2-7-3- ekbdkj kbt kl jkbt kfc; k vLj vU; mi ; ksxh thok.kq

okg; ekbdkj kbt k 1/2 bZl h-, e-1/2 dod

ik=s voLFkk ds rgr nks bZl h-,e- Qach , y- Yvukz vLj ih , Ycl ds fofHku vkb l ksy/kads cgek= mRiknu ds fy, mi ; q r l o/kz ehM; e] vkn'kz ih-, p- vLj rkieku voLFkkvka dks ekudhr fd; ka iksk'kkyk ea y; dr o'k iztkfr; ka ds of) l dks ds fy, l jksi dh mi ; q r fdle dh igpku ij vf/kd vl/ ; uka us n'kz k fd , - vlfjdfryQkMz l dSokfjuk bDol hfVQkfy; k vLj l h- > akngfu; kuk ds fy, ih-, Ycl 3 dsokulifrd ekbl hf; y l jksi vLj , - eht; e ds fy, ih-, Ycl vkb l ksy/ 2 vLj 4 mi ; q r ik, x,A tcd ih-, Ycl vkb l ksy/ 3 ds csl fMvks i kS l jksi ; wdsyVI deYMyuf l l ,oa ; wdsyVI vjSVdMlUz ds fy, mi ; q r ik, x,A dSokfjuk ea ih-, Ycl 1/2 vkb l ksy/ 3 1/2 dsokulifrd ekbl hf; y l jksi bl ds ckn ih-, Ycl 1/2 vkb l ksy/ 1 vLj 2 1/2 ds bl h rjg ds l jksi ds l kFk l jksi r fol offer ik= ehM; e eamxs i kSkaeaxLFk vkcknh mPp i kbZxbA tcd vLsdwkyj bZl h-,e- l jksi dh fdleka us bZl h-,e- mifuoskhr tMk 1/2 dod 'k'kz dh vPNh l q; k n'kz ih-, Ycl 1/2 vkb l ksy/ 3 1/2 ds csl fMvks i kS l jksi us l Hkh o'k iztkfr; kaeacqr mPp dod 'k'kz dks egRo i wZ : i l s inf'kr fd; ka

vle ea fMIVhjkdk i kZ vLj 'kSj h; k iztkfr ds l kFk ekbdkj kbt y l a kka dh fof/krkA fMIVhjkdk i kZ jhV l l] 'kSj h; k jkbt k Vk vLj



, I - vl kfedk dh ekbdkjkbty tMka ds l kfk okg; ekbdkjkbty dod vks ewy ifjosk enk , d= dh xbzvks idfr eaNk; kfp= fy, A jx : i] vkdkj] xak vks ifr l vVhetVj ftYl dh l q; k tS sQy dk; k ds vkdkfjdh; y{k.kka dks {ks= ea vfhkryf[kr fd; kA ikp fofHku okg; ekbdkjkbty dod vfhkryf[kr fd, vks ftl ea lsrhu dh igpu : l myk] yDVsj; l vks vekfuVk iztkfr ds: i each xBA : l myk iztku iztkfr Fkh, oabl sl Hh p; fur iztkfr; kadsl kfk l Ec) ik; k x; kA vkclLdnyj ekbdkjkbty dod

ewy ifjosk enk vka dk fo'ySk.k fd; k vks p; fur ikni iztkfr; kadsl kfk var%ekbdkjkbty l cak eaXykel/ iztkfr l cl siztku ikbzxbA rFkfi] Xykel/ iztkfr; ka dk ifr'kr l De.k cgr de FkA Hkoh v/; ; u vks l mHkZ dsfy, l Hh iztkfr; kadsvknZ vks 'kqd ds: i ea j {k x; kA i kS/s/ks MDI Vkt , xkj ij l af/kr dod ds fo'kq) l o/kka dks mxk; k x; k vks iz kx'kkyk eai kS'kr fd; k tk jgk gA

ewy ifjosk enk ueus , d= djus ds fy, ukx [kye vkjf{kr ou] ukx i ksj] esky; %mErkl kj vks ukx i ksj 1/2 ea l oZk.k fd; kA fofHku ikni iztkfr; ka l s dy 80 ewy ifjosk enk ueus , d= fd, vks vUr% ekbdkjkbty xqkkRed , oae=kRed fo'ySk.k dsfy, tkp dh xBA nksç/kku , oal {ke vUr% ekbdkjkbty ul ya %Xykel çtkfr , oa tkbx&i kj çtkfr 1/2 tks bu ou enk vka ea çpfyr Fkh] dks i Fkd fd; k vks ç; kx'kkyk ea l jki mRiknu , oacgk= l o/kku ij h{k.k dsfy, vksçf; k ds vUr xZ gA

rfeyukMqvks djy ds fofHku Hkxka ea nskt o{k çtkfr tS & , yUFkl , DI Yl kj , yUFkl VtbDhl kj uhvksyekfdZ k dnEck] esykbuk vkckjh; kj ehfy; k Mfic; k vks MSçftZ k yfVQky; k ds tM+{ks= l s , df=r tMka vks ewy ifjosk enk ueus dks çOfer fd; k vks vkclLdnyj ekbdkjkbty dod dh enk chtk.k vkcknh rFk çfr'kr tM+mifuosku vkdfyr fd; kA fofHku nskt o{k çtkfr; ka ds ewy ifjosk l s rhu oak ; Fk&, D; myk&i kj] tkbx&i kj vks Xykel l s

l af/kr l Ukkbl fofHku vkclLdnyj ekbdkjkbty dod vfhkryf[kr fd, A bu ea l sthul Xykel ç/kku ik; k x; kA bl dsckn , Dosykt i kj jgkA

, df'k; k vktj dnyOkMe]] VDVksk xBMMI] dsOkfjuk bfDol hfVQky; k vks ; vdsyVI deYMyfVI l iknika ds fy, vkclLdnyj ekbdkjkbty 1/4, e-1/2 dod ds l cak dksnç kusdsfy, l oZk.k fd, x, A ifj. kkaus l Hh p; fur çtkfr; kaa , -, e- dod ds l kfk dod l gikS'krk ds mPp Lrj dks n'kZ, kA dy feykdj ikp oak l s l af/kr dod dh 10 çtkfr; kadsvfhkryf[kr fd; kA f'kksck {ks= eaç/kku çtkfr; ka tkbx&i kj Xykel vks Ldyhkd hfLVI Fkh vks l koschylsksy vks Mka/kS'kyikj {ks= dod tkbx&i kj vks Xykel çtkfr; kaç/kku FkA i kS'kkyk ij h{k.kka ea , -, e- l jki ds l kfk mipjka dh {kerk us n'kZ, k fd ; fn l jki i kS volFk eami yC/k djkrsgSris i kni kadh of) dks vR; f/kd c<k; k tk l drk gA dy feykdj , -, e- dod ds l kfk tM+{ks= ds l m<hdj . k us i kS kadh of) tsek=k , oamUkj thfork vks i kS xqkoUkk rkfydk ea l k kj fd; kA mipkj cgr fdOk; rh vks i kj vudny gA

egnh oak ds ikp , -, e- Qach ; Fk&Xykel] tkbx&i kj] Ldh/hyk&i kj] Ldyhkd hfLVI vks , Dosykt i kj vks Xykel dh çtkfr; ka ea ; Fk& th- Qfl dny/e] th- , xbx/e] th- ekd h; kj] th- eDkdiZ] th- ekbDkdiZ] th- bUMRjMMI ht] th- jfVdny/e] th- dfULVDVe] th- efYVdnyh] th- thvktikje vks th- dllokyonyl dks vfhkryf[kr fd; kA Xykel efYVdnyh ds i qdj vks vte] l sigyh kj egnh ij l ipr fd; k x; kA Ldyhkd hfLVI bf.Mdk dksukx vks i qdj 1/4 vte] 1/2 l s De'k% egnh vks v'oxakk ij vfhkryf[kr fd; kA fofHku , -, e- çtkfr; ka ; Fk& th- , xbx/e 1/35% 1/2 th- ekd h; k 1/45% 1/2 th- Qfl dny/e 1/20% 1/2 th- eDkdiZ 1/40% 1/2 Xykel çtkfr 1/45% 1/2 Ldh/hyk&i kj 1/3% 1/2 vks , D; myk&i kj 1/2% 1/2 dh çtkfr dks v'oxakk ea vfhkryf[kr fd; k x; kA tcfD egnh ea , -, e- dod dh çtkfr dks th- Qfl dny/e dh ç/kkurk ds l kfk th- Qfl dny/e 1/55% 1/2



th , xhx/e 120%½ th eØkdkie 142%½
 Xykel çtkr 18%½ , D; nyktikjk 15%½
 LdWnyktikjk 18%½ vks Ldyhjk hfLVI 12%½ ds
 #i eavfhkyf[kr fd; kA vf/kdre tM+I Øe.k I kstr
 ¼ kyh½ I s 185%½ vks i qdj] vtej I s U; ure 146%½
 vfhkyf[kr fd; kA tcd v'oxakk ea vf/kdre tM+
 mifuošku 178%½ gfjek dfrk Qkez ¼ kxk½ I s vks
 vtej I s U; ure 184%½ vfhkyf[kr fd; kA tM+
 I Øe.k 54 çfr'kr vfhkyf[kr fd; k] tcd , , e-
 thok.kq 210@100 xk- enk ikbz xBA nkska çtkr; ka
 ; Fk&egnh vks v'oxakk çdfr ea vR; f/kd
 ekbdkj bty ikbz xBA tM+ I Øe.k tMka ea
 vlr%kks'kdh;] vlrjkdks'kdh; dodrañ dksk vks

vkclldnyj I jpuvka ds #i ea ikbz xBA oh, -, e-
 I jki .k ç; kx eh th QfI dny/e dsfo'kq I w/kz ds
 I kfk I jksir ikskaeavf/kdre çjks yEckbz 153-6l seh-½
 vfhkyf[kr dh xBA rFkfi] I Hh mipkj I Hh
 i jkehVjk; Fk&ijks Åpkbz <ku½ vk/kfjr ruk 0; kl]
 chtk.kqdh I q; k çfr 10 xk- enk vks egnh eal Øe.k
 dh çfr'krkj ea çHkoh ik, x, A tcd v'oxakk ds
 ekeys eh th , xhx/e dh ç/krurk ds I kfk
 duI ksvz e I jki ds I kfk I jksir ikska ea vf/kdre
 çjks Åpkbz vk/kfjr ruk 0; kl Øe'k 70-5 I seh- vks
 10-5 fe-eh FkA chtk.kqka dh I q; k çfr 10 xk- enk
 vks I Øe.k dh çfr'krkj Hh vU; mipkjadh rgyuk ea
 mPp vfhkyf[kr dh xBA

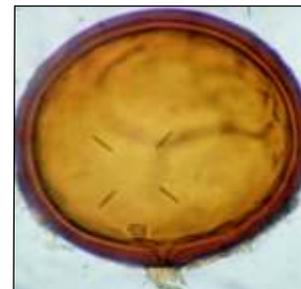
egnh vks v'oxakk I s , df=r , , e chtk.kq



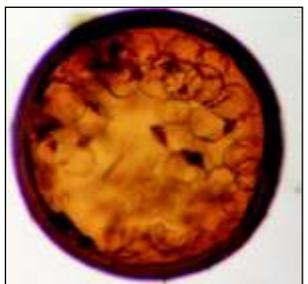
Xykel thvktikje



Xykel QfI dny/e



Xykel iztkr



Xykel ekt h; k



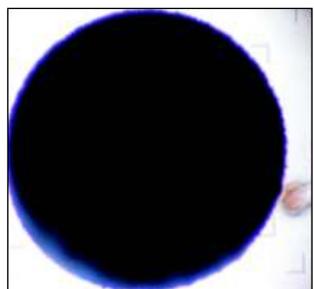
Ldyhjk hfLVI dh chtk.kqfyck



, D; nyktikjk iztkr



, D; nyktikjk iztkr



LdWnyktikjk ck; ksvkz



LdWnyktikjk iztkr



I (e thoh I j kd;

i ksk'kkyk voLFkkvka ds rgr 30 ; wdsyIVI Dykska dh enykrifuk ij ikni of) çkRl kgd jkbtksDVhfj; k] ; Fkk&cfl yl exkVhfj; e] L; Mkekukl 'lykjhil bl] , tk/kcDVj Øndkde vls , tk/Lifjye cftyl h dh tkp dh xBA ikni of) çkRl kgd jkbtksDVhfj; k ¼ h-thih-vkj-½ us vkbZch, - mipkjr dyekadscjkj ; wdsyIVI dyeka dh enykrifuk , oa of) dks c<k; kA tc vkbZch, - ¼000 ih-h, e-½ mipkjr dyekadh rnyuk ea5 fe-yh@ dye dh nj ij L; Mkekukl 'lykjhil bl vFkok , tk/kcDVj Øndkde ds l kfk dyeka dks l jkisir fd; k x; k rksDYks l h&14 vls l h&111 usenykrifuk ds fy, cgrj vuifØ; k dh gA

nskt o{k çtkfr; ka; Fkk&, yUFkl , DI YI k ¼69 vbl ksy½ , - ekykcfjde ¼2 vbl ksy½ , UFKk hQsyl dnEck ¼3 vbl ksy½ esykbuk vkckjh; k ¼45 vbl ksy½ ehfy; k Mfic; k ¼28 vbl ksy½ vls MSYcftZ k yfVQkfy; k ¼27 vbl ksy½ l s, df=r enk uewka l s ikni of) çkRl kgd jkbtksDVhfj; u vbl ksy½ ka dks iFKDdr fd; k x; k vls vf/kd tbjkl k; fud tkp ds fy, ç; kx'kkyk eai k'kr fd; kA

p; fur nskt o{k çtkfr; ka ds fofHku enk uewka l s iFKDdr ikni of) çkRl kgd jkbtksDVhfj; k ds vkcnh ?kURo dk Hh vkdyu fd; k x; kA buea l s , u- dnEck ds rgr , df=r uewka ea vl; o{k çtkfr; kadh višk vf/kdre dknyksu; kaFkA

, yUFkl , DI YI k] , - VRbQh k vls uhvksyekfdZ k dnEck ds uewka l s iFKDdr oak ; Fkk& , tk/kcDVj] , tk/Lifjye] cfl yl vls L; Mkekukl dh çtkfr Lrj ij igpu dh xBA

esykbuk vkckjh; k] ehfy; k Mfic; k vls MSYcftZ k yfVQkfy; k dsuewka l s iFKDdr ikni of) çkRl kgd jkbtksDVhfj; k dh igpu dh çxfr gA

Yfd; k ukbVrst u LFkk; hdj , fdVukekbl hVh vls fo'kskdj dSokfjuk çtkfr ds l kfk l Ec) gA dSokfjuk bfDol hfVQkfy; k vls dSokfjuk >@kgfu; kuk dh xLFk; ka l s Yfd; k dh N% ul yka (Cj Cbel, Cjkl, CjN1, Ce Py1, Ce Py2, CeSe1) dks iFKd fd; k x; k vls df=e ehfM; e ea l oB/kz fd; kA ul y Cj Cbe1 us dSokfjuk çtkfr; ka ds i kka vls dyekad l kfk cgrj fu"iknu dk çn'ku fd; k D; kAd bl us mPp xfu; l ç; k ¼@dye½ vls xLFk Hkj ¼5 fe-xk@xLFk½ dk mri knu fd; kA l keU; r%vfØ; ehfM; k eamxk, x, dSokfjuk dh dyekaustrM+xLFk; ka ughafn [kkA rFkfi orZku vl; ; u ep vfØ; ehfM; k ea Yfd; k dsdf=e l jki .k }jk dSokfjuk çtkfr; kadh dyekaxLFkdj .k gfl y fd; k x; kA

e/; çnsk ds 11 fofHku LFkkuka l s of) çkRl kgu thokadstuun0; , d= fd, A tM+Vsjka ea esykbuk vkckjh; k] MSYcftZ k fl l l wls tVRQk djdl ij ijh{k.k fd, x, vls bu çtkfr; kadsfy, of) çkRl kgu thokadk p; u fd; k x; kA eny ifjkskh enk l s iFKDdr chl fofHku dodka dh ikni of) çkRl kgu xqka¼/vlg.k % vls ÅpkbZdsfy, tkp dh xBA buea l s , Lijftyl çtkfr vls pkj VRbdkMekZçtkfr; ka dks of) çkRl kgu dsfy, ik; k x; k vls i ksk'kkyk eami; kx dsfy, p; fur fd; kA ikni of) çkRl kgu thok.k¼ -, e- Qakh , Lijftyl çtkfr vls , tk/Lifjye½ vls enk l akkskuka¼ eku vuqkr eaY; wdsuk] l kxksu iUth vls Okez, kvZ [kkn dk feJ.k] oh@oh½ ds mi; kx usplhu i kskach 10&20% mlkj thfork dks c<k; kA tc {k= eackgj jkisir fd; k rks bl us 43% rd ikni ÅpkbZdskh c<k; kA



शिक्षा संदर्श



çLrkouk

Hkkjrh; okfudh vuq U/kku , oaf'k{k ikj'kn~ds f'k{k funs'kky; dksfo' ofo | ky; ka dks mudh vol j'puk tS &Hkou] midj.k] dEI; Wj I BVj] i qrdky; vkn dks I 'kDr cukus ds fy,] foUkh; I gk; rk mi yC/k djkdj fo' ofo | ky; ka ea okfudh f'k{k çk&I kgr djus dk vf/kns'k fn; k x; k gA dgy feyk dj Hkkj ea 26 fo' ofo | ky; gA ftudksbl funs'kky; }kjk I gk; d vuqku mi yC/k dj; k x; k gA

; g funs'kky; bl n'Vdksk ds I kfk ekuo I d k/ku fodkl dk; D[e] tS &çfof'V Lrj ij oSkfudka dsfy, vk/kkjHkk okfudh çcU/k i) fr; kai j ç'k{k.k vksj **vuq U/kku dk; Z i) fr; kA vksj **vuq U/kku çcU/k , oa ç'k{k u^ ij e/; e Lrj ds ofj "B oSkfudkadsfy, vU; ç'k{k.k dk; D[e] dk vk; kst u Hkh djrk gS rkd budh vuq U/kku n{krkvkadsrh{k vksj buds'kku dk v | ru fd; k tk I dA bl ds vykok] gky gh eaf'k{k funs'kky; dksnksu, çed{krk okys{k= I kA sx, gA

; sgA^ufhr vuq U/kku^ vksj ^vki nk çcU/k^ 1 ouk ol; tho vksj i; kbj.k ds {k= ea ufhr vuq U/kku dk I pkyu Hkkjrh; okfudh vuq U/kku , oaf'k{k ikj'kn~ds egRo i wZ vf/kns'k ea I s, d gA gky dh ?kVukvka; Fkk& pOkr I wkeh usvki nk çcU/k ds {k= eavud U/kku #fp dksçsjr fd; k gS rkd bl çdkj dh vki nk dh ?kVuk ea budh U; whdkjd Hkiedk dh [kkt] I puk I 'tu vksj bl ij tAx#drk I 'tu fd; k tk I dA

orZeku ou ufhr; kA I fof/k vksj budh # i jçkk dk i qjh{k.k vksj fo'y'sk.k djus dsfy, funs'kky; ea ufhr vuq U/kku çHkkx gA

- f'k{k funs'kky; Hkkj ea okfudh f'k{k dksçk&I kgr djus ds fy, fo' ofo | ky; ka dks I gk; d vuqku mi yC/k dj jgk gA ifj'kn~us 2009&2010 foUkh; o'kZea 15 fo' ofo | ky; ka dks 450 yk[k dk I gk; d

vuqku tkjh fd; k gA iUng fo' ofo | ky; ka I s mi; kx çek.ki = Hkh çkIr fd; k vksj muds ikl 'kSk mi yC/k 'kSk ds fy, 12 fo' ofo | ky; ka gS i qj oSkhdj.k tkjh fd; k x; kA

- Hkkjrh; okfudh vuq U/kku , oaf'k{k ikj'kn~ ds çR; k; u çk&Z }kjk igyh çkj okfudh f'k{k ea xqkoUkk fu; æ.k dh , d ubZ 'kA#okr ds #i ea ifj'kn~ ds I kfk çR; k; u çkIr djus ds fy, fo' ofo | ky; ka dks çk&I kgr fd; k x; kA çR; k; u çfO; k 8 fo' ofo | ky; ka dsfy, ij dh xbA

ekuo I d k/ku fodkl I = i kr

- oSkfud dkdzka ds {kerk fuelZk dsfy, ekuo I d k/ku fodkl I = i kr ds , d Hkx ds #i eA çfr'Br vuska ç'k{k.k I æBuka ea 13 ç'k{k.k dk; D[e] vk; kstr fd,] ft I ea 8 I h.Fkkuka ea 211 I gHkfx; ka dksç'k{k'kr fd; k x; kA
- oSkfudka; ki d jk'Vh; tkudkj mi yC/k dj kus ds fy, jk'Vh; Lrj I feukj kA dk; Z kkyvka, oal aksBh vkn ea oSkfudka dh I gHkfxrk dsfy, ifj'kn~ Lrj ij dgy 111 vuqfr; kanh xbA
- fons'kh nks kads 47 ekeykaeal gk; rk mi yC/k dj kbZ xb] ft I svuska I kA I sfu/kh; u ds I kfk vUre #i I s Hkkj I jdkj I s Lohdr nh xb] ft I I s oSkfud I xZ dks vfr vko'; d vUrj kZVh; vutko mi yC/k gP/k gA
- vU; I okvka ds I nL; ka , oa vU; i .k/kfj; ka dk {kerk fuelZk ij i; kbj.k , oaou ea ky; I fehr dh fji kZr\$ kj dj dse ky; dksçLr dh xbA

Hkkjrh; ou I ok dk feM&d\$; j ç'k{k.k

- Hkkjrh; okfudh vuq U/kku , oaf'k{k ikj'kn~ us Hkkjrh; ou; tho I h.Fkk] nsjknw] Hkkjrh; ou I o{k.k] nsjknw] Hkkjrh; çcU/k I h.Fkk] vgenkcn] dksy k&MksLV\$; fuof I X/h ¼ w, I -½ vksj



LohMI ; fuofl Vh vkID , fxdYpjy I kbd at ¼ I -, y-; w½LohMI tS sl l.Fkkukads l kFk l k>nkjh vlg I okke l l.Fkkr 0; oLFkk miyC/k djkdj Qst&III gsrqHkkjrh; ou l ok vf/kdkfj; kadsfy, feM&dsj; j çf'k{k.k ifj; kstuk l Qyrkiwd çrLi)Zdjsr\$ kj dh gA

- Hkkjrh; okfudh vuq U/kku , oa f'k{k k ifj"kn~ ea 14 fnl Ecj 2009 l s19 ekpZ2010 rd 'kr'kZçf'k{k.k çcU/kd ds #i ea bl rjg dk igyk dk; Øe vk; kstr djus dh JsBrk Hkh g\$ ft l l s Hkkoh çf'k{k'ka ds fy, çk/kdWka dh LFkkiuk dk exZ ç'kLr g\$ka

uhfr vuq U/kku

ubZfnYyh ea 29 tuojh 2010 dks i; kbj.k , oa ou ea-ky; dh uhfr vuq U/kku l febr dh rhl jh ikjLifjd fØ; k cBd vlg 10 Qjoh 2010 dks mi&l febr dh , d cBd dk vk; kst u fd; k x; kA

3-1 o-v-l a l e fo' ofo | ky;

ou vuq U/kku l l.Fkku] nsjknw dks ekuo l a kku fodkl ea-ky;] Hkkjr l jdkj] ubZ fnYyh }kjk l e fo' ofo | ky; dk ntkZ çnku fd; k x; k gA l e fo' ofo | ky; dk ntkZ feyusdskn fo' ofo | ky; us okfudh , oal Ec) fo'k; kads{ks= earhu Lrkrdkkj fMxh i kB; Øeka, oarhu fMlykek i kB; Øe 'k# fd, gA rc l s fo' ofo | ky; ou l a k/kuka ds i ksk.kh; fodkl] çcU/kj l j{k.k vlg mi; l s rFk i; kbj.kh; çcU/k ds fy, oKkfud tkudkj ds l tu , oa ç l kj ij dñnr cgq fo | k&{ks= okfudh] vuq U/kku , oa fodkl] f'k{k vlg foLrkj dk; Zdyki dj jgk gA

'k\$ {kd i kB; Øe , oa ço\$ k

ou vuq U/kku l l.Fkku fo' ofo | ky; fu; fer vk/kkj ij çkdfrd l a kku çcU/k ij Lukrdkjk fMlykek l çak çk\$ ksdh ea Lukrdkjk fMlykek vlg yqnh , oa dxt çk\$ ksdh ea Lukrdkjk fMlykek ds vykok okfudh ea , e, l-l h] i; kbj.k çcU/k vlg dk'B foKku , oa çk\$ ksdh ea, e, l-l h i kB; Øe pyk jgk gA

I Hkh i kB; Øeka evf[ky Hkkjrh; çfr; ksch ço\$ k ij h{k dsvk/kkj ij ço\$ kn; k tkrk g\$ tçfd yqnh , oa dxt çk\$ ksdh ea Lukrdkjk fMlykek vlg l çak çk\$ ksdh ea Lukrdkjk fMlykek ea ço\$ k; k; rk ds vk/kkj ij fn; k tkrk gA o"z 2009&2010 ds nlg ku mi; Ør l Hkh N% i kB; Øeka ea 113 fo | kFkZ, ka dks ço\$ kn; k x; k gA

fo' k\$ k 0; k [; ku

I keU; i kB; Øe ds vykok] fo | kFkZ, ka dks Hke.k fo' k\$ k 0; k [; kuka ds ek/; e l s foHku fo'k; ka ij fo' k\$ k kadsn f"Vdks l svoxr dj; k x; kA



fo' k\$ k 0; k [; ku ea Hkx yrs fo | kFkZ

çf' k{k.k

- ou vuq U/kku l l.Fkku l e fo' ofo | ky; us 15 ekpZ l s 23 ebZ 2010 rd ifj"kn-dsoKkfudka , oa vuq U/kku vf/kdkfj; ka dk 10 l l rkg dk vf/k' Bkiu çf' k{k.k vk; kstr fd; kA ty l kjk çcU/kj enk , oa ty l j{k.k [kfr Hkie; ka dk i q#) kj] Hkkjr dsou fdLe] i ksk.kh; ou çcU/kj l a Ør ou çcU/kj foLrkj okfudh] 'k\$ k y\$ ku] tyok; q ifjorZ] ou j{k.k] ou çek.khdj.k] ol; tho çcU/kj i; kbj.k çcU/k vlg i; kbj.kh; çHko eW; kadu tS sfo'k; ka ij o-v-l a l e fo' ofo | ky; ds vkrfjd l adk; ka l kFk gh l kFk Hkkjrh; l mjj l onh l l.Fkku] Hkkjrh; ol; tho l l.Fkku] bñjk xk/kh jk'Vh; ou vdkneh] jkT; ou l ok egkfo | ky;] ek\$ e foKku foHkx vlg l okfuok oKkfudka ou vf/kdkfj; ka l svfrfk l adk; ka }kjk çf' k{k.k fn; k x; kA



- iatkc gfj; k.k vks fgekpy çnsk rFkk cakysj ,oa dks EcVij ea Hkh vf/k' Bki u çf' k{k.k.kfFkz; ka ds fy, 'k{k'kd Hke.k dk vk; kst u fd; k x; kA
- Hkjr h; I mji I dsh I ÆFku] nsjknw(Hkjr h; ou I ofk.k] nsjknw(bflnj k xk/kh jk'Vh; ou vdkneh] nsjknw ,oaou vuq U/kku I ÆFku dsHkh çHkkx tS s fofHku I æBukædHke.k vk; kst r fd, A

mÜkj h {ks= dgyifr I Eesy ou vuq U/kku I ÆFku I e fo' ofo | ky; } jk o-v-I - dshk{kkur xg ea 22 I s24 fl rEcj 2009 rd Hkjr h; fo' ofo | ky; I Æk ¼-vkbz; w/zdsI kFk vk; kst r fd; k x; kA

ih-, p-Mh- dk; Øe

- 1- vof/k ds nksj ku iat h`r fjl pz Ldky j & 63
- 2- vof/k ds nksj ku I Eilu eks[kd & ij h{k & 66
- 3- ih-, p-Mh- fMxh vokMZ & 68

okf'kd [ksyd m dk vk; kst u fo' ofo | ky; } jk 19 I s22 ekpZ2010 rd fd; k x; kA [ksyd m ds nksj ku fØdV eþ okyhcky eþ] Vx vKQ okj] fofHku bMkj [ksyd m I fgr fofHku vk; kst u fd, x, A



okf'kd [ksy I Eesy ds nksj ku jLI k dI h



I kdf rd fØ; kdyki

- fo' ofo | ky; us11 vxLr 2009 dks fo' ofo | ky; ds I Eesy d{k ea I çak çkSj kSxdh ea LukrdkSj fMlykek ds fo | kFkz; ka ds fy, 'k{k'kd Hke.k dk vk; kst u fd; k x; kA
- I e fo' ofo | ky; ds Nk=kausou vuq U/kku I ÆFku ea 4 vks 5 uoEcj 2009 dks **iozh; {ks=ka ea vksj kSxd fodkl vksj i; kbj.k I j{k.k** fo'k; ij vk; kst r I feukj eahkx fy; kA

vVpeSV

- Hkjr ds fofHku dk' B vk/kfjr m | kska ea 1 I s 31 fnI Ecj 2009 rd ,e-, I-I h- dk' B foKku ,oa çkSj kSxdh rhl js I feLVj ds fo | kFkz; ka ds fy, vksj kSxd vVpeSV dh 0; oLFk dh xBA
- Hkjr ds fofHku vuq U/kku I ÆFkuka ea 1 I s 31 fnI Ecj 2009 rd ,e-, I-I h- okfudh rhl js I feLVj vksj ,e-, I-I h- i; kbj.k çCU/k rhl js I feLVj ds fo | kFkz; ka ds fy, I ÆFkxr vVpeSV dh 0; oLFk dh xBA
- vksj kSxd çf' k{k.k ds, d Hkx ds# i ea 15 fnI Ecj 2009 I s 15 Qojh 2010 rd yqnh ,oa dxt çkSj kSxdh ea LukrdkSj fMlykek ds fo | kFkz; ka ds fy, fey vVpeSV dh 0; oLFk dh xBA

'kks'k çCU/k

- I Hkh ,e-, I-I h- ih-, e-Mh- vksj ih-t-Mh- ikB; Øeka ds vUre I feLVj ds fo | kFkz; ka ds } jk 1 ekpZ I s 31 ebZ 2009 rd 'kks'k çCU/k ij k fd; k x; k vksj eW; kadu ds fy, 'kks'k çCU/k fji kSj çLr r dhA bl dk; Z dks fo' ksk'ka } jk eW; kad r fd; k x; kA
- I çak çkSj kSxdh ikB; Øe ea ikV ekLVj fMlykek ds fo | kFkz; kause/; fnI Ecj 2009 I se/; tw 2010



rd ,Q-,Q-Mh-l h- dluks] m-ç- ea N% ekg dk
vks] kfxd çf' k{k.k vks] ij ; kst uk dk; Zfd; kA

fu; kst u

- fofHku l xBuka@m | ksk@dEifu; k@xj l jdkjh
l xBuka}kjk dsi l l k{Rdkj fd; k x; k vks] 35 l s
vf/kd fo | kfkz, kadk fu; kst u fd; k x; kA

3-2 vk; kstr çf' k{k.k

Hkjr; okfudh vuq U/kku , oa f'k{kk
ifj"kn} nsjknw

tfo/krk vks] tyok; qifjorZu çHkx }kjk 5 l s
9 vDVm; 2009 rd Hkjr; okfudh vuq U/kku , oa
f'k{kk ifj"kn} nsjknw ea **dkZu iFKDdj.k** ij
oSkfudka, oavf/kdkfj; kadsfy, i kp fnol h; çf' k{k.k
dk; De dk vk; kst u fd; k x; kA



l kirkgd i q'p; kZ i f'k{k.k i kB; De ds
l ghkxh rFk vk; kst d

ou vuq U/kku l lFku} nsjknw

- *lykbZk'B fuekZk* ij 24 l s 28 vxLr 2009 ij
vYidkyhu çf' k{k.k kA
- çdk'B ; k=dh 'kk[kk] ou mit çHkx] o-v-l a
nsjknw }kjk 6 vçy l s 5 vDVm; 2009 rd tEewo
d'ehj jkT; ou fodkl fuxe ds vf/kdkfj; ka ds
fy, ^ çdk'B Jskh; dj.k , oa çdk'B ij h{k.k ij
çf' k{k.k i kB De vk; kstr fd; k x; kA
- ; vdkV }kjk çk; kstr **fl y jskk }kjk
glrfufeZ dkxt ds fy, m|ferk fodkl

dk; De ij 31 vxLr l s 4 fl rEcj] 2009 rd
i kp fnol h; çf' k{k.k dk; DeA

- j l k; u çHkx] ou vuq U/kku l lFku }kjk 14 l s
17 tykbZ 2009 rd vdk'B ou mit dk mi; ksrk
ifjo/kZ ij vYidkyhu çf' k{k.k kA
- ifj"kn- l lFkuka ds oSkfudka , oa vuq U/kku
vf/kdkfj; kadsfy, 18 l s 23 tuojh 2010 rd ou
jks foKku çHkx o-v-l a nsjknw eal Eilu ifj"kn-
}kjk çk; kstr **dod dk iFKDdj.k} igpku vks]
ifj}k.k** ij çf' k{k.k kA
- ou l o/kZ] ou jks foKku] ou dhv foKku] ou
mit ouLifr foKku] i kSk'kryk rduhdka
vuq U/kku çU/k vkn ds {k= ea 10 l s 26 Qojh
2010 rd okfudh vuq U/kku ea tkudkjh ns
ds fy, ou vuq U/kku l lFku} nsjknw ea
, -ih-, l -, -vkj-, - uskuy vFKMj Vh] dEckM; k ds
vf/kdkfj; kadk çf' k{k.k kA
- mlur cht vks] i kSk'kryk çk] kfxdh ij 21 l s
25 fl rEcj 2009 rd çf' k{k.k kA
- gkb&Vkl i kSk'kryk , oa jki .k çU/k ij 8 l s
17 tu 2009 rd çf' k{k.k kA
- , u-Mh-, e-l h- ds 3 çpka ds {k= depkfj; kadsfy,
14 l s 18 fl rEcj 2009(fnukad 1 l s 5 Qojh 2010
vks] fnukad 8 l s 12 ekpZ 2010 dkso {kadsjkskadk
mi pkj vks] ikni l j {k ij çf' k{k.k kA
- o-v-l a ea 30 uoEcj l s 11 fl rEcj 2009 rd ifj"kn-
ds vkbZ/h@dEl; Wj oSkfudka ds fy, okfudh ij
çf' k{k.k kA
- çknf'kd l s k ds bdk&Vkl d Qkl ZdkfeZl ds fy,
15 l s 18 fl rEcj 2009 rd ouhdj .k rduhdka ij
çf' k{k.k kA
- çknf'kd l s k ds bdk&Vkl d Qkl ZdkfeZl ds fy,
27 l s 30 vDVm; 2009 rd ouhdj .k rduhdka ij
çf' k{k.k kA



- jk'Vh; vkin k çcU/k ds l kfk l g; kx l s 18 l s22 tuojh 2010 rd **okfudh {k= eaçkdfrd vkin k çcU/k^ ij çf'k{k.k dk; ØeA
- vksk/kh; ikni kadh [ksh vls mi; ksxrk ifjo/kU ij 6 l s9 fnl Ecj 2009 rd if'k{k.k kA
- **cat jHkne; kaek i kfj & i q#) kj^ ij çf'k{k.k kA
- ^t&mi pkj vls i; kbj.k l qkij^ ij çf'k{k.k kA
- ck; k&buQkVVDI vls th-vkbZ, l- çHkx] o-v-l a }kjk vk; kstr 2 l s6 ekpZ 2009 rd vkdz buQks 9-3 ij çf'k{k.k kA
- **ckl iztkfr [ksh] QI y dVku , oa fcØh^ ij 28 vi sy 2009 dksfdl kukaek if'k{k.k kA
- **cgrj mRiknu , oaykHk dsfy, vksk/kh; ikni kadh mi; ksxrk ifjo/kU^ ij 23 tu 2009 dksfdl kuka dk çf'k{k.k kA
- **l h, l -, Q-bzv kj- ea jk'Vh; ckl fe'ku fdl ku çf'k{k.k^ ij 15 l s19 ekpZ 2010 rd fdl kuka dk çf'k{k.k kA
- Hkjr h; okfudh vuq U/kku , oaf'k{k ikj^kn-dsou foKku dshz ds rgr , l -, Q-vkj-vkbZ dku ij ea vk; kstr 24 l s28 vxLr 2009 rd **xqkoUk jki .k LVkHl mxkusvls i ksk'kkyk rdudhkaeaçf'k{k kkaek çf'k{k.k^ ij , d çf'k{k.k dk; ØeA
- çn'kU xkp] l hqij] bykgkckn ea 19 Qjoh 2010 dks**o{k çtkfr; kadsjki .k dsfy, vk; qmi ; Ørrk^ ij fdl kukaek çf'k{k.k , oafolrkj dk; ØeA
- l h, l -, Q-bzv kj-] bykgkckn] ckn'kqij] eNyh'kgj rgl hy] tkij] ea 18 Qjoh 2010 dks**df'k okfudh^ ij fdl kukaek çf'k{k.k , oafolrkj dk; ØeA
- jke Lugh ?kV] ckjkadh ea 5 ekpZ 2010 dksçed[k] l h, l -, Q-bzv kj-] bykgkckn ds i ; bsk.k ds rgr **df'k okfudh ea; wlsyIVI ^ ij fdl kukaek çf'k{k.k , oafolrkj dk; ØeA

- dksngkj] l kjsu rgl hy] bykgkckn ea 7 ekpZ 2010 dksçed[k l h, l -, Q-bzv kj-] bykgkckn ds i ; bsk.k ds rgr **df'k okfudh ea l kxk^ ij fdl kuka dk if'k{k.k , oafolrkj dk; ØeA
 - [ktkuh xkj] [kij] ea 11 ekpZ 2010 dks çed[k] l h, l -, Q-bzv kj-] bykgkckn ds i ; bsk.k ds rgr **df'k okfudh ea i klyj^ ij fdl kuka dk çf'k{k.k , oafolrkj dk; ØeA
 - c#b] bykgkckn ea 26 ekpZ 2010 dks l h, l -, Q-bzv kj-] bykgkckn ds rgr **df'k okfudh ea vkpyk^ ij fdl kuka dk çf'k{k.k , oafolrkj dk; ØeA
- ou vkuoaf'k dh , oa o{k çtuu l hFkku] dks EcVij
- vçs 2009 ea vls ksd df'k okfudh ds fy, mi; ksxrk psu ds jk'Vh; df'k uohurk dk; Øe ifj; kstuk fodkl ds rgr dks EcVij ftys ds fdl kuka ds fy, dSokfjuk , oa; wlsyIVI dh [ksh vls çcU/k ij çf'k{k.k kA
 - vçs 2009 eaou vkuoaf'k dh , oao{k çtuu l hFkku ds vadh; dir l azky; ds vkpdlk vk/kj ij , d çf'k{k.k , oaçn'kU A
 - rfeyukMq ds vls kfud vf/kdkfj; ka ds fy, ckl [ksh vls çcU/k ij 18 l s22 ebZ 2009 rd , d ikp fnol h; çf'k{k.k kA
 - rfeyukMq ds vls kfud vf/kdkfj; kadsfy, ckl [ksh vls çcU/k ij fnuka 25 l s29 ebZ 2009 rd , d ikp fnol h; çf'k{k.k dk; Øe A
 - rfeyukMq ou foHkx ds foLrkj Ldtk ds jat ou vf/kdkfj; ka ds fy, 24 l s26 tykbZ 2009 rd xqkoUk jki .k LVkHl mRiknu , oa df'k okfudh ij çf'k{k.k dk; ØeA



- I k/ku fof/k; ka ,oa jkl k; fud fo'yšk.k ikni p; ki p; ka dk fu"d"zk i FkDdj.k foyk; d vuqkr dh mi ; p rrrkj Vh, y-l h- 0; k[; k vlsj ; woh- y{k.k o.ku ij 27 vlsj 28 tgykbZ 2009 dks nksfnol h; xgu cf'k{k.k dk; DøeA
- jk"Vh; df"k uohurk ifj; kstuk dsrgr 30 vxLr 2009 dks d#j ftysdsfdl kuka dsfy, vlsj kfxd df"kokfudh ij cf'k{k.k.kA
- ou vkuoñi'kdh, oao{k çtuu l ðFkku ea23 fl rEcj 2009 dks çkV/D'ku vkuo IYkkuV ojkbVht ,.M Qkjel ZjkbV vFkMj Vh vkuo bñM; k }kjk çk; kstr ; wlsyIVl ,oa dSokfjuk ds MhFLØIVjka ij , d fnol h; rduhdh cf'k{k.k , oacBdA
- **I k/ku fof/k; ka ,oa jkl k; fud fo'yšk.k ikni p; ki p; ka dk fu"d"zk i FkDdj.k foyk; d vuqkr dh mi ; p rrrkj Vh, y-l h- 0; k[; k vlsj ; woh- y{k.k o.ku ij 9 vlsj 10 fl rEcj 2009 dks nksfnol h; xgu cf'k{k.k.kA
- fdI kuka dsfy, ikni fdLekadh o{k [ksh vlsj I gj{k ij 6 vDVncj 2009 dks cf'k{k.k.kA
- fdI kuka dsfy, xqkoUkk jki .k LVkMl mRiknu ij 8 vlsj 9 vDVncj 2009 dks nksfnol h; cf'k{k.k.kA
- rfeyukMq ou vdkneh ds cf'k{k.k.kFkZ QkMj Vjka dsfy, **ou ouLifr ,oa l xgky; rduhdh ij 23 vDVncj 2009 dks, d fnol h; cf'k{k.k.kA
- ftyk cxckuh foHkx dh l gk; rk l sd#j ftysdsfdl kuka dsfy, ckd [ksh vlsj çCU/k ij 22 vDVncj 2009 dks cf'k{k.k.kA
- rfeyukMq ds uxki fVVue ftysdsfdl kuka dsfy, ckd [ksh vlsj çCU/k ij 27 vlsj 28 vDVncj 2009 dks cf'k{k.k.kA

- rfeyukMq ou foHkx ds foLrkj Ldu/k ds l gk; d ou l j{k d , oajst vf/kdkfj; ka dsfy, jki .k çCU/k ij 9 uoEcj 2009 dks cf'k{k.k.kA
 - 'kkskFkZ; ka, oa0; k[; krkvka dsfy, **Mh-, u-, - vadd çkSj kfxd; ka dk mi ; kx tuun0; y{k.k o.ku ij 3 vlsj 4 fnl Ecj 2009 dks cf'k{k.k.kA
 - dlfUM; j Meks xkp ds xkfe.kka ds fy, jki .k çkSj kfxd; kai j 8 fnl Ecj 2009 dks cf'k{k.k.kA
 - **dkwñkj , dS'k; k dsfy, ueh tbfu; æ.k l p o l j Hkjr ea [kst** ij ifj; kstuk ds rgr 4 vlsj 5 tuojh 2010 dks **[kjiroj çCU/k ea fdVV dod ij nksfnol h; cf'k{k.k.k dk; Døe vk; kstr fd; kx; kA
 - rfeyukMq jkT; ou foHkx ds dfeLVka , oafj l pZ LdkMjka ds fy, Vh, y-l h] ,e-i h, y-l h] ; woh], p-i h, y-l h vlsj th l h@, e-, l-@, e-, l- dk mi ; kx djds vksk/kh; iknika dk ikni jkl k; fud fo'yšk.k ij 18 l s23 ekpZ 2010 rd cf'k{k.k.kA
 - rfeyukMq jkT; ou vf/kdkfj; ka dsfy, , dhdr uk'ktho ,oa jkx çCU/k ij 30 ekpZ 2010 dks cf'k{k.k.kA
 - rfeyukMq ds fdI kuka dsfy, tñmoj dka , oa tñ [kknkai j 31 ekpZ 2010 dks cf'k{k.k.kA
- dk"B foKku , oa çkSj kfxd l ðFkku] çxykj
- ou foKku dññ, Q-vkj-l h] gñjkkn ds rgr ckjg cf'k{k.k.k dk; Døe dgy 416 l ghkfx; kausou i ksk'kkyk] o{k l ðkj] dk"B foKku] tñfofo/krk , oa i ; kbj.k l æflu/kr fo"k; kñ vkin çCU/k vkn fo"k; ka ij cf'k{k.k.k çklr fd; kA



- djy ou foHkx dsvf/kdkfj ; kadsfy, 4 ekpZ2010 dksçf'k{k.k.kA
- dk'B l akksk.k , oai fjj{k.k ij 7 l s11 fl rEcj 2009 dksçf'k{k.k.kA
- egRo iwZ çdk'Bka dh {ks= igpku ij 16 l s 20 vDVm; j 2009 dksçf'k{k.k.kA
- plnu cht , oa išk'kkyk i)fr; ka ij 23 l s 27 uoEcj 2009 dksçf'k{k.k.kA
- çdk'Bka dk oxhbj.k , oa Jskhdj.k ij 2 l s 4 fnl Ecj 2009 rd çf'k{k.k.kA
- dk'B l g{k ij 4 l s8 tuojh 2010 rd çf'k{k.k.kA
- cgqI ok, amiyC/k djkusdsfy, gfjr Hkm' ; ka dk vfhkdYiu ij 4 l s8 tuojh 2010 rd if'k{k.k.kA
- plnu cht , oa išk'kkyk i)fr; ka ij 15 l s 19 Qjoj 2010 rd çf'k{k.k.kA

m".kdfVcU/kh; ou vuq U/kku l ðFkku] tcyij

- ckl vk/kfjr df'k okfudh ç.kkfy; ka dksvi ukusds ykHka ij uoku jat] ckjkuokijk ifj; kst uk çHkx] jk; ij] NÜkhl x<+ds rgr çxfr'khy fdl kuka dks 13 vj 14 ebZ2009 dksçf'k{k.k.kA
- ckl vk/kfjr df'k okfudh ç.kkfy; ka dksvi ukusds ykHka ij çxfr'khy fdl kuka dks 25 vj 26 ebZ2009 dksçf'k{k.k.kA
- çf,-vkbZ, Q- i wks ds l kfk ; oreky , oa plnki g] egkj'V^a ea 27 l s 30 vDVm; j rd egkj'V^a ds ; oreky , oa plnki g] ftyka ds foHkku xpkka ds p; fur fdl kuka ds fy, **egkj'V^a ds fy, yk[k , oa vksk/kh; ikni vk/kfjr df'k okfudh ç.kkfy[^] ij çf'k{k.k.kA
- m".kdfVcU/kh; ou vuq U/kku l ðFkku] tcyij ea tuojh 2010 ea l Eilu mHkl k dsou vf/kdkfj ; kads fy, egok ds Ql y dVku , oa çøe.k ij çf'k{k.k.kA

- ou foKku dsh] jk; ij] NÜkhl x<+ ea 24 vj 25 Qjoj 2010 dks NÜkhl x<+ ds jk; ij vj /kerjh ftykadsfd l kuka, oaou vf/kdkfj ; kadsfy, vksk/kh; ikni vk/kfjr df'k okfudh ç.kkfy ij çf'k{k.k.kA
- NÜkhl x<+ xkSk ou mit l ak] jk; ij ea 9 l s 11 vçy 2009 rd **egok l xg.k vj bl dh Hk.Mkj.k i)fr; ka[^] ij çf'k{kdkadsfy, çf'k{k.k.kA
- çf,-vkbZ, Q- i wks ds l kfk ; oreky vj plnki g] egkj'V^a ea 27 l s 30 vDVm; j rd ; oreky vj plnki g] egkj'V^a ds foHkku xpkka ds p; fur fdl kuka ds fy, ckl vk/kfjr df'k okfudh ç.kkfy ij çf'k{k.k.kA
- ou foKku dsh] tcyij ea 4 l s 5 fnl Ecj 2009 dks e/; çnsk ds jkT; ou foHkx depkfj; k; xj&l jdkjh l xBuka , oa fdl kuka ds fy, df'k okfudh ç.kkfy; kadsnksku çat j Hke ds fodkl ij çf'k{k.k.kA
- fdl kuka vj ok mRikndkadsfy, xkp tetu; k] tcyij ea 26 Qjoj 2010 dks **jki .k df'k vj tyok; qifjorZ[^] ij çf'k{k.k.kA
- cVdk[kik] i wZ ou çHkx] fNnokMk ea jkT; ou foHkx ds vf/kdkfj; ka ds fy, **fpjka h] çpkufu; kayat u dsulf'kdHv , oajks vj muds fu; æ.k mik; ij 8 tuojh 2010 dks, d fnol h; çf'k{k.k.k dk; ØeA
- cysdhl] dme ou ifj; kst uk çHkx 1/e-iz ou fodkl fuxe½ ea jkT; ou foHkx vf/kdkfj; ka ds fy, l xkls VDVkuk xBMM ds ulf'kdHv , oa jks vj muds fu; æ.k mik; ^ ij 24 Qjoj 2010 dks, d fnol h; çf'k{k.k.k dk; ØeA
- okeungh] vuq U/kku , oafolrkj l fdj] l houh ea jkT; ou foHkx vf/kdkfj; ka ds fy, vkpyk



, fEcydk vMIOfl ufyl ds ulf'kdHV , oa jksx vks mudsfu; a.k mik; ij 10 ekpZ2010 dks, d fnol h; cf'k{k.k dk; DeA

- egkjk'V] ukxi ij dsou fodkl fuxe ds {ks= dkfeZd ds fy, **i kSk'kkyk vka, oa jksi .k ea tSmoj dka dk mi; lsk^ ij 16 vks 17 uoEcj 2009 rd cf'k{k.k. kA
- fMMkjh ea 11 vks 12 vxLr 2009 dks jkT; ou foHkx] e/; cnsk dsfdl kuka, oa {ks= dk; ZrkZ/kads fy, **e/; Hkjr dh egRo iwZokfudh ct kfr; kadh i kSk'kkyk rduhdka^ ij cf'k{k.k. kA
- ou foKku dsh] dskji w/ ea 26 vks 27 vxLr , oa 16 vks 17 fl rEcj 2009 rd jkT; ou foHkx] mMh k ds fdI kuka , oa {ks= dk; ZrkZ/kads fy, **egRo iwZokfudh ct kfr; kadh i kSk'kkyk rduhd^ ij cf'k{k.k. kA
- m".kdfVclU/h; ou vuq U/kku l b.Fkku] tcyij ea 7 l s8 fl rEcj 2009 rd ch-Vh, l -th ckl fe'ku dsrgr xqjkr ds jkT; ou foHkx dsfdl kuka, oa {ks= dk; ZrkZ/kadsfy, ckl dh i kSk'kkyk , oa jksi .k cks] ksdh ij cf'k{k.k. kA
- l b.Fkku ea o'kZ ds njsku okfudh vks i; kbj.k l afUkr fo'k; kadh foHkku igywka ij nl cf'k{k.k. dk; De vk; kstr fd, x, A



l h, Q-vkj-, p-vkj-Mh] fNokMk ea 4 tu 2009 dks **enk l j{k.k rFk okVj'kM izaku** ij if'k{k.k

o"kkZou vuq U/kku l b.Fkku] tkj gkV

- fdI kuka ds fy, 22 l s 25 tu 2009 rd , d f'k; k eSt; e dh i kSk'kkyk , oa jksi .k rduhdka j cf'k{k.k. kA
- depkjh , oa xkeh.k l ghkfx; kankukadsfy, 5 l s 9 Qojh 2009 rd l ghkxh xkeh.k eW; fu/kkZ .k , oal we; kst uk ij cf'k{k.k. kA
- ckl i kSk'kkyk ij 21 vks 22 Qojh 2009 rd cf'k{k.k. kA
- ofeZEkI x ij 23 vks 24 Qojh 2009 rd cf'k{k.k. kA
- iVpkyh df'k okfudh ij 1 vxLr 2009 dks cf'k{k.k. kA
- , d f'k; k eSt; e ij tkx#drk ij 22 l s 25 tu 2009 rd cf'k{k.k. kA
- jkxekxzh CykMl vdkjch , xylak 1/2 ea Quesu bafV xlp 18 fl Ecj 2009 vks 21 fl Ecj 2009 dks fufyi CykMl vdkjch , xylak 1/2 ea cdfyax xlp ea l Eilu **>e Hke ea i kSk.kh; mRiknu dsfy, Qyh vk/kfjr df'k okfudh^ ij l ghkxh fdI kukadsfy, cf'k{k.k. kA
- **Hke l d k/ku l o'k.k ea thih, l - cks] ksdh dk mi; lsk^ ij 14 l s 16 fl rEcj 2009 rd cf'k{k.k. kA



**Hke l d k/ku l o'k.k ea thih, l - rduhd dk vuq; lsk^ ij if'k{k.k



- रणल कख] उख्यSM ea 25 l s 27 t yk bZ 2009 rd उख्यSM dsou foKku d bñz ds rgr ckl uk'kht ho , oaj l s x v l s mudk cclv/k ij c f'k{k.k.ka
- o'kZ ou vuq U/kku l l Fkku] t k j g k v 1/4 l e 1/2 ea 11 v D V u j 2009 d l s l E i l u f = i j k d s j k T ; ou foHkx ds O k j u s . V j k a , o a O k j u s . V x k l v k a d s , d l e m j d s f y , c f'k{k.k.ka
- o'kZ ou vuq U/kku l l Fkku] t k j g k v ea j k T ; ou L d n y] e k d n e] f m c u k < + d s 50 O k j u s . V x k l v k a d s f n u k d 31 e k p Z 2009 d k s o f e b E i k t . V m R i k n u] Q I y d v k u d s c k n i f j j { k . k j } v l s f v d k A i u c < k u s d s f y , c k l d k m i p k j r f k k c k l k a d s f y , i k k ' k r y k r d u h d k a i j c f'k{k.k.ka
- e k d e ou L d n y] f m c u k < + e a o u f o K k u d b ñ z v l e e a o f e b E i k t . V m R i k n u v l s c k l r f k k v l ; Q I y k a e a b l d s m i ; l s x i j 13 e k p Z 2009 d l s c f'k{k.k.ka
- f = i j k d s j k T ; ou foHkx ds O k j u s . V j k a , o a O k j u s . V x k l v k a d s , d l e m j d k 11 v D V u j 2009 d l s c f'k{k.k.ka
- e k l l f t y k j u k x y S M d s o u v f / k d k f j ; k a d s f y , c k l i j 29 v l s 30 v D V u j 2009 d l s c f'k{k.k.ka
- v x j r y k 1/4 = i j k 1/2 e a 25 v l s 26 Q j o j h 2010 d l s o u f o K k u d b ñ z f = i j k d s r g r c f'k{k.k.ka e a j k i . k c c l v / k i k k ' k r y k y x k u s v l s c k l m i ; k s x r k i f j o / k u i j c f'k{k.k.ka
- t k j g k v 1/4 l e 1/2 e a 10 a t k j g k v 0 ; k i k j e s y e a e ' k % c k l m i ; k s x r k i f j o / k u v l s c k l v k t h f o d k v k o ' ; d r k d s f y , , d l p o l j i j 12 Q j o j h 2010 d l s c f'k{k.k.ka
- ou foKku d b ñ z d k ; e d s r g r Q d f t y k j u k x y S M e a c k l i j 25 v l s 26 e k p Z 2010 d l s c f'k{k.k.ka

- ' k d ou vuq U/kku l l Fkku] t k s'k i g i
- i ; k b j . k , o a o u e a k y ;] H k j r l j d k j u b Z f n Y y h } k j k c k ; k s t r d e t k j j f x L r k u i k f j r a d s i k s k . k h ; f o d k l d s f y , , d h d r , c k p * i j H k j r h ; ou l o k v f / k d k f j ; k a d k 14 l s 18 f n l E c j 2009 rd , d l l r k g d k v f u o k ; Z c f'k{k.k.ka
- f d l k u H k o u f c d k u j j k t L F k k u e a o u f o K k u d b ñ z 1/2 k t L F k k u 1/2 d s r g r 13 l s 15 Q j o j h 2010 rd f d l k u k a v l s { k s = d k ; Z r k z / k a d s f y , r h u f n o l h ; c f'k{k.k.ka
- x k / k u x j j x o t j k r e a o u f o K k u d b ñ z i f j ; k s t u k d s r g r ou v f / k d k f j ; k a c x f r ' k h y f d l k u k a d s f y , 7 l s 9 f l r E c j 2009 rd o e c k s k s x d h i j c f'k{k.k.ka

fgeky; u ou vuq U/kku l l Fkku] f'keyk

- c l l / k j i k k ' k r y k j e u k y h j f t y k & d n y j f g e k p y c n s k e a 26 v l s 27 e b Z 2009 d l s * v l s / k h ; i k n i k a d h v l r % k r h j x k e h . k v k ; c < k u s d s f y , , d f o d Y i ^ i j n k s f n o l h ; c f'k{k.k.ka , o a c n ' k u d k ; e a
- { k s = v u q U / k k u L V s k u f c j l y k l h j u k y k x < + e a 17 f l r E c j 2009 d l s * o u m R i k n d r k o { k l d k j } k j k o f) ^ i j , d f n o l h ; c f'k{k.k.ka d k ; e a
- e k n y x k p y k u c k d k f t y k f l j e k s j f g e k p y c n s k d s 80 f d l k u k a d s f y , * e / k e D [k h i k y u , o a , d h d r u k ' k h t h o c c l v / k ^ i j 29 f l r E c j 2009 d l s , d f n o l h ; c f'k{k.k.ka d k ; e a
- / k s y k d o k 1/4 k o v k l k f g c 1/2 f t y k & f l j e k s j e a * o k f u d h g L r { k i k a d s } k j k f u e u h d r { k s = k a d k i k f j & l d k j ^ i j 22 t u o j h 2010 d l s , d f n o l h ; c f'k{k.k.ka d k ; e a , o a d k ; Z k r y k a



- jkT; ou vuq U'kku I LFkku tEewea**mRi kndrk dh of) dsfy, çkš kšxdh; včš vuq U'kku gLr{kš kads mi; kx^ ij 17 Qojh 2010 dks ,d fnol h; çf'k{k.k dk; Døe vk; kš tr fd; k x; kA
- jkVh; včš/kh; ikni ckmZdsrgr 21 Qojh 2010 dks{kš vuq U'kku LVŠku] cW/kj %eukyht/ea**ifr'k ,oa pšjk dh 0; ki kfjd [kš h^ ij ,d fnol h; çf'k{k.k ,oaçn'kš dk; DøeA

ou mRi kndrk I LFkku] j kph

- ou vuq U'kku dšhž emkj] j kph ea**ofežEi kšLVa^ ij 20 včš 2009 dks ,d fnol h; fdI kuka dk çf'k{k.k ftI ea12 fdI kukaushkx fy; kA
- >kj[k.M ds [kš h ftys ea**oŠkfud fof/k }jkj yk[k [kš h^ včš tuuyk{kš Qkež dh LFki uk^ ij 18 včš 19 ebZ2009 dksçf'k{k.k kA
- I LFkku ds vkf.od tšodh ,oa o{k nšgdh ç; kx'kkyk ea4 vDVicj 2009 dksejokMh dkmyst] j kph dsfo | kš kš kš dsfy, **vkf.od tšodh^ ij ,d ekg dk çf'k{k.k vk; kš tr fd; k x; kA
- ,u-ch- Qkež ghi kng včš ,u-ch- Qkež pšMok ea**oŠkfud fof/k }jkj yk[k [kš h^ ij 30 vDVicj 2009 včš 27 uoEçj 2009 dks ,d fnol h; çf'k{k.k dk; DøeA
- i; kšj.kh; vuq U'kku LVŠku] I çluk] if'pe cakj ea**egROIwž včš/kh; iknika dh [kš h včš foi.ku ij çpkj@tkx#drk çf'k{k.k ea 23 včš 24 Qojh 2010 dks nks fnol h; tkx#drk çf'k{k.k kA
- ou mRi kndrk I LFkku] j kph ea8 I s18 Qojh 2010 rd I kš; dh; çf'k{k.k vk; kš tr fd; k x; kA

- ou vuq U'kku dšhž elnkj ea**>kj [k.M dsxkš/Mk ftys ea of/kš Qkež mRi kndrk včš I {ke I gk; rk iz kš fy; ka ds }jkj ou I emk; ka dh vkt h fofdk dk c<kuk^ 'kš kš I suš fu/kš; r dk c<kuk^ 'kš kš I s uš fu/kš; r ifj; kš uk dsrgr ofežEi kšLVa^ ij 22 včš 23 Qojh 2010 dks nks fnol h; fdI ku çf'k{k.k kA



,u-,včš h- ifj; kš uk ds v/hu oelžEi kšLV if'k{k.k ds nšku fdI kuka dsfy, 0; k; ku rFk {kš if'k{k.k

3-3 fonš k Hke . k

- MKW th, I- jkor] egkfunšk] Hkjr; okfudh vuq U'kku ,oa f'k{kš ifj'kn- Jh ,e-, I- xç; kš] miegkfunšk 1/ç'kkl u1/ MKW jottlnž dčkj] miegkfunšk 1/olrkj1/ MKW/kežnz oelž I gk; d egkfunšk 1/žvčž, 1/2včš Jh I kšj dčkj] oŠkfud

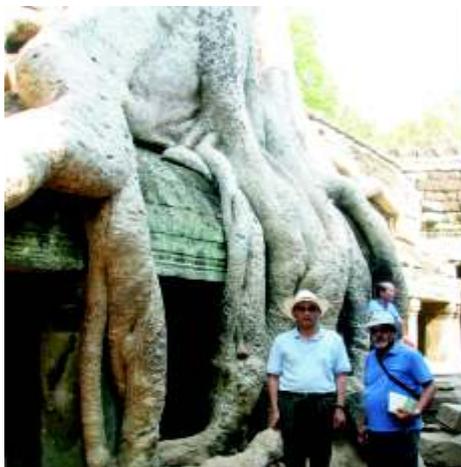


Hkku ea 1/çk I s nka 1/2 Jh /kežnz oelž I e-fu- 1/žvčž, 1/ç Jh ,e-, I- xç; kš] m-e-fu- 1/žkkl u1/ MKW th, I- jkor] egkfunšk] Hk-ok-v-f'k-i- (MKW jottlnž dčkj] m-e-fu- 1/olrkj1/



bzvkbZ, - Hkk-ok-v-f'-k-i-] nsjknw us7 l s11 fl rEcj 2009 rd l dksk ty fo| r ifj; kst uk dsbzvkbZ, - i jke'kZdk fujh{k.k d j usdsfy, Hkk/ku dk nlsk fd; kA

- MkW th, l- jkor] egkfun'skd] Hkk-ok-v-f'-k-i- us eyf's'k; k ea 4 vDVncj 2009 dks , -ih-, -vkj- vkbZ i kpoal = eaHkkx fy; kA
- MkW th, l- jkor] egkfun'skd] Hkk-ok-v-f'-k-i-] MkW , l-, l- ush] fun'skd] o-v-l a] nsjknw] MkW , p-, l- fxuoky] cef[k] ou vkuofa'kdh , oa o{k ctuu cHkkx] o-v-l a] nsjknw vks] MkW/kferk nkl xhr[k] oSkfud&Mh] ou vkuofa'kdh , oao{k ctuu l h.Fku] dks EcVij useys'k; k ea5 l s 8 vDVncj 2009 rd **ou vkuofa'kdh l a k/ku l j {k.k^ ij vUrj kVh; l aksBh eaHkkx fy; kA
- MkW th, l- jkor] egkfun'skd] Hkk-ok-v-f'-k-i- us eyf's'k; k ea, Q-, -vks, l -vksMcy; w, Q-t-hvkj- cBd ea9 vDVncj 2009 dksHkkx fy; kA
- MkW th, l- jkor] egkfun'skd] Hkk-ok-v-f'-k-i-] us Hkk/ku ea12 vks] 13 vDVncj 2009 dks** l kdZQkVh l bVj dh xofuak ckMZdh rhl jh cBd eaHkkx fy; kA
- MkW th, l- jkor] egkfun'skd] Hkk-ok-v-f'-k-i-] nsjknw us ou vuq akku l h.Fku] nsjknw }kj k



dEckSM; k eaVk i kSe efinj eal j {k.k dk; Zdk fujh{k.k d jrsqg MkW th, l- jkor] egkfun'skd] Hkk-ok-v-f'-k-i-] nsjknw (l kfk eaMkV, u-, l -ds g"q oSkfud&, Q] ou vuq akku l h.Fku] nsjknw

Vk i kSe efinj dEckSM; k eafd, x, mipkjiwZ vks] ifjj{k.k dk; ka dk 2 l s 7 ekpZ 2010 rd fujh{k.k fd; kA mlugksfo'kSkKkadsny ds l kfk Jh cqu ukfjFk] egkfun'skd] vl jk jk"Vh; i kf/kdj.k vks] vl; ofj"B vf/kdkfj; ka l s Hkk/ dh vks] mlga ifj"kn~dh vks] l s l EiwZ l g; kx dk vk'okl u fn; kA osdEckSM; k eaHkkjr ds jktnw Jh vkj- ds l pno l s Hk feysvks] mlga ifj"kn~}kj k dEckSM; k eafd, tk jgsdk; kal svoxr dj k; kA

- Jh l Unhi f=i kBh] fun'skd 1/4 uq U/kku] Hkk-ok-v-f'-k-i- us tki ku ea27 l s 30 vDVncj 2009 rd **vkBoha, f'k; k qlyDI dk; Zkyk & 2009^ ea Hkkx fy; kA
- Jh txnh'k fd'koku] egkfun'skd] Hkk-ok-v-f'-k-i- vks] Jh oh-vkj-, l- jkor oSkfud&b] tSfofo/krk vks] tyok; qifjorZu cHkkx] Hkk-ok-v-f'-k-i- us Hkkjr l jdkj ds cfrfuf/ke.My ds Hkkx ds #i ea1 l s 12 tw 2009 rd ckM] teZh ea, l -ch, l -Vh-, -vks] , l -ch-vkbZ ds rjgoa l =] , -Mcy; wth& , y-l h-, - ds NBs l = vks] , -Mcy; wth& dsih- ds vkBoal = eaHkkx fy; kA
- Jh oh-vkj-, l- jkor] oSkfud&b] tSfofo/krk vks] tyok; qifjorZu cHkkx] Hkk-ok-v-f'-k-i-] us Hkkjr l jdkj ds cfrfuf/ke.My ds Hkkx ds #i ea ckM] teZh ea10 l s 14 vxLr 2009 rd tyok; qifjorZu okrlZ eaHkkx fy; kA
- Jh oh-vkj-, l- jkot oSkfud&b] tSfofo/krk , oa tyok; qihkkx usfnukad 2 l s 6 uoEcj 2009 dks ckj l hysuk ea Hkkjr l jdkj ds ifrfuf/k eMy ds vak ds: i eaHkkx fy; kA
- Jh oh-vkj-, l- jkor] oSkfud&b] tSfofo/krk vks] tyok; qifjorZu cHkkx] Hkk-ok-v-f'-k-i- us Hkkjr l jdkj ds cfrfuf/ke.My ds Hkkx ds #i ea 7 l s 18 fnl Ecj 2009 rd dki ugsu] MsuekdZeaD; k/k/s cks/kdM] eai kVZ, kd h i kpoal cBd@; w, u-, Q-l h-l h- eai kVZ, kads15oal Eesy eahkkx fy; kA



- MKNV oh-ih- frokjth] oSkkfud&, Q] dK"B foKku ,oa cks] kfxdh I h.Fkku] caxyk] us8 I s12 ekpZ2010 rd dqufeax buI fVv; w vKMD cKwuh] pkbuht , dMeh vKMD I kb] dqufeax] phu ea vk; kstr **k{k}kd okfudh f'k{k}k fodkl , oa vko' ; drk, ^ fo'k; ij rhl jh xQKwZvUrjZVh; I aksBh eaHkx fy; kA
- MKNV , I -, - vUl kjh] m".kdfVcakh; ou vud U/kku I h.Fkku] tcyij us21 vK] 22 vDVm] 2009 dks ; fuofI h vKMD vdklI kl fyfVy jkkl] ; w, I -, - ea pks]s ck; ks uSks vKMD I vK] mi; kx vud U/kku I Eesy ea Hkx fy; k rFk **Hkjr; I kxkS 1/4/DVka k xD/M I , y-, Q-1/2 dh vkckfn; ka , oa/ku o{kka ds vkuqf'kd fol; kl ds fy, , -, Q-, y-ih fpgud fo'ySk.k^ 'k'r'kd ds rgr 'kkski = cLr q fd; k vK] df'k mi; kx dsfy, ikni tSodh uSks , oatSck] kfxdh I = 7 dh v/; {krk dhA
- MKNV fufru dgyd.kh] m".kdfVcakh; ou vud U/kku I h.Fkku] tcyij us; wkbVM LVs/4 Mhi kVzB vKMD , fxdYpj 1/4 w, I -Mh-, 1/2 QKwZV I oI fgyk] gokb] ; w, I -, - ea12 I s16 tgykbZ2009 rd I Eilu vkbZ; w , Q-vkj-vks dk; Z ikVhZ 7-03-04 ou iSk' kkykva ea jks , oauk' kdHv eaHkx fy; k vK] **Hkjr eaI kxkS ou iSk' kkyk ea' os Hkx dKwI yD I dh tSodh , oa cCv/k^ 'k'r'kd ds rgr 'kkski = cLr q fd; kA
- fel bferlyk , vK] ou I j{k.k vK] I eng I elb; d 1/2 vud u/kku 1/2 o'kzou vud U/kku I h.Fkku usfQuySM vK] #1 eaQjoh I svçy 2010 rd Qst-iv ds fy, vkb I Irq dh vof/k ds , d vfuok; Z felM&d]vj çf'k{k.k dk; De eaHkx fy; kA
- MKNV , u-dsckj] 'kq]d ou vud U/kku I h.Fkku] tkski g us2 I s9 fnI Ecj 2009 rd **dks]sgsxu tyok; q fofue; 2009^ I Eesy ea Hkx ysis ds fy, dks]sgsxu MsrekZdk Hkx.k fd; k vK] **jktLFkku ds 'kq]d {ks= ea tyok; qifjorZ , oabl dk çHko^ ij 'kkski = cLr q fd; kA

- Jh ekSghj i ky] funskd fgky; u ou vud U/kku I h.Fkku usegkfunskd] Hk-ov-f'k-i- nsjknw dh vuqfr dsckn 22 tu I s10 tgykbZ2009 rd fo'o ek] e foKku I xBu] btjkby }jkj vk; kstr tyok; qifjorZ , oajfxLrkuhdj.k ij vUrjZVh; i kb; De eaHkx fy; kA mlgkusk; Z kkyk dsnk]ku fl) kUr ij; kst uk dk Hk çLr q rdj.k fd; kA

3-4 I feukjka@I aksBh@dk; Z kkykva@ çf'k{k.k eaHkxhnhj

Hkjr; okfudh vud U/kku , oa f'k{k}k ifj'kn- 1/2e] ; ky; vK] bl ds I h.Fkku 1/2 dsoSkkfud] vf/kdfj; ka , oa' kkskFkz; kausfuE I feukj] I aksBh] dk; Z kkyka , oa çf'k{k.k. ka eaHkx fy; kA

- pksk jk'Vh; okfudh I Eesy] ou vud U/kku I h.Fkku ea9 I s11 uoEcj 2009 rd A
- Hkjr; okfudh vud U/kku , oa f'k{k}k ifj'kn- nsjknw ea11 tuojh 2010 dks Jh t; jke jeSk] ekuuh; i; k]k.k , oa ou jkT; ea-h ds I kFk MkdVj] Hkjr; ou I ok vf/kdfj; kadk i kjLi fd fopkj & fo'e'ka
- th-ch- iUr df'k , oaçk] kfxdh fo'ofok | ky; ea10 I s12 uoEcj 2009 rd pksk mUkj[k.M jkT; foKku , oaçk] kfxdh dka] 2009A
- fr#vullri]e] dgy ea3 I s7 tuojh 2010 rd Hkjr; foKku dka] 1/2df'k , oa okfudh 1/2 dk 97oal =A
- Hkjr; i s/ksy; e I h.Fkku] nsjknw ea19 vK] 20 uoEcj 2009 dks I Eilu Åtkz , oa i; k]k.k ea fo'ySk. kRed foKku ij I EesyA
- pkskh pj.k fl @ fo'ofok | ky;] ejB ea27 I s30 tuojh 2010 rd **gfjr i; k]k.k dsfy, gfjr çk] kfxd; k^ ij vUrjZVh; I EesyA
- nw fo'ofok | ky;] nsjknw ea6 vK] 7 Qjoh 2010 dks }rh; jk'Vh; ; pk oSkkfud I Eesy 2010A



- nw fo'ofok |ky;] nsjknw ea13 l s15 ekpZ2010 rd iozh; tdfofok/krk ,oa i ksk.kh; mi;ks ij vUrjkZVh; l Eesyua
- bñjk xk/kh df'k fo'ofok |ky;] jk; ij ea25 vkj 26 Qjoh 2010 dks l Eilu [kjirokj foKku vuq U/kku 2010 ea vk/kfuq mlufR ij f}okf'kZl l Eesyua
- 8okfo'o ckd dkd 16 l s18 fl rEcj 2009 rda
- l h; -tM-vkj-vkbZ tskij ea24 l s28 uoEcj 2009 rd ,fjM tks jhl pZ, l k l , 'ku vkM bñM; k }kjk vk; kstr *ykska, oai; kbj.k dsfy, 'kqd {ks= dk i ksk.k bDdhl oha 'krknh ds fy, fo'k; ,oa dk; Z ph^ ij vUrjkZVh; l Eesyua
- i; kbj.kh; foKku ,oacs ksdh dshz cukj l fglnw fo'ofok |ky; okj.k.kl h }kjk 2 l s4 uoEcj 2009 rd vk; kstr *i; kbj.kh; foKku ,oa çk ksdh ea vk/kfuq mlufR^ ij vUrjkZVh; l Eesyua
- dshh; enk ,oaty l j{k.k vuq U/kku ,oaf'k{k.k l bFku] vkxjk ea16 l s18 vDVm; 2009 rd Hkjr; enk ,oaty l j{k.kfon~l dk nsjknw }kjk vk; kstr *e/; Hkjr eal d kku l j{k.k }kjk [kk | ,oai; kbj.kh; l j{k.k %pukR; ka, oal p o l j Qdks 2009^ ij jk'Vh; l Eesyua
- ck; kon df'k ,oa çk ksdh vuq U/kku l bFku] bykgkkn ea22 vkj 21 Qjoh 2010 dks l Eilu 12okHkjr; df'k oSkfud ,oaf d l ku dkd A
- HkjkfFknk l u fo'ofok |ky;] f=ph ea9 l s12 Qjoh 2010 rd tyok; qifjorZ ,oa t d l d kku ij vUrjkZVh; l Eesyua
- enkl fo'ofok |ky;] rfeyukMq/Hkjr 1/2 ea16 l s18 fl rEcj 2009 rd l Eilu *Hkjr ,oa dukMk ea

- tyok; qifjorZ ,oai; kbj.k i ksk.kh; % , çk ,oa j.kulfr; k^ ij vUrjkZVh; l Eesyua
- df'k foKku fo'ofok |ky;] /kkjokM+ ea 20 vkj 21 tuoJh 2010 dksvkØked vl; nsh; dhV df'k] çkxckuh vkj ou ikjra=kd sfy, l dV^ ij jk'Vh; l Eesyua
- fr#oulrige ea3 l s7 tuoJh 2010 rd Hkjr; dkd 2010A
- , -Vh-vkj-bZbZ ea 23 Qjoh 2010 dks l Eilu *t dfofok/krk l j{k.k dsfy, Hkjr ea ofxZh ds foKku dksmlur djuk^ ij jk'Vh; ijke'ka
- ou mRikndrk l bFku jkph ea9 vkj 10 ekpZ2010 l Eilu ckd dh mRikndrk l of) ,oami; ksrk ifjo/kZ ij jk'Vh; l Eesyua
- ÅtkZfoHkx] rstij fo'ofok |ky;] rstij vl e ea 23 l s25 ekpZ2010 rd l Eilu mUk&iwZHkjr ds fo'k l UnHkZ ea vfodfl r {k=kd sfodkl dsfy, uohdj.kh; ÅtkZij jk'Vh; l Eesyua
- fl akij eaUK; ka vDukMkt dy ; fuofl Vh ea9 l s 11 vDVm; 2009 rd l Eilu *jkl k; fud] t f o d h ; ,oa i; kbj.kh; vfhk; k=dh^ ij vUrjkZVh; l Eesyua
- vkU/kçnsk fo'ofok |ky;] fo'kk[ki VVue ea28 vkj 29 vDVm; 2009 dks l Eilu t dfofok/krk l j{k.k ,oa t d l d kku dk çcl/k ij jk'Vh; l Eesyua
- l s/ ,ykwfl; l dkWst] tcyij ea 18 vkj 19 fl Ecj 2009 dks l Eilu *1oha'krknh dsfy, t d çk ksdh %u; k ifjn' ; ^ ij jk'Vh; l Eesyua
- Vkvk ÅtkZ, oal d kku l bFku ubZfnYyh ea26 l s 30 vçy 2009 rd l Eilu t d i h Meluk'kh %i .k/kjh l Un'kZ/kbZl h-vksch&oh 2009 1/2 ij 5okavUrjkZVh; l Eesyua



- I s tfo; j dnyst] ikycdk/vkbZ rfeyukMq ea 26 l s28 uoEcj 2009 rd l Eilu t b i h M e d u k ' k h i j f } r h ; v l r j k z v h ; l E e s y u A
- vkbZ, -vkj- vkbZ ubZfnYyh ea 10 l s13 uoEcj 2009 rd l Eilu **o s ' o d r ; q e a i k n i j k s f o k k u ^ i j 5 o k a v l r j k z v h ; l E e s y u A
- b a M ; k g f c v s / l s v j] u b z f n Y y h e a 18 v k s 19 t u o j h 2 0 1 0 d k s l E i l u * t b b z k u e a u , Y a V ; j ^ i j i g y k v l r j k z v h ; l E e s y u A
- j k ; i j e a 14 v k s 15 e k p z 2 0 1 0 d k s l E i l u v k s k / k h ; i k n i k a d s l j { k . k f o i . k u v k s i s / s u v x 1 / 2 k b z l h - l h , e - i h - 1 / 2 i j i g y k v l r j k z v h ; l E e s y u A
- p b u b z e a 4 l s 6 e k p z 2 0 1 0 r d l E i l u v k s k / k h ; i k n i , o a ' k d h ; v k s k / k % [k r h i k s k . k h ; m i ; k s e , o a l j { k . k e a p q k s r ; k a , o a l p o l j i j v l r j k z v h ; l E e s y u A
- v l e d f ' k f o ' o f o | k y ; t k j g k v] v l e } j k k v k ; k s t r i k s k . k h ; d f ' k d h f n ' k k e a i k n i n s g d e a Y a V ; l z i j 5 l s 7 u o E c j 2 0 0 9 r d j k ' V h ; l E e s y u A
- c l n s y [k . M f o ' o f o | k y ;] > k d h 1 / 4 n - 1 / 2 e a 24 l s 26 Q j o j h 2 0 1 0 r d j k l k ; f u d f o k k k u k a e a m H k j j g s # > k u i j j k ' V h ; l E e s y u A
- 0 ; k l v f h k ; k e = d h , o a c k s j k s x d h l a F k u] t k s k i j e a * u o h d j . k h ; A t k z v k s 0 ; k i j c n ' k u i j 6 u o E c j 2 0 0 9 d k s j k ' V h ; l E e s y u A
- , - l h - l h , o a V h - 1 / 2 b a M ; 1 / 2 v k s v k b z t h - t h , e , -] t k s k i j } j k k v k ; k s t r y P N w e h e k s j ; y f o k k u , o a c k s j k s x d h e g k f o | k y ;] t k s k i j e a d k c k j k b M s / k a d s v k s j k s x d i k n y h l s j j k b M , o a t s o d h ; e g R o i j

7 l s 9 f n l E c j 2 0 0 9 r d 24 o k a d k c k j k b M s / l E e s y u A

- f g e k p y c n s k j k T ; o u f o H k x } j k k v k ; k s t r i h v j g k M] f ' k e y k e a 19 l s 21 u o E c j 2 0 0 9 r d l E i l u i f ' p e h f g e k y ; u i o z ' j k T ; k a e a t y o k ; q i f j o r z u d s c H k o d s U ; u h d j . k , o a v u p h y u d s f y , o k f u d h l e k / k u j . k u l f r ; k a i j j k ' V h ; l E e s y u A
- f o u k s k H k o s f o ' o f o | k y ;] g t k j h c k x 1 / 2 - k j [k . M 1 / 2 d s r R o k o / k u e a v k ; k s t r c k d f r d l a k / k u c c l u / k i k s k . k h ; f o d k l , o a e k u o d Y ; k . k d h r y u k e a t h o u f o k k u v u d U / k k u k a e a v k / k f u d # > k u i j 27 l s 29 t u 2 0 0 9 r d v l r j k z v h ; l E e s y u A



**i k d f r d l a k / k u i z a k u / k j . k h ; f o d k l r f k e k u o d Y ; k . k d h r y u k e a t h o u f o k k u v u d a k k u e a u r u i o k g * i j v r j k z v h ; l E e s y u



- चक्रवर्तीको फोहोको] देका; fo' ofo | ky;] ušhrky ea fo'o rki u dh ?KVuk dsfy, ikfj&tšodh; ?Kvd ¼ u-, l -vkj-bzth 2009½dh vufo; kvkai j 26 vksj 27 fl rEej 2009 dksjk'Vh; I feukjA
- Hkjr; vkfKzd of) l hFku] caxyks ea tyok; q ifjorū vkpMk vko'; drk ,oa miyC/krk ij 16 vksj 17 vcsy 2009 dksjk'Vh; I feukjA
- jkph eaekd kadh mRikndrk l of) ,oami ; kšxrk ifjo/ku ij 9 l s 10 ekpZ 2010 rd jk'Vh; I feukjA
- l kekted ,oa vkfKzd ifjorū l hFku] caxyks] Hkjr }kjk vk; kštr **ikfjLFkrdh; vkfKzd % l kekted vkfKzd ,oa i ; kbj.kh; i ksk.kh; rk dh fn'kk ea ,d nf'Vdksk ij 30 fl rEej vksj 1 vDvuj 2009 dksjk'Vh; I feukjA
- tš çks] kšxdh foHkx] Hkj kfk; kj fo' ofo | ky; dks EcVij }kjk vk; kštr **tš çks] kšxdh eaYav; l ¼ u-, l -bzth 2009½ ij 22 l s 24 tykbZ 2009 rd jk'Vh; I feukjA
- jkt dh; dyk egko | ky;] dks EcVij ea ikni tš çks] kšxdh ea mHj jgs #>ku ij 4 vksj 5 Qojh 2010 dksjk'Vh; I feukjA
- ih, l -thvkj- d".kkey egko | ky;] dks EcVij ea **tš l d k/ku & l j{k.k vksj çcl/k^ ij 8 vksj 9 tuojh 2010 dksjk'Vh; I feukjA
- etnij iyDdM+ea l kbyšV ošh jk'Vh; i kdZ dh jtr t; Urh mRl o dsvol j ij 21 uoEej 2009 dksjk'Vh; I feukjA
- i#Eckye vtbl ySM] vykiw k ftyk dšy ea oeclnw>hy dPN ouLifr l j{k.k ifj; kstuk ds

- rgr l kekted ofudh çHkx] vykiw k }kjk vk; kštr vknMk l j{k.k ij 2 Qojh 2010 dks l feukjA
- vfoukf'kyaxe ; fuofl Vh vknD oæu] dks EcVij ea vksk/kh; ikni vuq U/kku ij 3 Qojh 2010 dks rhl jk Hkjr&dksj; kbZl a p r l feukjA
- pšubZ ea çks] j Vh, u- vuLFkd".ku }kjk vk; kštr **dhv ikni ikjLifjd fØ; k eavkf.od j.kulfr; kai j i ksh fo' kskKrk eaj; k; u dh Hkredk^ ij 22 uoEej 2009 dks l feukjA
- dks EcVij eaokVl Zcaxyks }kjk ,y-l h- vksj ,e-, l -uohudj.k dk mi ; kš^ ij 29 tuojh 2010 dks ty çks] kšxdh l feukjA
- efgyk fuezyk dklyst] dks EcVij ea çk; kšxd vkuoñ'kdh ,oa tšuhfr ea oržku mluf; ka ij 18 vksj 19 fl rEej 2009 dks l feukjA
- dkfydV fo' ofo | ky; }kjk vk; kštr vkuoñ'kdh] çtuu vksj tš çks] kšxdh ij 11 vksj 12 fl Eej 2009 dksjk'Vh; I feukjA
- ikMvjh fo' ofo | ky; }kjk vk; kštr l j pulRed tš l puk eavk/kqud #>ku ij 16 vksj 17 fl rEej 2009 dksjk'Vh; I feukjA
- rfeyukMqou foHkx dsfoLrkj foax dsl g; kš l s ou vkuoñ'kdh ,oa o{k çtuu l hFku] dks EcVij }kjk vk; kštr 18 vksj 19 Qojh 2010 dks **o{k mRi knd esyk^A
- dk'B foKku ,oa çks] kšxdh l hFku ea l Eilu Hkjr&bVky; u 0; ki kj dlnz }kjk vk; kštr **dk'B foKku eamluf; ka ,oa oukæavk/kqud çks] kšxf; ka dk mi ; kš^ ij 19 uoEej 2009 dks l feukjA
- ekrk xqj h efgyk egko | ky; tcyij ea l Eilu **çkdfrd l d k/ku ds i ksk.kh; mi ; kš vksj



- tbfofokrk ds{ks= ea orzku #>ku^ ij 16 vls 17 uoEcj 2009 dksjk'Vh; I feukjA
- nsh vfgY;k fo'ofok|ky;] bUnkS ea I Eilu iksk.kh; fodkl dsfy, gfjr cks ksfcd; ka ij 1 Is 3 fnl Ecj 2009 rd nlt jk Hkjr; foKku I Eesy ,oa, DI iks2009A
- batuh; jkadh I hFk eage fodkl ,oai; kbj.k ij 4 tgykbZ2009 dksjk'Vh; I feukjA
- fcjlk df'k fo'ofok|ky; jkph dh ifjorZ'khy tyok; qdsfy, QI ykadk vfhkdYiu ij 29 Is 31 vDVm; 2009 rd jk'Vh; I feukjA
- ouLifr foHkx] xkok fo'ofok|ky; xkok esd Eilu fo'o rkiu dh vk; qeadodh tbf ofokrk vls tbf cR; k'kk ij 29 vls 30 vDVm; 2009 dksjk'Vh; I feukjA
- ouLifr foHkx] ,-,e;w vyhx<+ ea ikni tbf cks ksfcdh % mUufr; k; cHko vls ckl fxdrk ij 20 ekpZ2010 dksjk'Vh; I feukj 2010A
- Ih, I-, Q-bZvkj- bykgkcn ea I Eilu fuEuhd'r Hkie; ka ds iqokZ ij 6 vls 7 vDVm; 2009 dks jk'Vh; I feukjA
- thou foHkx] fMc<+ fo'ofok|ky; ea I Eilu **fo'o tyok; q ifjorZ % tfoch; foKkuka ea YfIV; j vud U'ku^ ij 12 Qojh 2010 dksjk'Vh; I feukjA
- tskij jk'Vh; fo'ofok|ky; }kjk vk; kstr tbf cks ksfcdh eamHk jgs#>ku ij 1 vDVm; 2009 dks jk'Vh; I feukjA
- ekjokM+ vfhk; k=dh egkfo|ky; ,oa vud U'ku dsh; tskij }kjk vk; kstr **ty xqokk cclV^ ij 21 ekpZ2010 dks I feukjA

- bM; k gfcVv/ I BVj] ubZfnYyh ea, d xMxkp ea dk; jr xj I jdkjh I xBu cKk }kjk vk; kstr mPp fgeky; Qkje dh 9 vDVm; 2009 dks nlt jh ok'kd I HkA
- yHMj'khi QkV bpk; jebV ,.M MoyieSV bM; k %yH% ds Ig; kx Is jkT; foKku cks ksfcdh ,oa i; kbj.k ifj'kn-}kjk vk; kstr gk/y ihVj gkM] pMk ehku] f'keyk eaXyfi ;j] tyok; qifjorZ ,oavkthfodk ij 29 vls 30 vDVm; 2009 dks nls fnol h; eq; efi; kadh I HkA
- yHM Hkjr }kjk vk; kstr ubZ fnYyh ea 6 vls 7 uoEcj 2009 dks I Eilu tyok; q ifjorZ ij jk'Vh; I feukjA
- th-ch iUr df'k ,oa cks ksfcdh fo'ofok|ky;] iUruxj] mUkjk[k.M ea**df'k okxckuh ,oakfudh dh ey ifjosh tfochorzku ,oakfo"; ^ ij 25 Is 27 Qojh 2010 rd vUrjZVh; I aksBhA
- fr#ifr eal Eilu i; kbj.kh; cnik.k] ikfjLFkrdh ,oakuo LokLF; ij 25 Is 27 tgykbZ2009 dks vUrjZVh; I aksBhA
- Ihes caxys eaHkjr eavskvkh; ,oal gffkr iknika ij 50 Iky ds vud U'ku ij Ihes Lo.kZ t; rh 26 tw 2009 dksjk'Vh; I aksBhA
- tbf cks ksfcdh foHkx] ih, I-th cks ksfcdh egkfo|ky;] dks EcVj }kjk vk; kstr vls ksfcd #i I segroi wZ dks'kdkvka dk iksk.k vls mudk vkf.od y{k.k.o.ku ij 9 Is 21 uoEcj 2009 rd dk; ZkkyA
- fcfV'k dkmfU y] fcfV'k LdkV I Z vku/k cnsk ,lok; jesuV duSV }kjk vk; kstr *fuEu dkcZu Hko"; ^ ij 18 vls 19 tgykbZ2009 dks dk; ZkkyA
- ;'kor jko pksku ,dkneh vkM MoyieSV ,MfeLVskuj iwks ea I Eilu i'kq foKku ea



- ek=kRed fo'yšk.k ,oa ekMfyak ij 6 ls 11 vDVncj 2009 rd Mh, l-Vh çk; kštr dk; ZkkykA
- ikpoavUvjZVh; dšiki h l Eesy ds, d Hkx ds#lk eadk'B foKku , oaqšl kšxdh l hFku ea30 vDVncj 2009 dks l Eilu vkbZch-vkbZ, l-l h, - dk; ZkkykA
- vkbZvkbZ, l-l h- ea **jkf= ijx.k % iSuz ,oa çfØ; k^ ij 23 ls 27 ekpZ 2009 rd vUvjZVh; dk; ZkkykA
- Hki ky ea11 vxLr 2009 dks l Eilu LopN fodkl fØ; ki) fr ¼ hMh, e-½ ij dk; ZkkykA
- , l-, Q-vkj-vkbZ tcyij ea7 vDVncj 2009 dks l Eilu e/; çnsk dsfy, Lopkfy eš e LVšku vkpMk dk mi ; kstu ij dk; ZkkykA
- dfrk egkfo | ky; ukxij ea5 vŷ 6 tykbZ 2009 dks dfrk okfudh ij jk^Vh; dk; ZkkykA
- ou foHkx] vl e l jdkj }kjk vk; kštr fnekiij ea ukxkySM ds vŷk/h; iknika ds išk.kh; fodkl ,oa çcl/k mi ; kšrk ifjo/kz vkfn ij 9 vŷ 10 fnl Ecj 2009 dks dk; ZkkykA
- vksdsh-vkbZ, l-l h-Mh] xpkgkVh ¼/l e½ ea 18 Qojh 2010 dks , u-bZvkj-vkbZMcy; w, -, y-, e-rstij }kjk vk; kštr tš&Hkw vkpMk vk/kj ij iqjh{k.k dk; ZkkykA
- l-hch-Vh-l h] xpkgkVh }kjk vk; kštr bvkuxj ea 24 ls 26 Qojh 2010 rd carka dh jk^Vh; dk; ZkkykA
- tškiij ea vke exh'kz fl)Urka ij 25 vŷ 26 tw 2009 dks nksfnol h; l oshdj .k dk; ZkkykA
- tškiij ea jktLFku dsfy, jkT; i ; kbj.k ulfr dks rš kj djus ds fy, 27 vDVncj 2009 dks dk; ZkkykA
- n; kyckx 'kš{k d l hFku] vlxjk ea 30 vŷ 31 vDVncj 2009 dks tš çšl kšxdh ea l kš[; dh; mi ; kx ij dk; ZkkykA
- Mkw' ; ke çl kn eqktizjkt dh; fMxh egkfo | ky;] bykgkcn ea 22 ls 24 vDVncj 2009 rd çš) d l Eink vf/kdkj% ikjEikjd Kku dh ryuk ea tšfofo/krk ls tš çšl kšxdh ij jk^Vh; dk; ZkkykA
- btifu; fja LVM dkyt vkm bM; k] gšjkcn ea **i ; kbj.kh; çHko eM; kedu ¼vkbZ, -½ eauohure #>u&i ; kbj.k ,oa ou ea-ky; ds exh'kz fl)Urka ds vuq kj çfØ; k ,oa dk; ç. kkyh^ ij 14 ls 16 fl rEcj 2009 rd çf'k{k.k dk; ØeA
- jk^Vh; vki nk çcl/k l hFku] ubZfnYyh }kjk xgu Hk [kyu tš[ke çcl/k ij 1 ls 5 Qojh 2010 rd çf'k{k.k dk; ØeA
- Hkjr h; ol; tho l hFku] ngjknw ea **ol; tho l j{k.k %fo'k; , oapukšr; k^ ij 8 ls 12 ekpZ 2010 rd çf'k{k.k dk; ØeA
- vkbZvkbZVh, e- iws ea o{k tyok; q foKku ,oa tyok; qifjorZ ij 30 uoEcj l 11 fnl Ecj 2009 rd çf'k{k.k dk; ØeA
- vkbZ, u-ch, -vkj- vŷ mUkjk[k.M ckd ,oa jškk fodkl çkMz ¼ wch, Q-Mh-ch-½ }kjk l a Ør #i ls vk; kštr **vk/kpud fuekZk l kexh ds#i eackd ^ ij 5 ls 14 vDVncj 2009 rd vUvjZVh; çf'k{k.k dk; ZkkykA
- Hkjr h; m".kdfVcdh; eš e foKku l hFku] iws }kjk fnukad 7 ls 12 fnl Ecj 2009 rd vk; kštr **o{k tyok; q foKku ,oa tyok; q ifjorZ^ ij çf'k{k.k dk; ØeA
- ou vuq U'ku l hFku] ngjknw eacat j Hkie; kadk i kŷ&i q#}kj ij 13 ls 17 tykbZ 2009 rd çf'k{k.k dk; ØeA



- Hkkjrh; eI kyk vuq U/kku I h.Fkku] dkfydV }kjk vk; kstr **bz, I -Vh- fo'yšk.k eavk/kfud mlufR , oa budh 0; k[; k^ ij 20 I s22 vDVWj 2009 rd Mh- ch-Vh- çk; kstr çf'k{k.k.kA
- ou vuq U/kku I h.Fkku] nsjknw ea **okfudh , oa I puk çkS kSxdh ij 30 uoEcj I s12 fnl Ecj 2009 rd fof'k'V çf'k{k.k.k dk; ;DeA
- ou vuq U/kku I h.Fkku] nsjknw ea tS mipkj vSj i; kbj.kh; I dkj ij 3 I s7 vxLr 2009 rd çf'k{k.k.kA
- , u-ch-i-h-th-vkj-] ubZfnYyh ea13 I s17 vçS 2009 rd Hk-ok-v-f'k-i- ds oSkfudka ds fy, I Eilu **ikni tuun0; I ç{k.k^ ij çf'k{k.k.kA
- tS çkS kSxdh foHkx] Hkkjrh I jdkj I sfu/kh; u ds I kfk thuke eamRd"Vrk dsfy, dbnz v/kz 'kqd m".kdfVcU/kh dsfy, vlrjzVh; QI y vuq U/kku I h.Fkku] iVkuph#] gñjkckn eaI Eilu **QI y I dkj ds fy, vkf.od fpgud çkS kSxdh^ ij 16 I s 29 ebZ2009 rd i kpok çf'k{k.k.kA
- bñjk xk/kh jk^Vh; ou vdkneh ea25 ebZ I s12 tw 2009 rd I Eilu 2000 çp ds Hkkjrh; ou I ok vf/kdkfj; ka ds fy, inklufr I Ec) mlur ou çcU/ku i kB; ;DeA
- jk^Vh; xkeh.k fodkl I h.Fkku] gñjkckn ea27 tgykbZ I s1 vxLr 2009 rd I Eilu **ty I dkj ifj; kst ukvkædks; kst uk , oadk; kzo; uA
- okfudh vuq U/kku I h.Fkku] t; ij ea 27 vSj 28 vxLr 2009 dksI Eilu **okfudh ifj; kst ukvkædks fy, vkfkd fo'yšk.k , oafu/kh; uA
- djy ou vuq U/kku I h.Fkku] i hpi] ffdj ij ea16 I s 20 uoEcj 2009 rd I Eilu **okfudh I k[; dh dk I xg.k I dlyu] eku; dj.k , oaçl kj^A
- tuojh 2010 ds nkjku ou vuq U/kku I h.Fkku] nsjknw eadod dsi FkDdj.k] i gpkU , oai fjj{k.k.k ij çf'k{k.k.k dk; ;DeA
- ou vuq U/kku I h.Fkku] nsjknw ea30 uoEcj I s 11 fnl Ecj 2009 rd dEI; Wj oSkfudka dsfy, **vk/kjHkwr okfudh^A
- df'k I wetsodh foHkx] rfeyukMq df'k fo'fo|ky;] dks EcVij ea25 ebZ I s5 tw 2009 rd **, -, e- dod dk i FkDdj.k , oai gpkU^A
- enj bZdkekjkbZ fo'fo|ky; dsi 'kq0; ogkj foHkx ea29 vxLr I s11 fl rEcj 2009 rd I Eilu i 'kq 0; ogkj , oadkyDe tsodhA
- ou vuq U/kku I h.Fkku] nsjknw ea 13 I s 17 tgykbZ 2009 rd I Eilu catjHkie; ka dk i kfj&i q#) kj ij çf'k{k.k.kA
- Hkkjrh; ç'kkl fud LVkD dklyst] gñjkckn ¼ I -I h-vkbZ½ ea vk; kstr **oSkfudka , oa çkS kSxdhfonka dsfy, uohurk çcU/k^ ij 14 I s 18 fnl Ecj 2009 rd çf'k{k.k.kA
- vkbZvkBZ, e- y[kuA ea1 I s5 tw 2009 rd **ou vuq U/kku dk; Zi) fr^ ij Hkkjrh; ou I ok vf/kdkfj; kadsfy, vfuok; Zçf'k{k.k.k tS k i; kbj.k , oaou ea-ky; }kjk ukfer fd; k x; kA
- vkbZvkBZ, Q-, e- HkSi ky ea18 I s22 tuojh 2010 rd I Eilu Mh-, I -Vh- dk; ;De dsrgr I epk; kads tkrh; fo"K; kai j çf'k{k.k.k dk; ;DeA
- vkbZvkBZi h-,] ubZfnYyh ea6 I s10 tgykbZ 2009 rd I Eilu oSkfudka , oa çkS kSxdhfonka dsfy, I kbcj dkuw] I puk I ç{k.k , oadEI; Wj ij rhl js mlur çf'k{k.k.k dk; ;De ij çf'k{k.k.k fn; k x; kA
- vkbZvkBZi h-,] ubZfnYyh eaI Eilu Hkkjrh I jdkj ds, I -o-Vh- foHkx dsç'kkl fud dkfeZkadsfy,



I kbcj dkuu] I p̄uk I ġ{k̄k ,oadEi; Wj ij 25 I s 31 ebZ2009 dksNBk mlur çf'k{k.k dk; ØeA

- Hkjr; ykcl ç'kkI u I ġFku ea9 uoEcj 2009 I s 29 tuojh 2010 rd oSkfud ,oaçs] k̄xdhfonkæds fy, 9th Qm. M̄sku çf'k{k.k dk; ØeA
- I [et̄odh foHkx] rfeyukMq d̄f'k fo'of̄o |ky;] dks EcVij ea26 ebZ I s5 t̄u 2009 rd **okfudh ea ekbdkj k̄btk dh igpku vk̄j mi; k̄s[^] ij çf'k{k.k Ĥk̄k-ok-v-f'k-i- }kj k çk; k̄str[^]A
- çcU/k çf'k{k.k ,oa vuq̄ U/kku I ġFku] Ĥ/kbz, e-Vh-vkj-½xk̄k ea15 I s19 Qjoh 2010 rd **ekuo I ġ k̄ku fodkl ea u, #>ku ,oa vut̄ko[^] ij vfuok; Zçf'k{k.k i k̄B; ØeA
- fcjyk çs] k̄xdh I ġFku] es jk] jkph }kj k vk; k̄str ikni vkf.od t̄odh ij 11 ebZ I s 6 t̄u 2009 rd mlur çf'k{k.k kA



iz, k̄s'kkyk ea rduhd̄a I h[k̄rs i f'k{k̄q

- Hkjr; jkl k; fud çs] k̄xdh I ġFku] ḡsjkckn ea 8 I s 13 Qjoh 2010 rd **dhV Qhjk̄k̄l ds

i FkDdj.k ,oa igpku ds vk/kkjHk̄r fl)k̄l̄r ,oa rduhd̄[^] ij çf'k{k.k kA

- d̄b̄hb; eNyh m | k̄s f'k{k̄k I ġFku Ĥ h-vk̄bz, Q-bZ/2 cI k̄k] eġcbZ }kj k vk; k̄str **vk.kfod t̄odh ,oa t̄o çs] k̄xdh rduhd̄[^] ij 10 I s20 fnl Ecj 2009 rd çf'k{k.k dk; ZkkykA



I h-vk̄bz, Q-bZ eġcbZ ea **vk.kfod t̄o&foKku rFk t̄o&i s] k̄xdh[^] i f'k{k.k dk; Zkkyk ds I ghkxh

- vkU/k fo'o |ky;] fo'kk[k̄ki VVue ea 29 vk̄j 30 fl rEcj 2009 dks d̄PNouLifr ,oadjy jhQ ij jk'Vh; I fefrA
- vkU/k fo'of̄o |ky;] fo'kk[k̄ki VVue ea 13 uoEcj 2009 dks Xyfsj vk̄l k I ġ çkZdh [k̄sh ij çf'k{k.k ,oatx#drk dk; ØeA
- gk̄e I kbZ d̄k̄yst] tcyij ea I Eilu j I k; u ds mi; k̄s ij 10 uoEcj 2009 dks xgu fopkj&foe'kZ dk; ZkkykA
- d̄k'B foKku ,oa çs] k̄xdh I ġFku] c̄xyk̄j ea 9 fnl Ecj 2009 dks I Eilu xgu fopkj&foe'kZ I =A
- dks EcVij ea 25 Qjoh 2010 dks ck; k̄s/ġ d̄l I k̄sVz e b̄M; k fyfeVM Ĥch I h-vk̄bz, y½ }kj k vk; k̄str Ārd I o/k̄u I smxk, ikni k̄a ds fy, jk'Vh; çek.khdj.k ç.kkyh ij rfeyukMq ds fy, jkT; Lrjh; t̄kx#drk dk; ØeA



विस्तार परिदृश्य



çLrkouk

foLrkj funskky; vfhçs y{; I engkafo'kskdj fd l kuka ds fy, mi; ðr ekmyka l fgr l k/kj.k çkç kx dh; i sst ka dsgLrkUj.k dk ç; kl djrk gA ; g Hkkjrh; okfudh vuq U/kku , oaf' kçk ifj"kn~l l Fkkuka , oadshka ds fofHku foLrkj dk; ðyki ka dk l elo; u djrk gSvkç 0; ki d foLrkj j .kultfr; ka dk fodkl djrk gA ; g i ; kbj .k çHkko eW; ka du rFkk vU; I æfU/kr {ks=ka ds {ks= eai jke'kZ l ok, aHh mi yC/k djrk gA

foLrkj funskky; dk mnas; viusnsko; ki h usvodZ fofHku çdk'kuç dk; Zkkykvka , oa çf'kçk.k dk; ðeka ds }kjk fofHku i .k/kfj; ka ea mi; ksch vuq U/kku ifj .kka dk çl kj djuk gA ; g i ; kbj .k çHkko eW; ka du , oa l Ec) fo'k; ka ea ijke'kZ l ok, aHh nsrk gA

ehfM; k , oa çdk'ku l ka[; dh , oa i ; kbj .kh; çHkko eW; ka du çHkoka okys funskky; dks çySvukç ck'ku l Z iEQyvkç U; it ySvkç ou l ka[; dh , oaok'kZl fj i kZ t s çdk'ku ka ou foKku dshka ds usvodZ , oa çn'ku xpkads }kjk okfudh foLrkj djus dk vf/knsk feyk gA

ehfM; k , oa çdk'ku çHkx okfudh l DVj ea vuq U/kku ifj .kka ds çl kj ds fy, ifj"kn~ ds l l Fkkuka }kjk viuk, tk jgs foLrkj dk; ðyki ka , oa j .kultfr; ka dks nsçkrk gA ; g çHkx ifj"kn~l l Fkkuka ds vuq U/kku , oafodkl dk; ðyki ka ds ekf l d C; kjs dks j [krk gSvkç i ; kbj .k , oae=ky; dks bl dh tkudkj h l svoxr djrk gA çHkx Hk-ok-v-f'k-i- dk U; it ySvkç vkç ck'ku l Z dk çdk'ku djrk gA ifj"kn~, oabl ds l l Fkkuka dh fj i kZ dks, df=r] l æfyr] l Eikfr vkç çdk'kr djrk gSft l sl ð n dsi Vy ij j [kk tkrk gA jkT; ou fofHkxka ds l g; kx l sou foKku dshka dh LFkki uk vkç ifj"kn~l l Fkkuka }kjk vachdj .k ds fy, çn'ku xpkads; u dk dke dkQh çxfr ij gA fofHku jkT; ka ea NCchl ou foKku dshka LFkfr fd, A ns k ds

fofHku ikfj&tyok; oh; {ks=ka eavkç çn'ku xpkadh LFkki uk dh xba ; g çHkx jkT Hkk'kk fglh ds fodkl ds fy, Hh l ok, ansjgh gSvkç ifj"kn~rFkk bl dsl l Fkkuka ea jkT Hkk'kk dsdk; kzo; u eaçxfr dk eW; ka du djrk gA jkT Hkk'kk fglh dh çxfr ij =ekf l d çxfr fj i kZ l Hh vkç l l Fkkuka, d eç; ky; l s, d= dh tkrh gSvkç l æfyr djds i ; kbj .k , oa ou e=ky; ds jkT Hkk'kk fofHkx dks çLrç dh tkrh gA çHkx jkT Hkk'kk fglh ds dk; kzo; u ij çf'kçk.k , oa dk; Zkkykvka dk vk; kst u djrk gA

i ; kbj .kh; çHkko eW; ka du çHkx dks 2003 eafolrkj funskky;] Hkkjrh; okfudh vuq U/kku , oa f'kçk ifj"kn~ ds rgr LFkfr fd; k x; ka ; g i ; kbj .kh; l çf'kç vkç çcl/k l sl æfU/kr okfud l okvka ds #i ea fofHku i .k/kfj; ka ea ifj"kn~ ea mi yC/k i ; kbj .kh; fo'kskkrk ds foLrkj ds fy, , d ukmy dshz ds #i ea dk; Z djrk gA çHkx fofok fdle ds fodkl kRed ifj; kst ukvka ds fy, i ; kbj .kh; çHkko eW; ka du v/; ; u djrk gA ; g LFkkuh; i ; kbj .k ij fodkl dsl Hkfor i rdy i Hkkokadsl çkj dsn"Vdksk ds l kfk fodkl kRed ifj; kst ukvka ds fy, i ; kbj .kh; çcl/k ; kst uk Hh rç kj djrk gA

i ; kbj .kh; çHkko eW; ka du çHkx ifj"kn~ ds l l Fkkuka ea i ; kbj .kh; çHkko eW; ka du çdksBka ds l kfk l elo; u djrk gSvkç tyfo | rç [kuu rFkk vol j puk fodkl l fgr fofHku fodkl ifj; kst ukvka ds fy, i ; kbj .kh; çHkko eW; ka du 1/2 vkç, -1/2 vkç i ; kbj .kh; çcl/k ; kst uk 1/2 , e- ih-1/2 rç kj djus l s l æfU/kr l okke l ok, ans ds fy, vU; l l Fkkuka ds l kfk l g; kx Hh djrk gA l okke okfud l ok, a ns ds fy, i ; kbj .kh; çHkko eW; ka du çHkx dh l kef; ZfuEu ij fuHkj djrh gS%

- l æBu eacgrfo | k fo'ksk fo'kskkrk dh mi yC/krka
- okfudh , oa i ; kbj .k l æfU/kr {ks=ka ea ; kç; , oa vutkoh ekuo l ð k/kuA



- I xBu ea100 I sT; knk o'k'kdck I e) Kku vk/kkjA
- ifj; kst uk I æfU/kr y{; dh I e; jçkk dk oknk A
- i wZea fofdl r I ok'ke i) fr; ka I sf'k{k.k , oau; h rduhdkadsl kfk vfHkuo ifjorZiA
- ekuo vf/kdkjka dsfy, ikjEifjd tkudkj ij tçj vçj i .k/kfj; kadh I ghfxrk dksçk&I kfgR djukA
- xqkoÜkk çek.khd'r I xBu vçj çfØ; k, a ¼/kbz , I - vks %9001 %2000¼A
- vUrjkZVh; vutkoA
vc rd i; kbj.kh; çHko eW; ka du çHkx usfuEu I DVjkadlso&Kfud I ok, anh gS%
- unh ?kkVh ifj; kst uk, a
- [kuu ifj; kst uk, a
- rsy [kçst ifj; kst ukvkadsfy, HkdEih; I oçk.k
- vçj kçxd@vol çpuk fodkl ifj; kst uk, a
- okfudh I Ecf/kr ifj; kst ukvka vuqph{k.k , oa eW; ka du@fodkl ki jkUr yçkk&ijh{k.kA
ekpZ2010 rd çHkx us` 1440-10 yk[k eW; dh 35 i; kbj.kh; çHko eW; ka du@i; kbj.kh; ççU/k; kst uk dk dk; Zfd; kA

I kç [; dh çHkx dks Hkjr ds okfudh {ks= I s I æfU/kr I çpuk dksl xçgr çØfer , oaçl kçjr djusdk mÜkjnk; fRo I k k x; k gA ; g çHkx f}okf'kd QkVh LVSV/LVDI bñM; k vçj =çkfl d fVEcj@cçcw VM cyçVv dk çdk'ku djds mÜkjnkf; Ro dks ijk djrk gA ; g çHkx fofHku okfudh i çkehVjka ij orZeku I çpuk ea 'kkfey djus gsrq I kç [; dh; vk/kkj okyh vuq U/kku ifj; kst ukvka ij Hh dk; Zdjrk gA bl çHkx ea, I -Vh, -Vh-vkbZ, -Vh-vkbZl h, - vçj , I -ih, I -, I - tç s mlur fo'yçk.kRed I kçVos j dk mi; kç djds vkçMka dh fo'kky ek=k ds I kfk dk; Zdjus dh fo'kçkKrk gA ; g o-v-Ia I e fo'ofok|ky; ds fofHku ikB; Øeka dk I çkyu djrk gS vçj ifj'kn-, oa bl ds I çkçka ea dk; kZur dh tk jgh fofHku vuq U/kku ifj; kst ukvkads fy, fo'kçk I ykç Hh mi yçk djrk gA

i kç.k.kh; Hkfe vçj ikfjra= ççU/k nçk I k>nkjh dk; Øe ¼, I -, y-bZ, e-&I h-i-h-i-h-½ i; kbj.k , oa ou ea=ky;] Hkjr I jdkj vçj fo'o i; kbj.k I çp/kk ¼t h-bZ, Q-½ dk , d I a çr mi Øe gS vçj I kr ifj; kst ukvkads I a çr jk'V'afodkl dk; Øe ¼ w, u-Vh-i-h-½ [kk| , oaçf'k I xBu ¼ Q-, -vçj vçj fo'o ççU dh I gk; rk I s Hkjr ea nI jkT; ka ea dk; kZur fd; k tk jgk gA

i kç.k.kh; Hkfe vçj ikfjra= ççU/k dk; Øe ea rduhdh I elbo; u Hkjr h; okfudh vuq U/kku , oaç'k{k ifj'kn- ds I g; kç I s rduhdh I jyhj.k I xBu ¼/h, Q-vçj ds }kjk mi yçk dj; k tk jgk gA fo'o ççU /kçjr efm; e Ldsy ifj; kst uk 'kç'kd Hkjr ea i kç.k.kh; Hkfe , oai kçjra= ççU/k dk eç; /kçj eaykusvçj mlur djus dsfy, uhr , oa I çkçr I çkç' dsrgr rduhdh I jyhj.k I xBu dks Hkjr h; okfudh , oa f'k{k ifj'kn-ea LFKki fr fd; k x; kA ifj'kn-eç; ky; vçj bl ds 'kçk I çkçka ea fofHku çHkx nçk ds fofHku Hkçka ea fLFkr i kç.k.kh; Hkfe vçj ikfjra= ççU/k ¼ I -, y-bZ, e-½ ifj; kst ukvka dks tc Hh vko'; drk gkçh gS rksok n'r rduhdh I gk; rk mi yçk djkrsgA Hkjr h; okfudh vuq U/kku , oaç'k{k ifj'kn-ea i kç.k.kh; Hkfe vçj ikfjra= ççU/k ifj; kst uk dk; kZu; u bdkbz dk ççU k ifj'kn-eç; ky; ea foLrkj funçky; dsrgr , d ifj; kst uk funçkd gA ; g ifj; kst uk fnuak 10 vxLr 2010 dks vçj pçj d #i I ççjEHk gçZ gS vçj fnuak 9 vxLr 2012 dks I ekr gkçhA

i kç.k.kh; Hkfe vçj ikfjra= ççU/k nçk I k>nkjh dk; Øe dsrgr ifj; kst uk LFKykaea'kçd] rVortZ, oa ioZh; ikfjra=ka I fgr fofo/k ikçjLFkr dh; {ks= 'kkfey fd, x, gS vçj ; g rVortZ dç'k] >e [kçh tyl ççU/k vçj Huty ççU/k I fgr Hkfe vçj ikfjra= ççU/k ds fofo/k i gçvçk I ek/kku djrk gA rduhdh I jyhj.k I xBu ¼/h-, Q-vçj ds mñç; , oamÜkj nkf; Ro

ifj; kst uk dk mñç; , d s dç'k , oa çkçd frd I a kku ççU/k I s I æfU/kr gLr{ki ka dk I elbo; u , oa



I k>k ep ij ykbA , l-, y-bz, e-& l-h-i-h- ij , d
foLrr ck'kyl ZHh tkjhfd; k x; kj ft l ea, l-, y-bz, e-
mnas; kqulfr l elb; u] rduhdh l elb; u] ifj; kstuk
I k>nkjka dk; De dk; Zdyika vksj , l-, y-bz, e-&
l-h-i-h- ds rgr 'kfev fd, x, ftyka ij l puk
'kfev dh xbz gA , l-, y-bz, e-& Vh, Q-vks dks
ifj; kstuk l pkyu fu; ekoyh dh cfr; kaeadk; Zkkyk ea
I k>nkjkaeackh/xbA

Vh, Q-vks dk nri jk vf/knf'kr y{; Hkie
fuEuhdj.k , oatsofo/krk ij bl ds cHko rFk tyok; q
ifjorZu'khyrk , oafjorZu }kjk ds Hkie cCU/k cHkfor
gsdsdkj .k adks crkrsgq fo'y sk.k d j usgrq, d xgu
vk/kjjs[kk fo'y sk.k djuk gA l puk dsf}rh; d l k rka
ds }kjk vk/kjjs[kk v/; ; u Hkie fuEuhdj.k ds orZku
Lrj dksn'kZu l pkydksfo'y sk.k vksj bl dsl ek/kku
dsfy, fd, tk jgsmik; kadk y[kk miyC/k dj kusdk
dk; Z djka l puk dsf}rh; l k rka vksj i j k'ka dh
Jdkyk ds }kjk v/; ; u Hkie cCU/k i) fr; ka fo'kskdj
l onu'khy ikjra-ka ea tyok; q ifjorZu'khyrk@
ifjorZu ds cHko dks mn'kVr dj l drs gA
**vk/kjjs[kk v/; ; u dsfopj.kh; fo'k; dksvflre #i
fn; k vksj vuorhZdkj bkbZ'k# dh xbA

Vh, Q-vks ds vf/knf'kr dk; Zdyika ea l s , d
vUr% l bFkkr dk; i) fr dk fodkl djuk FkA bl s
cklr djusdsfy, , l-, y-bz, e-& l-h-i-h- dsfy, , d
jk'Vh; l pkyu l fevr 1/4 u-, l-l h-1/2 LFkfr dh xbz gA
i; kbj.k , oa ou ea-ky; us vius dk; kZy; Kki u
12@2009 choh-1/4 h-Mh-1/2 fnukad 31 ekpZ 2010 }kjk
v/; {k ds#i eaf'ksk l fpo i; kbj.k , oaou ea-ky; ds
l kFk jk'Vh; l pkyu l fevr dk xBu fd; k gA
egfun'skd Hkjr; okfudh vuq U/kku , oaf'k[kk ifj'kn-
l nL; ka ea l s , d gs vksj mi egfun'skd 1/2 l r k j 1/2
, u-, l-l h- dsl nL; l fpo gA
foUk

ifj; kstuk dh dy Lohdr ykx
; w, l - \$ 1]985]267 gS ft l ea l s th-bz, Q- foUk
; w, l - \$ 981]412 dsfy, gS vksj ; w, l - \$ 1]003]855 dh

'ksk jk'k ifj'kn-}kjk l g&foUk ds }kjk gA Vh, Q-vks us
fnukad 31 ekpZ 2010 rd - 33-37 yk[k dk 0; ; fd; k gA

jk'Vh; ou i qrdky; , oal puk dsl n
jk'Vh; ou i qrdky; , oal puk dsl n f{k.k
, oanf{k.k&iwZ, f'k; k eaokfudh , oal Ec) fo'k; ka ij
nLrkost l xg.k eal e) gA jk'Vh; ou i qrdky; , oa
l puk dsl n vius miHkDrkva ea l Hk cdkj dh
i qrdky; , oal puk l ok, a; Fk&l UnHk jhQjy] __.kj
jhckxkQh orZku tkx#drkj vUr% i qrdky; __.kj
e'khu i Buh; vkpMk vk/kj l s l puk dh i qrdky;
miyC/k dj jgk gA o'kZ ds nksku] ckA; i Bu dsfy,
miHkDrkva ea dy 29]339 i qrdk yku ij nh xbA
bl ds vykok i qrdky; ds Hkrj 53]915 nLrkost kadks
du l YV fd; ka

2]018 i qrdk vksj vU; nLrkost ka dks 'kfev
dj ds nLrkost l xg.k dsl e) fd; k x; kj ft l ea l s
654 i qrdk 11-64 yk[k dh ykx ij [kjnh xbz vksj
364 i qrdk vuq ea cklr gA i qrdky; 99 Hkjr; h;
vksj 118 fon'sh if=dk, aeak jgk gA bl ds vykok
ifj'kn-ds rgr l Hk l bFkka dsfy, 14 b&t kuy
eak, x, A l cLØl'ku ij dy -94 yk[k [kpZ fd, A
bl us 265 if=dk, afu'k'd Hk cklr dhA

i qrdky; vius cpl fMks ds }kjk ifj'kn-
cdk'ku dh fcØh dj jgk gA o'kZ ds nksku jkT;
ou foHkxk fo'ofokj; ka vkn ea 509 i qrdk , oa
19 oh-l h-Mh- dh fcØh dh xbA

i; kbj.kh; l puk c.kkyh
i; kbj.k , oa ou ea-ky;] Hkjr l jdkj us
jk'Vh; ou i qrdky; , oal puk dsl n eaokfudh ij , d
, fol dsl n dh LFkki uk dh gA o'kZ ds nksku dsl n us
u, l UnHk ea l dyu dj ds fuE vkpMk vk/kj dks
l e) fd; kj ft l ea; w/kj-, y-%www.friervis.nic.in
bAM; u QkV Vh, cL VDV] l gHkxh ou cCU/k cks kfi l
t fy' ykj] i kuy l QkV V , .M , lok; jev bu cS



okysdlnzdho: l kbV ds}kjk buVjuV/ igpp gA bl ds
 vykoc tkluyI ds l kjkak i"Blk Hkjr dk oukoj.kj
 jkT;okj vls rc ftykokj] vlxkeh jk'Vh; ,oa
 vlrjkZVh; l Eesyukl l feukjkl l aksBh] cf'k{k.k
 i kbØeladh?kksk.k dksHh os: l kbV eaMkyk x; k gA
 izdk'ku%okfudh ij , flol dnmz usou ulf'kdhV ,oa
 jkskavls tyok;qifjorZu ,oaou ij , flol okfudh
 cysVU dsnksFkhesVd vad izdk'kr fd, A dnmzso"kdz
 nksku f}Hkkr"kd Jkkyk izdk'ku%, Uok; jebV , M QkMkV
 U; nt Mkb tL V Hh izdk'kr fd; kA

4-1 ou foKku dlnz %oh-oh-ds½ vksj
 çn'kZu xkpo %Mh-oh-½ ij fj ikvZ ou
 foKku dlnz

Hkjr; okfudh vuq U/kku ,oaf'k{k ifj"kn-us
 jkT; ou foHkxkads l fØ; l g; ksk ds l kfk vi usvkB
 l lFkkuka ds ek/; e l s fofHku jkT; k@ l ak {ks=ka ea
 26 ou foKku dlnzadh LFkki uk dh gA ou foKku dlnzka
 dk vk/kkjHkr mnns; fdl kuka ou vk/kfjr m | kskka
 l fgr miHkdrk l engkaeifj "kn-vls bl ds l lFkkukarFkk
 jkT; ou foHkxka}kjk fod l fr fofHku çks ksf; kadh
 ç l kj djuk gA

ou vuq U/kku l lFkkuk] ngjknw us
 gk'k; kjij %atkc½ fiatks %gfj; k.kk½ gY}kuh
 %nUkjk[k.M½ p.Mhx<+¼ ak {ks= p.Mhx<½ , u-l h-Vh-
 fnYyh vls dkuig ea06 ou foKku dlnzLFkkfir fd,
 gA

fdl kuka vls okfudh dsfy, xj çdk'B ou
 mit dsegRo ço/kZu ,oami; ksk vls i ksk'kkyk ,oa
 jki.k rduhdka ij ou foKku dlnz dk; Døe dsrgr
 2009&2010 dsnksku dgy 11 çf'k{k.k vk; kstr fd,
 x,A

ou foKku dlnzdsrgr ekMly i ksk'kkyk dsfy,
 l ak {ks= p.Mhx<+vls fiatks %gfj; k.kk½eaLFkki uk ij
 dk; Zçxfr ij gA , u-l h-Vh- fnYyh eaLFky dksvlfre

#i nsusdk dke çxfr ij gsvls vks pkfjdrk, aijh
 djusdscn dke 'k# gkskA

ou vuqf'kdh ,oa o{k çtuu l lFkkuk]
 dks EcVij usdks EcVij %rfeyukMqds dffkju %dgy½
 vls ikv Cys j %v.Meku ,oafudkskj }hi l engkZ ea
 çR; d ea, d&, d dgy 03 ou foKku dlnzadh LFkki uk
 dh gA ou foKku dlnz rfeyukMqds, d Hkx ds#i ea
 dks EcVij ea, d o{k l puk dlnzdh LFkki uk dh xbZgA



MW th , l - jkor] egfunskd] Hk-ok-v'f'ki-] ngjknw ou foKku dlnz
 dks EcVij eaekMly i ksk'kkyk dk mn?kVU djsrgq
 fdl kuka ,oaou depkfj; ka dsfy, çf'k{k.k dk; Døe
 vk; kstr djusgrqou foKku dlnz dks EcVij ea, d
 ekMly i ksk'kkyk dh LFkki uk dh xbA dgy 150 fdl kuka
 vls 30 ou foLrkj vf/kdkfj; kadsfu th Hke dk; Døe ea



Okk l puk dnmz ou vkuqf'kdh ,oa o{k iztuu l lFkkuk] dks EcVij
 o{k [ksh eaç; Dr egRo i wkZ o{k çtkfr; kadh [ksh ,oa
 çcU/k] xqkoUk jki.k LVkM mRiknu] tS mojd]
 tS [kn ,oa Dyksuh; çks ksdh vfn ij ou foKku
 dlnzka}kjk çf'k{k'kr fd; k x; kA

l puk vls foLrkj dlnz dffkju eaou foKku
 dlnz LFkkfir fd; kA ihph ea dgy ou vuq U/kku
 l lFkkuk vls dgy ou foHkx ds l g; ksk l sdf'k esyk
 vk; kstr fd; k x; kj ft l ea200 fdl kukaushkx fy; kA
 dgy dsegRo i wkZ o{k çtkfr; kadh [ksh ,oaçcU/k ij
 çf'k{k.k dk; Zkkyk vk; kstr dh xbA



ou foKku dlnh iKZ Cysj ea ,d ekMy iKk'kryk dh LFki uk dh xBA 2010&2011 eaforj .k ds fy, 15]000 iKka dks yxkus ds fy, dk; Zdyki 'k# fd, x, A

dk"B foKku , oa cks| kfxdh I LFkku] caxyk] usduw/d] vku/kcnsk vls xkok eaCR; sd ea , d&, d dgy 03 ou foKku dlnhadh LFki uk dh gA I LFkku usdbZl jfHkr i kni kadh i fuk; ka! sl a/k rsykads fu"d" k. lZdsfy, , d iKZ/ey vki ou bdkbzvfHkdfYir vls I jfpr fd; ka bdkbz dk I pkyu cgr vki ku gS vls HkjH Hkj de dPpsinkFkZdk ifjogu djusdctk; jki .k LFky eabl dk ifjpyu dj I drsgA ; g ykx vls I e; nksdks?Kvkrh gA bl cdkj dh rhu bdkb; ka dh I jpk dh xBZ vls c'n'ku ds fy, duw/d] vku/kcnsk vls xkok dsou foKku dlnhaevki firZdh xBA veku; k /khdj .k pbcj] JO; &n'; midj .k] Qutp] tS h vU; enj LFkkuh; Hk'kk ea iKZ Vj rFk i=d tS h cI kj I kexh ou foKku dlnhaemi yC/k djkbZ xBA , d iKk'kryk LFkfir dh xBZ vls , d iKZ/h gml I 'kM us/ ?kj] #V Vaj] i kuh ykbu] igjk o fuxjkuh dh I fp/kk, a rS kj dh xBA vof/k dsnk] ku vuslkaç' k{k.k , oaçn'ku dk; Deka dk vk; kst u fd; ka c'n'ku xlpkadsfd I kuaea iKk'kadk forj .k Hk fd; k x; ka

ou foKku dlnh ou vuq U/kku dlnh gbjkcn dsrgr dgy 12 c'f'k{k.k dk; De vk; kstr fd, x, A ou iKk'kryk o{k I dkj dk"B foKku tSfofo/krk , oa i; kbj .k I afU/kr fo" k; ka vki nk cclU/ku tS sfo" k; ka ij dgy 416 I gHkfx; kausç' k{k.k cklr fd; ka

m". kdfVclU/kh; ou vuq U/kku I LFkku] tcyij usjk; ij ANUkhl x<h ukjk fMi kse/gkj'V% tcyij %e/; cnsk/vls dkjki w /mMh k/zeacr; sd ea , d&, d dgy 04 ou foKku dlnhadh LFki uk dh xBA ou foKku dlnhadh ds vUrxZ foHku LFkku ea vuslka c'f'k{k.k , oaçn'ku kadk vk; kst u fd; k x; ka o"kkZ ou vuq U/kku I LFkku] tskjgkV usvl e] v# .kpy cnsk] fetk] e] ulxkySM vls f=i gjk eaCR; sd ea, d&, d dgy 05 ou foKku dlnhadh LFki uk dh gA

I LFkku usou foKku dlnhadh ds foHku dk; Zdyki ka ds cHkoh dk; Wbo; u dsfy, vls ou foKku dlnhadh ds ukMy vf/kdkfj; ka eacgrj I elb; u dsfy, 29 tuojh 2010 dksou foKku dlnhadh vls c'n'ku xlp ds ukMy vf/kdkfj; kadh cBd dk vk; kst u fd; ka I Hk i kp ou foKku dlnhadh ds ukMy vf/kdkfj; ka mudsçrfuf/k; ka uscBd eaHkx fy; k vls vi u&vi usdlnhadh cçfr dk C; kj k çLrç fd; ka

v# .kpy cnsk ea foHku ou o{k}k vls/kh; i kni k ckl , oaçn'ku ds iKk'kadk ds fodkl dsfy, phi k ea , d ekMy iKk'kryk rS kj dh xBA ekMy iKk'kryk] phi k dsl ekhi tS [kn ds mRi knu dsfy, , d Nks/k ofeZ E iKZ Vax pbcj dk fuelZ k fd; k x; ka I e; & I kj .k dsvuq kj c'f'k{k.k , oaçn'ku I Ei lu gpyka

ou foKku dlnh ulxkySM ea ,d ekMy iKk'kryk dh LFki uk dh xBA LFkkuh; bZku dk"B c'tkr; kads iKk'kadk smxkus dsfy, ij h{k.k fd; k x; ka foHku LFkku ea ou foHkx de p{kj; ka fd I kulka I a p ou cclU/ku I feir; ka xS I jdkjh I xBuka dsfy, xgu c'f'k{k.k , oaçn'ku dk vk; kst u fd; k x; ka

ou foKku dlnh fetk] e ea ,d ekMy iKk'kryk dh LFki uk dh xBA ekMy iKk'kryk ea Nk; k ?kj] /kiedk d{k] rkj ckl+fl pkbZç .kryh Hk .Mkj?kj ds I kFk [kryk 'kM] LFk; h I hebVM D; kfj; ka I Ei vls dEi kL Vax bdkbz tS h foHku I fp/kk/vkadk I tu fd; k x; ka i .k/kfj; kads {kerk fuelZ k dsfy, vuslkaç' k{k.k dk; De vk; kstr fd, x, A

ou foKku dlnh f=i gjk ea foLrkj I kfgR; ds ek/; e I scs] kfxdh I puk dk foLrkj fd; k x; ka I e; I kj .k dsvuq kj c'f'k{k.k , oaçn'ku kadk vk; kst u fd; k x; ka glfr i kj ea, d ekMy iKk'kryk LFkfir dh xBA

ou foKku dlnh vle ea ekMy iKk'kryk ea i wkbj {ks- dh egRo i wZ i kni c'tkr; kadh iKk'kryk ea i wkbj {ks- dh egRo i wZ i kni c'tkr; kadh iKk'kryk] LFk; h I hebVM D; kfj; ka Nk; k?kj tS h foHku I fp/kk/vka dk I tu fd; k x; ka foHku LFkku ea i .k/kfj; ka ds fy, foHku fo" k; ka ij c'f'k{k.k vls c'n'ku fd; k x; ka



'kqd ou vuq U/kku l a.Fkku] tskij us jktLFkku] xqjkr jkT; eavkS nknjk vks uxj gosity neu , oam;w ¼ ¼ k {ks=½ ea 03 ou foKku dlnka dh LFkki uk dh xbA ou foKku dlnzchdkuj] jktLFkku ep gkb&Vfd ul jh fcNkoy] chdkuj vks I SsykbV ul jh] ekgux<} tS yej eamPphdj .k@uohudj .k dk; Z'kq# fd, x, A fcNkoy ul jh] chdkuj ¼02½ vks I SsykbV ul jh ekgux<+tS yej ¼02½ eaijkus, xkskM gkml dk



ku foKku dnz I SsykbV i ksk'kkyk] ekgux<+ea i q#)kj dscin , xkskM gkml



fd l ku Hkou] chdkuj eafdl kuka ,oa {ks= dk; Z'rkZ/kadk i f'k{k.k

xqjkr ou foHkkx] xqjkr] jkt dks/ ds vuq U/kku , oafodkl dlnzeou foKku dlnz dsrgr gkbZVfd ul jh mPphdj .k@uohudj .k dk; Zfd, x, A i wkZFLcdyj ç.kkyh I S] pksjQk QkSj ¼24½ LFkfir fd, vks , xkskM gkml rFkk /kiedk d{k dks I 'kDr



vuq U/kku , oafodkl dnz jkt dks/ ¼xqjkr½ eaggkb&Vfd i ksk'kkyk ea ekbQk&QkKj dh foFvak , oalfk; hdj .k



gkb&Vfd i ksk'kkyk] chdkuj ea uohudr i kkyhgml



gkb&Vfd i ksk'kkyk] jkt dks/ eamxk, x, mPp xqkoUk chtkqj

uohudj .k fd; k x; kA fcNkoy] chdkuj ¼01 I S½ vks ekgux<} tS yej ¼01 I S½ dh i ksk'kkyk ea i kkyh gkml ¼kiedk d{k½ dksuohudr fd; kA i jkus#V V½ j LVSMka ¼200% dksfj is j ¼ QkbZ oSMax vks i sUvax½ fd; kA fcNkoy] chdkuj ea, d dEikV pscj ¼LFk; h I jpu½ dk fueZk fd; kA fd l kuka vks {ks= dk; Z'rkZ/kadsfy, çf'k{k.k dk vk; kst u fd; k x; kA fd l kuka i . k/kfj; kacs fy, gkb&Vfd ul jh fcNkoy] chdkuj ea çk d si I fl ujsj; k ¼khtjh½ ds mPp xqkoUk i ksk ¼10000½ mxk, x, A

cuk; k x; kA vadj .k d{k ds; woh foYe dksnyk x; k vks fjisfjak@I 'kDr dj .k ds fy, xbu us/ doj ¼800 oxZ ehv½ Hh miyCk dj; k x; kA #V V½ j] ekbQkS QkKj] vkbju #V V½ j LVSMk vadj .k d{k LVSM] xMzu uk; ykM i kbi vks ul jh Vy fdV vkfn [kjns vks] gkb&Vfd ul jh ou foKku dlnz jkt dks/ dks I 'kDr cukusdsfy, vki firZdh xbA



th ,Q vjv vkj xkxkxuj eafdl kuka ,oa
{ks= dk; Zrka/ka dk i f'k{k.k

fdl kuka vjv {ks= de p{kj; ka ds fy, cf'k{k.k vk; kstr fd; k x; ka i .k/kfj; kadsfy, gkb&Vfd ul jh ou foKku dshz jkt dks/ ea nl o{k ctkr; ka ds 5000 mPp xqkoUkk i kskmxk, x, A

[kkuoky] fl Yokl k vknjk ,oauxj gosy l ak {ks=1/2eaou foKku dshzdh LFkki uk dk dk; Zcxf r ij gA

fgeky; u ou vud U/kku l hFkku] f'keyk us l hnjuxj] fgeky cnsk ea ,d vjv tkuhij] tEej tEewo d'ehj ea, d dy 02 ou foKku dshz dh LFkki uk dh gA l hFkku us fuEu l kfgR; cdf'kr fd; k&U; nt ySj *QkVh , DI Vb'ku LVShh^ ij l Eiknr i qrd vjv fglh ea De'k%pyxst k *cy^ vjv *dskey^ ij iEQyV /B/A *x&cdk'B ou mit % fodYi vjv tkx#drk^ ij tkx#drk dk; De vjv **isk.kh; ,oavkt h fodk fodYi kadsfy, vjv/kh; i kni ka dh vUr% [kstr^ ij cf'k{k.k vk; kstr fd; k x; ka bl h cdkj fnukad 27 l s30 ekpZ2010 rd tEew, oad'ehj jkT; eafdl kuka ds fy, **df'k ofudh % i .k/kfj; ka ea tkx#drk ,oafodYi^ ij Hke.k vk; kstr fd; k x; ka mi ; Dr jkT; dsfdl kuka dks mUkj[k.k.M vjv gfj; k.kk jkT; kaeyst; k x; ka bl Hke.k eadty l =g fdl kuka us Hkx fy; ka fdl kuka dks uohure df'k ofudh cks ksf; ka ,oagLr{ksi ka dksfn [kus ds fy, gfj}kj ds l ehi df'k ofudh c.kkfy; kavjv gfj; k.kk ea; eqkuxj ds l ehi cf l) df'k ofudh *gkj k QkeZ dk Hke.k dj; k x; ka fdl kuka usekmy xkp ' ; keij] ou foKku dshz nsjknw vjv ou vud U/kku l hFkku] nsjknw ds l xgky; kadk Hke.k Hk fd; ka

{ks= vud U/kku LVsku] ch/kj txrl qk %eukyh/2 ea cn'ku i ksk'kkyk dh l qo/kvka dh LFkki uk ,oa mPphdj.k fd; ka ou foKku dshz tEew 1/2 tEew ,oa d'ehj/2 ea ou mRi knrdk c<kus ds fy, cks ksf; vjv vud U/kku gLr{ksi ka ds mi ; kx ij cf'k{k.k vk; kstr fd; k x; ka ou foKku dshz tkuhij] tEew 1/2 tEew ,oa d'ehj/2 ds rgr 2250 oxZ eh {ks=Qy ea cixokuh] tEewei ksk'kkyk LFkki r dh xBA

cn'ku xkp 1/4h-0kh-1/2

Hkjrh; ofudh vud U/kku ,oaf'k{k i fj'kn-ds fodf l hFkku@dshz}kj fodf l r cks ksf; ka ds gLrkrj.k dsmns; ds l kfk cn'ku xkp dh LFkki uk ds cLrko dksemZ# i fn; k x; ka

cn'ku xkp] ' ; keij] nsjknw

xkp ' ; keij] dks ou vud U/kku l hFkku nsjknw }kj nsjknw ds l ehi cn'ku xkp ds#i ea fodf l r fd; k x; k gA xkp eaHxoku xtels kx l fevr] ' ; keij] xkp ds l g; kx l s ,d ekmy i ksk'kkyk Hk fodf l r dh xBA fuEu l jpkuk, a i kstr dh xBZ vjv fodf l r ou l o/kud dk; dyki kadsfy, c; Dr dh tk jgh gsvjv l ehi orh {ks= dsy kadsfy, Hk cn'k dh tk jgh gA

- fuEu ykx /kied d{k&, d
- co/ku bdkb&, d
- i wkZi kbi fQvax ds l kfk okVj Vfd&, d
- 0-5 , p-i-h-ekj ds l kfk ekj/gm l &, d
- Ekm.VM , x y vkbu D; kfj; k&vkB
- Nk; k?kj&, d
- cht 'kdu lys/Qke&, d
- ofeZ Ei k&V bdkb&, d
- #V V&l &95 Cyk

fj i k/kz/khu vof/k ds njs ku fd, x, dk; dyki

- ekmy xkp eaou vud U/kku l hFkku dsou l o/kud ,oa vdk'B ou mit }kj vjv/kh; ,oa ofudh i kni kadh vki rA



- वरुव/वह; , oafkudh ey dh çtkfr; kack j [kj [kkoA
- वरुव/वह; , oafkudh egRo dh fofHku çtkfr; kads i kskmxkuka
- cfu; kokyk] u; kxkp] x. k'ki g] l sykdp] vfEcokyk] l pkyki g] ' ; kei g] nsjknw ftys ds fdl kuka ea muds [krkaeamxkusdsfy,] vf/kdrj , ykshjk , oa , Ljxsl jst hekl l i kskack forj .k fd; k x; kA
- okf'kd ; kst uk ds#i eaxkp eavk/vk; ikni ka dh okfudh , oajki .k rduhd ij nksç'f'k{k.k fn, x, A



MW th , l - jkor] egkfunskd] Hk-ok-v-f'k-i-] nsjknw in'ku xko i ksk'kkyk dk mn?kVv djrsgq

çn'ku xkp] dkfUM; ij] dks EcVij

jki .k vk/kfjr vFKD; oLFk ds fy, dk; [ks-] tukaddh] l kekt d vkfkd volFk vkadsew; kadu ds fy, xkoka ea, d Lrj l o'k.k 'k# fd; k x; k rkd i ksk'kkyk yxkbz tk l dA i ksk'kkyk ds mi; ksc dsfy, i ksk'kkyk ea, d ckj oSy LFkfr fd; k x; kA l Qy dfr okfudh ekmyka , oa ekmy jki .kka dh LFki uk ds fy, 12 fdl kuka l sOkzHkie; kadh igpku dh xBA çn'ku xkp i ksk'kkyk dk vls pkfjd #i l segkfunskd] Hkjr; okfudh vuq U'ku , oaf'k{k ifj'kn-}kj fd; k x; kA egkfunskd] Hk-ok-v-f'k-i- ds l kfk xkeh. kka, oafdl kuka dh ikjLifjd cBd dk vk; kst u fd; k x; kA xqkoUk jki .k LVkkl mRiknu] jki .k çcU/k] mRiknu vls tB [knka , oa tB&mo] dka ds mi; ksc ij çf'k{k.k dk; De vk; kst r fd, x, A {ks- i q'rai j blgamxkusds fy, fdl kuka ea i kskka dk forj .k fd; k x; kA dkfUM; ij xkp dstutkr xkp b#yji kBh ea, d ckj oSy cuk; k x; k vls tutkrh; Hkie; kaeao{k Ql ykadksyxkusds fy, bl dk mi; ksc gksjgk gA

o'k mRi knd esyk 2010

ou vkuqA'kdh , oa o'k çtuu l kFku us dks EcVij eafnukd 18 vls 19 Qojh 2010 dks o'k mRi knd esyk vk; kst r fd; kA Jh t; jke ješk ekuuh; jkT; ea-h'kora- çHkj' i; kbj .k , oaou ea-ky;] Hkjr l jdkj }kj bl dk mn?kVv fd; k x; kA dk; De ds nksku] mlgkns ; vlsyVI ds pkj Dykska vls dSokfjuk bDol hfVQky; k dspkj Dykskadkstkh fd; k] ftUga'kdHkie volFk vkadsfy, fodl r fd; k x; k gA



MW th , l - jkor] egkfunskd] Hk-ok-v-f'k-i-] nsjknw fdl kuka ea xqkoUk i kskack forj .k djrsgq



Jh t; jke ješk ekuuh; jkT; ea-h' i; kbj .k , oaou ea-ky; vls MW th , l - jkor] egkfunskd] Hk-ok-v-f'k-i- dSokfjuk ds Dykska vls fregh U; nt yslj 1/2 dls tkjh djrsgq



चन'कु खप] चि कुगयि] चयि

दक'ब फोकु , ओचक'स'कुखध'ल'फकु] चयि'स'कु
ज'कु .क रदुह'द'ि'ज'चि कुगयि'ह'चन'कु खप]ओच'फ'कु'क'क
, ओचन'कु'द'क; डे'व'क; क'र'द'क; क'ख; क'अ'द'ल'कु'क'ए
फ'ल'य'ज'व'क'द'स'2000'ि'कु'क'क'द'क'f'j'k'f'd'; क'ख; क'अ'
1'त'य'क'ब'2009'द'क'स'फ'कु'क'क'द'क; डे'ए'द'य'26'f'ल'कु'क'स'
ह'क'x'f'y; क'अ

चन'कु खप] एह'य'x'ख'कु'व] त'कु'ग'कु'v

एह'य'x'ख'कु'v] त'कु'ग'कु'v] v'ले'द'स'ओ'कु'z'ओ'v'ल'
चन'कु खप] ds #i'ए'p; f'ur'f'd'; क'ख; क'अ'द'य'
220'ि'f'j'k'k'ad's'l'k'f'k'rh'u'N'k's'x'k'p'k'a; F'k'k'&'H'k'x'i'g] e'/k'j'g'
, o'ax'k's'ol'n'i'g' d'k's'f'ey'k'd'j'x'p'g'a

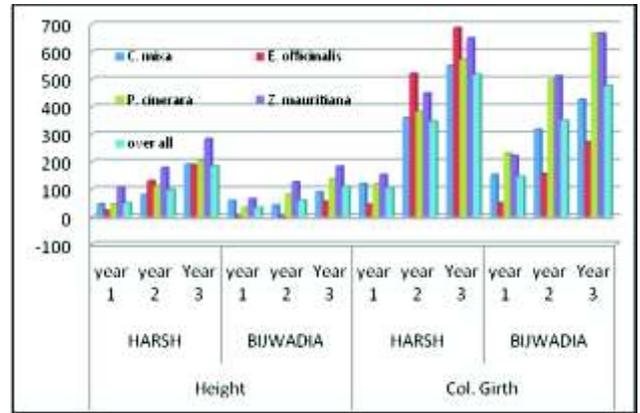
चन'कु खप] ग'कु] त'कु'स'कु'i'g

2007'द'स'न'कु'कु'न'स'f'द'ल'कु'क' ; F'k'k'&
J'her'h'l'hr'k'p'k's'k'j'h] f'c't'ok'f'm'+k'x'p'v'k's'
J'h'j'k't'bn'z'f'l'g'p'k's'k'j'h] g'k'z'x'p'dh'ig'p'ku'dh'x'b'z'v'k's'
r'n'ud'k'j'le>k's'k'i'=ij'g'L'r'k'k'j'f'd', x, v'k's'j'k'i'.k'd's'
f'y, H'k'ie'dh'r's'k'j'h, o'av'u; v'k's'p'k'j'd'r'k, a'k'f'dh'x'b'A
i'j'h'k'k'a'dh'L'f'k'k'i'uk'v'x'L'r'2007'ए'dh'x'b'A
p'k'j'ओ'कु'च'त'k'f'r; क'अ; F'k'k'&'च'कु'k'f'i'l'f'l'uj's'j'; k]'
, f'É'c'y'd'k'v'k'k'Q'f'l'uf'y'l] f't't'h'Q'l'É'k'f'k'z'k'uk



ज'कु .क'द'स'क'न'ए'कु'य'ज'कु .क'द'क'i'f'j'n';

v'k's' d'k'f'm'z'k'f'e'd'l'k] d'k's, d'n'l'j's'd's'l'k'f'k, d'y'ए'
v'k's' l'अ'k's't'u'ए'ज'कु'ir'f'd'; क'ख; क'अ'चन'कु'द'k's'rh'u'
च'f'r'd'f'r; क'अ'ए'; k'n'f'p'n'd'h'r'c'y'k'w'l'v'f'h'k'd'y'i'ए'r's'k'j'
f'd'; क'ख; क'अ'g'N%'e'g'd's'v'ur'j'k'y'ij'm'uk'j't'h'f'ork', o'a'
of) ij'v'k'p'm'le'द'k's'v'f'h'k'f'y'f'k'r'f'd'; क'अ'Q'l'y'm'R'i'k'nu'
h'h'v'f'h'k'f'y'f'k'r'f'd'; क'अ'rh'u'É'g'É'ank's'k'al'f'k'y'k'É'ach'j'f'É'h'd'
m'uk'j't'h'f'ork'90%'f'h'a, d'l'y'c'k'n'm'uk'j't'h'f'ork'É'e'k%



55% v'k's' 58% f'h] f'd'ur'q'n'l'j's'l'ky; g'30'v'k's'
41'च'f'r'kr'f'h'a'n'k's'k'a'ij'h'k'k'k'É'É'f't't'h'Q'l'É'k'f'k'z'k'uk'
, o'ach'k'k'f'i'l'f'l'uj's'j'; k'us'c's'r'j'of) d'k's'n'k'z'k'j'
t's'k'ç'k'j'f'É'h'd'L'r'j'dh'v'i'É'k'Á'p'k'z'v'k's' d'k'w'j'0; k'l'
É'च'f'r'kr'of) }k'j'k'n'k'z'k'x; k'g's'¼'Q'x'j'&1¼'Á



Q'l'y'dh'k'r'h'd'k's'n'k'z'k's'g'g, d'l'y'c'k'n'
É'k'w'j'j'k'i'.k'd'k'if'j'n';

f't't'h'Q'l'É'k'f'k'z'k'uk'v'k's'ç'k'k'f'i'l'f'l'uj's'j'; k'us'
c's'r'j'of) d'k's'i'k's'kr'f'd'; क'अ'l'É'x'z'm'uk'j't'h'f'ork'É'e'k'k'
40% v'k's' 30% f'h] b'l'd's'c'k'n' d'k'w'w'z'k'f'e'd'l'k'
v'k's', f'É'c'y'd'k'v'k'k'Q'f'l'uf'y'l'j'g'a, f'É'c'y'd'k'
v'k'k'Q'f'l'uf'y'l'us'd'e't'k'j'm'uk'j't'h'f'ork'd'k's'c'n'f'k'z'f'd'; क'अ'
चन'कु खप] y'k'uk'c'k'd'k] f'l'j'É'k's'j

y'k'uk'c'k'd'k'É'k'w'j'x'p'É'É'e'/k'É'D[k'h'ik'yu'v'k's'
, dh'r'uk'k'h't'h'o'ç'c'l'v'k'É'ij'd'É'i'd'k; Z'k'k'y'k, o'ax't'É'h.k'
c'É'd'k'v'k; k's't'u'f'd'; क'ख; क'अ'c'k'a'ik's'k'k'k'y'k'r'd'uh'd'k'a'
, o'a'b'l'd's'ç'c'l'v'k] f'u'É'uh'd'r'L'f'k'y'k'a'd's'ik'f'j'&l'É'k'j'@
v'k's'k'h; i'k'ni'k'ad's'ç'o'k'z'ij'f'of'h'k'u'ik's'k'k'k'y'k'r'd'uh'd'k'a'
ij'l'p'uk'h'h'ç'l'k'f'j'r'dh'x'b'Á

v'k's'k'h; , o'a'l'g'f'h'k'r'ik'ni'k'r'h'd's'ç'k'É'l'k'g'u'
ç'É'e.k, o'a'f'oi.ku' d's'f'y, 25'l's'27'É'k'p'z'2010'
rd'É'k'w'j'x'p'¼'y'k'uk'c'k'd'k]½'d's'f'd'l'k'k'a'd's'f'y,



t kudkj Hke.k dk vk; kst u fd; k x; kA bl Hke.k ea ekMy xlp dh pkj efgykval fgr dny chl fdl kukaus Hkx fd; kA

djhc 1-5 gDVs; j ds {ks= ea MBMkdsykel gfeYVkuh dsçn'kz jki .k LFKfir fd, A 4eh- x 4eh- ds vUrjky ij djhc 665 i kni kadksjksi r fd; kA

ekMy xlp ds fdl kuka dh ekx ij MBMkdsykel gfeYVkuh ds i kSk 1835½ fdl kuka ea forfjr fd, x, rkd bl çtkr dks fdl ku vius mi; q r {ks= i qrk@Hke; kaeajksir dj l dA

fokku vLre miHkDrkva ea çn'kz grq i klyhgkml dks ifjpkjuh; fd; k x; kA çkSj kSxdh ds çn'kz grq ofe dEi kSLVak bdkbz dh LFKki uk dh xbA i klyh i kbi kadksMkydj , oahk. Mkj .k Vfd dksr\$ kj djds fl pkbZl fpo/kvka dksl 'kDr cuk; k x; kA

egRo iwZ vSk/kh; i kni ka çtkr] ; Fk& edkdckyk] ?kr dèkj] nkeckj] fuEw?kkl] l rffo; kj gjMf- cgMk] vkky] vdjdj] i Fkj pVVk] cp] çggeh , oar gyl h vkfn] dks i kSk'kkyk ea mxk; k x; kj rkd xkeh.k vk; c=kus grq [krh dsfy, çn'kz , oabudk ijortz vxhdj.k gks l dA df'k okfudh ç.kkfy; ka ea , dhdj.k dsfy, i kSk'kkyk ea egRo iwZ df'k okfudh çtkr; ka; Fk& cy] i koyksu; k vSj ckd çtkr; ka dks yxk; k x; kA

4-2 çkSj kSxdh gLrkUrj r

ou vuq U/kku l hFku vSj jkT; ou fohkx] iatk ds chp , d le>ksk ij gLrk(kj fd, x, vSj 15 vSj 16 Qjoh 2010 dksokVj gfdUkV/bdkfuZ k Øfi ihl ½ftl svke rSj ij ty dth ds#i eatkuk tkrk gS l sdEi kV dsmRi knu dsfy, çkSj kSxdh jkT; ou fohkx] iatk dks gLrkUrj dh xbA bl çkSj kSxdh dk çn'kz Jh vkj-l h- u.; j] Hk-ç-l s] folk vk; q r vSj ç/kku l fpo] ou , oal; th] iatk] Jh chl h- ckyk] Hk-o-l s] ç/kku eq; ou l j {kd] iatk] Jh ftrbz 'kelz

Hk-o-l s eq; ou l j {kd ½gyl ½ iatk vSj i; kbj.kfon~ckck cychj fl g l Ppsky] iatk dh mi fLkfr eafd; k x; kA

fdl kuka ds fy, tD dEi kV , oa [knka dk mi; kx djds vSj ee l DVe] jkotsYQ; k l i BVk buk vSj , Lijxl jS hekl l dh [krh rdudka dks fodfl r fd; k x; kA

, d f'k; k eUt; e vkWfjr df'k okfudh ç.kkyh fodfl r dh xbZ vSj rfeyukMq ds fdl kuka ea gLrkUrj r fd; kA

yks; k , oaeQyh tS h df'k Ql ykads l kFk dSofkjuk] l kxk] egksuh] ehfy; k vSj esyk buk dh o{k Ql yk dk mi; kx djds df'k okfudh ç.kkfy; ka fodfl r dh xbA

'kqd Hke df'k ds fy, jki .k çkSj kSxf; ka fodfl r dh xbA

i kase; kj uhe] , xy] , yUFkl , DI Yl kj ehfy; k Mfic; kj esykbuk vkckjh; kj FkhLi hf l ; k i klyuh; kj ekj l , Yck] ckEcDI l hck vSj MScftZ k fl LI w tS h nskt o{k çtkr; ka ds egRo iwZ i kSk'kkyk , oajki .k uk'kht hokadsçU/k dsfy , , dhdr fof/k; ka ij fodfl r i) fr; ka ds i s t dk fdl kuka vSj ou fohkx dèpkj; ka ds l e{k çn'kz fd; k x; kA

dk"B fokku , oachkSj kSxdh l hFku] carykS us eS l Z dkd.k LiSl fyVh i klyhçk/DVt] earykS dks **ckd i j r Fkelyk l VDI dEi k tV^ ij çkSj kSxdh dk gLrkUrj .k fd; kA

m". kdfVcU/kh; ou vuq U/kku l hFku] tcyig us l hFku ea l fnl Ecj 2009 dks tcyig ftys dspkj xlpka; Fk& i Mkfj; kj [kekj; kj uhe [kMk vSj l kyhokMk xkads 50 fdl kuka dsfy, ou l w/kz vSk/kh; ç.kkyh ij çkSj kSxdh dk gLrkUrj .k djus grq , d fnol h; çn'kz dk; Dè dk vk; kst u fd; kA



o'kZ ou vuq U'kku l b'Fku] t'kjgkV us'cn'kZu xkp ea'fuEu c'kS' k'sxf'd; ka'dk g'LR'k'j .k fd; k%

- i Vpkyh i k'sk' kkykvka dh LFkki uk
0; ki'kj'd [k'rh dh vko'; dr'kvka dks i'j'k d'jus g'rq xkp ea nks i Vpkyh i k'sk' kkykvka dh LFkki uk dh xbA
- cka mi pkj V'ka dh LFkki uk
nks cka mi pkj V'ka dh LFkki uk d'j'ds pkyw'fd; k x; ka o'kZ ou vuq U'kku l b'Fku }k'j'k fod'f' r rduhdka ds l k'f'k cka ukyka dks mi p'k'f' r fd; k tk j'g'k g'ka mi p'k'f' r cka ka'dk c'n'kZu fd' l kuka ds fy,]



cka mi pkj V'ka

mudsvkoki v'k'j' v'kg'k'r'sdh ckm'f'U'V', ka'ds p'k'j'ka v'k'j' ckm'+ds# i eami; kx d'j'd'j' c'g'q' m'RI k'g'tud i k; k x; ka

- cka i k'sk' kkyk dh LFkki uk
{k' = ea'v'f'k'd'j' .ka'ds fy, j'k'i .k LV'k'k'i dh LoLFk , oa fo'ol uh; x'q'ko'U'k dh m'P'p ek'x d'ks i'j'k d'jus dh v'k' k'k' ds l k'f'k nks cka i k'sk' kkykvka dh LFkki uk dh xbA



cka i k'sk' kkyk

- ofe'Z'EI k'LV b'dkb; ka dh LFkki uk
d'j' 21 ofe'Z'EI k'LV b'dkb; ka dh LFkki uk d'j'ds pkyw'fd; ka x'keh .ka d'ks rduhdh #i l s l {k'e cuk; k x; k'j' r'k'f'd os Lo; a gh ofe'Z'EI k'LV dk m'RI k'nu d'j' l d'ka dk; D'e ds dk; k'zo; u ea l gh'k'xh , c'k'p ds Q'yLo#i i ; k'z' r ek=k eam'RI k'nu y'k'x' r ?k'v'h v'k'j' b'l s c'g'j' x'q'k'ork dk ofe'Z'EI k'LV c'k'lr g'q'ka



,d ofe'Z'EI k'LV b'dkb'z



,d fu'Eu y'k'x' ofe'Z'EI k'LV b'dkb'z

- fu'Eu y'k'x' ofe'Z'EI k'LV b'dkb'z dh LFkki uk
x'kp ea'chl fu'Eu y'k'x' ofe'Z'EI k'LV b'dkb; ka dh LFkki uk dh xbA
- d'f'k' ok'fudh i) fr; ka'dk ekud'h'd'j' .k
, d'f'k'; k e'f'f't; e ds rhu ek'g ds cky o'f'k'ka ds l k'f'k c'hp dh Q'l y' y'x'k'd'j' i Vpkyh ds d'f'k' ok'fudh i j'h'k'k dh LFkki uk dh xbA nks uka i kn i ka'dk c'n'kZu fd' l kuka v'k'j' 'k'k'k'k'f'k'z; ka ea c'g'q' v'f'k'd' m'RI k'g'tud i k; k x; k g'ka



- 0; ki kfj d #i I segROI w kZ ç t kfr; ka dh ço/kZu , oaxq ku rduhdka
o"kkZou vuq U/kku I ÆFku ifj I j ea, d vk/kfud i kSk' kkyk dh LFki uk dh xbz r kfd xkp ea LFki r i kSk' kkyk vka ea çfr dfr; ka ds i kSk. k ds I kFk fofHku ç t kfr; ka dh i kSk' kkyk rduhdka ij çn' kZu , oa I ghkxh vuq U/kku dks I j y cuk; k tk I dA



0; ki kfj d : i I segROI w kZ i t kfr; ka dh i o/kZu , oaxq ku rduhdka dk i n' kZu

NÜkka ½ chgkbo ½ dk forj . k

dk s yk 0; ol k; ea yxs ifjokj ka dh vfrfj Dr vk; mi yç/k dj kus ds vk/kj Hkar mnas; ds I kFk mUga i) fr dk mi ; Dr ç' k{k.k , oa çn' kZu ns ds dckn dgy 56 NÜkka dk forj . k fd; k x; kA

j s [kd , oa x s & j s [kd ç f Ø; kvka dk mi ; k s dj ds j k i . k vk; qv s o { k k B prk ? k j k ds fo #) ' k q d ou vuq U/kku I ÆFku] t k s k i g } k j k b a n j k x k / k h u g j i f j ; k s t u k d s I k F k ; w d f y / V I j k i . k e a I k y k u k [k j i r o k j m R i k n u d s e k M Y M f d ; k x ; k v s [k j i r o k j m R i k n u d s v k d y u d s f y , I o k B k e e k M y k a d k f o d k l f d ; k x ; k A

fofHku ço.k vk/kfjr o"kkZ ty I p; u I j p u k v k a , o a o { k j k i . k d k v u o p h y u , o a e w ; k a d u d j d s v j k o y h d h f u e u h d r i g k f M + k a d k I d k j d j u s d s f y , e n k , o a t y I j { k . k ç s k s x d h d k f o d k l f d ; k x ; k A

fgeky; u ou vuq U/kku I ÆFku] f'keyk us j k T ; ou f o H k x d s { k s = d e p k f j ; k p f d I k u k a , o a v l ;

i . k / k f j ; k a d s i g y s l s e k u d h d r ç k s k s x f d ; k a d s I a U / k e a f o f H k u ç f ' k { k . k f n , x , A

4-3 vuq U/kku çdk' ku

Hkjr h; okfudh vuq U/kku , oaf' k { k i f j ' k n - e a ' k s k f F i z , k a u s f o n s k h i f = d k v k a e a 7 8 ' k s k y s k a l f g r f o f H k u ç f r f ' B r i f = d k v k a e a 3 0 5 ' k s k i = ç d k f ' k r f d , g A f o f H k u I a k s B h I f e u k j k a v k f n d h d k ; b k f g ; k a e a 1 9 2 ' k s k i = ç d k f ' k r f d , x , A t c f d 8 0 I s v f / k d ' k s k y s k i q r d k a i f l r d k v k a e a c k ' k y / I z v k s f d r k c k a e a v / ; k ; k a d s # i e a ç d k f ' k r g q g A

dod x s k M e k z o h c h f j , u e d s n k s v k b l k s y s / k a d s b U V j u y V R U I Ø k b O M L i d j d s t h u d k s u s k u y I b v j O k j / c k ; k s / D u k s / k h h b U O k j e s k u ¼ u - l h - c h - v k b z / ; w , l - , - } k j k , D I d u u e c j v k a e V r f d , x , A

dod x s k M e k z y f i M e d s I s k f y l v k b l k s y s / k a d s b U V j u y V R U I Ø k b O M L i d j d s t h u k a d k s , u - l h - c h - v k b z / ; w , l - , - } k j k , D I d u u e c j v k a e V r f d ; k x ; k A

4-4 vk; k f t r I feukj @ I a k s ' B h @ I E e y u @ d k ; I k k y k

I feukj

ou vku p f i ' k d , o a o { k ç t u u I ÆFku] d k s E c V i j] r f e y u k M q o u f o H k x v s r f e y u k M q j k T ; ; k s t u k v k ; k s u s l a Dr # i I s 6 v x L r 2 0 0 9 d k s p l u b z e a * r f e y u k M q e a t y o k ; q i f j o r z u U ; w h d j . k e a d k c z u ç c l / k , o a o u h d j . k d h H k f e d k ^ i j , d I f e u k j d k v k ; k s t u f d ; k A

ou vku p f i ' k d h , o a o { k ç t u u I ÆFku] d k s E c V i j u s 0 4 f l r e c j 2 0 0 9 d k s I ÆFku e a * I j { k . k j u o h u h d j . k j I j { k k } ç c l / k v s 0 ; k i k j h d j . k d h f n ' k k e a v k b z i h i h i h o h , o a , Q - v k j - v s t f o d h ; f o f o / k r k v f / k r u ; e ^ i j I f e u k j d k v k ; k s t u f d ; k A

ou m R i k n d r k I ÆFku] j k p h u s 9 v s 1 0 e k p z 2 0 1 0 d k s j k p h e a t s , l - , Q - M h - l h , y - d s l g ; k s I s * c k l d h m R i k n d r k I o f) , o a m i ; k s x r k i f j o / k z ^ i j j k ' v h ; I f e u k j d k v k ; k s t u f d ; k A



I Eesy@l æk"bh

ou vud U/kku l ÆFku] nsjknw us 9 l s 11 uoEj 2009 rd **pkfkk jk"Vh; okfudh l Eesyu^ dk vk; kst u fd; kA l Eesyu dk mn?kkVu Jh gjcd diij] ekuuh; Lihdj] mÙkj[k.M] fo/kku l Hkk usfd; kA l Eesyu eafofHku 'kdk l ÆFkuka l s' kskkFkZ, oa oSkfudh jkT; ou foHkkxka l s ou vf/kdkfj; k; vud U/kku l ÆFkuka vksj 'kdk l ÆFkuka l sfo | kFkZ; kaus l fØ; #i l shkkx fy; kA

ou mRikndrk l ÆFku ifj l j eae/kokbz' ; ke 'kdk l VLV] jkph ds rRoko/kku ea vk; kstr 20 l s 22 uoEj 2009 rd **isk.kh; vktHfodk ds fy, tB&lEink çclV** ij f}rh; vUrkZVh; l Eesyu l Eilu gpkA

ou vud U/kku l ÆFku] nsjknw us 9 l s 13 uoEj 2009 rd **cgmnas kh; okfudh^ ij vUrkZVh; l æk"bh dk vk; kst u fd; kA

dk; Zkkyk, a

ou vud U/kku l ÆFku] nsjknw us 22 vksj 23 vçsY 2009 dks **isk.kh; ou çclV ij vuqph[k.k eW; kadu ,oafjikSVk ds dk; kBo; u dsfy, l ÆFkxr {kerk vksj i.k/kkj l k>nkjh dks l 'kDr cukuk** 'kkrkd dsrgr nksfnol h; dk; Zkkyk dk vk; kst u fd; kA ; g dk; Zkkyk Hkkjr ea isk.kh; ou çclV ij vuqph[k.k eW; kadu vksj fjikSVk dks l 'kDr cukusij l a q r jk"V" ds [kk] ,oa d f k l æBu çk; kstr dk; Øe dsrgr vk; kstr dh xba

Hkkjr; okfudh vud U/kku ,oaf'k{k ifj"kn-us dks ys'ku QkV jwQkV u s'ku l ¼ h, Q-vkj-, u-½ ds l g; kx l s ou vud U/kku l ÆFku] nsjknw ea 27 l s 29 vçsY 2009 rd **jk"Vh; ou l phdj.k% ukMl ,uDI 1 ns'kadk vutko^ ij vUrkZVh; dk; Zkkyk dk vk; kst u fd; kA dk; Zkkyk dk vk/kkjHkr mnas ; fuozhdj.k ,oaou fuEuhdj.k l smRI tZu de djus l æB/kr fo"k; ka ij ppkZ djuk Fkka vflre fnu çfruf/k; kausçLrkfor fd; k fd ifj"kn-eaSkfudka dks

çf'k{kr djus dh {kerk gS rkd fuozhdj.k ,oa fuEuhdj.k l smRI tZk dks?kVkus dksbl çkSj ksdh ea viwkZ ns'ka eafu; f-r fd; k tk l dA 34 fodkl 'kny ns'ka vksj 6 vUrkZVh; l æBuka tS s fo'o cBd] ,Q-, -vksj th-Vh-tM-] tsvkbZl h,- l s djhc 80 çfruf/k; kausdk; Zkkyk eaHkkx fy; kA

ou vud U/kku l ÆFku] nsjknw us, l kS l , 'ku vKd ; fuofl Vht dsl g; kx l s22 l s24 fl rEj 2009 rd mÙkj {k= dyifr l Eesyu vk; kstr fd; kA l Eesyu dk eq; fo"k; oLrq**i; kbj.kh; f'k{k %mPp f'k{k ds l e{k eqns vksj pqlsr; kA Fkka l Eesyu ea fgeky çns'k] mÙkj çns'k] iatkc] gfj; k.kk] mÙkj[k.M] p.Mhx<+vksj tEew ,oa d'ehj jkT; ka ds dyifr; ka us Hkkx fy; kA l Eesyu dk mn?kkVu MKW jeSk ikS[kfj; ky fu'kad] ekuuh; eq; eah] mÙkj[k.M }kj fd; k x; kA

ou vud U/kku l ÆFku] nsjknw vksj fglh foKku l fgr; ifj"kn- Hkkk iek.kq vud U/kku dshz eiqbz us 4 vksj 5 uoEj 2009 dks **igMh {k=ka ea vksj ksd fodkl ,oi; kbj.kh; l j{k.k^ ij fglh ea nksfnol h; oSkfud l feukj dk vk; kst u fd; kA

l keftd okfudh ,oa ikf&iqlFkka uk dshz bykgkckn] ou vud U/kku l ÆFku] nsjknw dsrgr , d vud U/kku dshz us 6 vksj 7 vDVvçj 2009 dks **fuEuhdr Hkhe; ka dk l qkj^ ij jk"Vh; dk; Zkkyk dk vk; kst u fd; kA

ou vkuqf'kdh ,oa ,oa o{k çtuu l ÆFku] dks EcVij us 23 viçsY 2009 dks **ou vkuqf'kdh ,oa o{k iztuu l ÆFku l ægky; vkqMk vk/kkj dk in'kZu ,oa l k uk^ ij , d fnol h; dk; Zkkyk dk vk; kst u fd; kA

ou vkuqf'kdh ,oa ,oa o{k çtuu l ÆFku] dks EcVij us l ÆFku dh u; h vud U/kku ifj; kst ukvka ,oadk; Øekadks l kFkfedrkd vksj väre : i ns'gsrq vius l Hk i.k/kfj; ka ds l kFk 19 tw 2009 dks , d ikjLi fjd cBd dk vk; kst u fd; kA



ou vkuṣā'kdh ,oa ,oa o{k çtuu I ðFku] dks EcVij us24 t'ykZ2009 dksrfeyukMqjKT; efgyk vk; lsk dsl kfk ** i ; kZj .k I g {kk eaefgykvkadH Hkfedk^ ij dk; Zkkyk dk vk; kst u fd ; kA



Jherh jkekFky] v/; {k] rfeyukMqjKT; efgyk vk; lsk ou vkuṣā'kdh ,oa o{k ituu I ðFku ea vuq U'ku ds nks n'kd ij , d i'rd dk foekpu djrsgq

ou vkuṣā'kdh ,oa o{k çtuu I ðFku] dks EcVij usd'jy ou vuq U'ku I ðFku] i hph ea3 vls 4 uoEcj 2009 dks d'jy ou foHkx ,oa d'jy ou vuq U'ku I ðFku dsl g; lsk I sdf'k esyk ds, d Hkx ds #i ea**o{k QI ykadH [krh vls çcu/k ij dk; Zkkyk dk vk; kst u fd ; kA

ou vkuṣā'kdh ,oa o{k çtuu I ðFku] dks EcVij us rfeyukMq ou çHkx ds I ; lsk I s 6 vxLr 2009 dks p'ubz ea **rfeyukMq ea tyok; q ifjorZu U; whdj .k ea dkcZu çcu/k vls ouhdj .k dh Hkfedk^ ij , d I feukj dk vk; kst u fd ; kA

ou vkuṣā'kdh ,oa o{k çtuu I ðFku] dks EcVij us10 Qjoh 2010 dks**rst of) okyh nskt o{k çtkfr; k^ ij vls 11 Qjoh 2010 dks**rst of) okyh OkbykMuI , dsk; k dsl dkj^ ij , d vf[ky Hkkrh; I eflor ifj; kst ukvka dks I #c) djus gsrq jk'vh; dk; Zkkyk dk vk; kst u fd ; k x ; kA

ou vkuṣā'kdh ,oa o{k çtuu I ðFku] dks EcVij us18 vls 19 Qjoh 2010 dks o{k mRi knd esysds, d Hkx ds #i ea**kqd Hkfe d'k dsfy, jksi .k çks ksf d; k^ ij dk; Zkkyk dk vk; kst u fd ; kA

dk'B foKku ,oa çks ksf dh I ðFku] caryks us 15 vçy 2009 dks dk'B m | lsk cBd] 2009 dk vk; kst u fd ; kA cBd ea40 I ghkfx; kausHkx fy; kA

dk'B foKku ,oa çks ksf dh I ðFku] caryks us 27 ebZ 2009 dks i .k/kjh I Ei dZ cBd dk vk; kst u fd ; kA Jh ch-ds fl g] Hk-ok-I s vfrfjDr ç/kku eq; ou I j {kd %oZMcy; wi h-vkj- o Vh-½ed; vfrfFk FkA cBd ea ou foHkx ds vf/kdkfj; k^ dk'B m | lskafd I kulj jksi .k dEifu; kadksfeykdj 58 I ghkfx; kausHkx fy; kA

dk'B foKku ,oa çks ksf dh I ðFku] caryks us 17 I s21 vxLr 2009 **tyok; qifjorZu U; whdj .k ij fo'kks /; ku nsus dsl kfk dk'B mRi knu ,oami ; lsk ea mlufR; k^ ij Hk-o-I s vf/kdkfj; ka ds fy, vfuok; Z çf'k{k.k dk; D'e dk vk; kst u fd ; kA dk; D'e eady 14 I ghkfx; kausHkx fy; kA

dk'B foKku ,oa çks ksf dh I ðFku] caryks us 19 uoEcj 2009 dks **dk'B foKku ea mlufR; ka vls okfudh ea vk/kqud çks ksf d; ka dk mi ; lsk^ ij , d fnol h; Hkkrh; & bVky; u I feukj dk vk; kst u fd ; k x ; kA I feukj ea ckgj I s d'jy 32 çfruf/k; ka us vls 25 I ðFku çfruf/k; ka us Hkx fy; kA I feukj dk mn?kV u Jh , I - ukxjktk] ç/kku eq; ou I j {kd] dukZ/d ou foHkx us fd ; kA MKW fyfM;] oKkfud dkmU yj] bEcd h vKd bVyh] Jh vkZch- JhokLro] ç/kku eq; ou I j {kd %oZMcy; wi h-vkj- o Vh-½ Jh I h, I - onkur] ç/kku eq; ou I j {kd ,oa çcu/k funskd] d'jy ou fodkl fuxe] Jh , I - I h- tkskh] funskd dk'B foKku ,oa çks ksf dh I ðFku eq; vfrfFk FkA I feukj eady 7 'kksi = çLrq fd , x, A

dk'B foKku ,oa çks ksf dh I ðFku] caryks us 9 fnl Ecj 2009 dks ifj'kn- ds xgu fopkj & fo'e'kZ I = dk vk; kst u fd ; kA I = dh v/; {krk MKW ih-ts fnyhi d'kj egkfunskd %ou½ i ; kZj .k ,oa ou ea-ky; }kj dh xbA MKW ih-ch- xaksk /; k; , -Mh-th- ¼ ; kZj .k ,oa ou½ MKW th, I - jkor] egkfunskd] Hk-ok-v-f'k-i- vls funskd] dk'B foKku ,oa çks ksf dh I ðFku usxgu fopkj & fo'e'kZ I = edHkx fy; kA

ou vuq U'ku d'bz gñjckn us2009&2010 ds fy, 'kks çLrkoka dks v'ure #i nsus vls d'bz dh vuq U'ku vko'; drkva ds çkFkedhdj .k ds fy, 24 t'w 2009 dks , d fnol h; i .k/kfj; kadH cBd dk vk; kst u fd ; kA



m".kdfVcU/kh; ou vud U/kku l h.Fkku] tcyig usfNnokMk ftysdsikjEifjd jkskjg ,oaos kadsfy, 30 tw 2009 dks **ikrkydk/ ds vksk/kh; iknika dk ikjEifjd Kku^ ij , d fnol h; dk; Zkkyk dk vk; kst u fd; kA

m".kdfVcU/kh; ou vud U/kku l h.Fkku] tcyig us 12 vDVncj 2009 dks vkbZ/vkbZ, Q-, e-] Hkky us 29 vxLr 2009 dks **i ksk.kh; xS cdk"B ou mit cCU/k dsfy, eki n.M ,oafunskdkadsfodkl ij , d fnol h; ijke'kZ dk; Zkkyk dk vk; kst u fd; kA

'kqd ou vud U/kku l h.Fkku] tskij vS Hkkyrh; ou cCU/k l h.Fkku] Hkky us 29 vxLr 2009 dks **i ksk.kh; xS cdk"B ou mit cCU/k dsfy, eki n.M ,oa funskdkadk fodkl ^ ij l a Dr #i l s, d fnol h; ijke'kZ dk; Zkkyk dk vk; kst u fd; kA dk; Zkkyk dk ed; mnas; 'kqd ,oa #k xS cdk"B ou mit cCU/k; ka ,oamudh ikjflLFkrdh; c.kfy; ka ij dk; Z djusokysfofHku , tSul ; k l h.Fkku, oai .k/kfj; ka dks tkM us gsrq, d ep miyC/k djuk vS eki n.M ,oa funskdkadsfodkl l sl afU/kr vutkoka, oat kudkj dh vki l ea cku/k gA cBd dh v/; {krk ed; vfrfFk Jh , -ds fl aj] cU/k ed; ou l j {kd] cCU/k funskd] l h-th, e-, Q-i- QMj'sku] jk; ij] Nukh x<+dh vS fof'k'V vfrfFk MKWjke c l kn] l pkyu l febr ds v/; {k vS i mZcU/k ed; ou l j {kd] e/; i nsk FkA

'kqd ou vud U/kku l h.Fkku] tskij us 16 uoEj 2009 dks [khtjh v'ckd kfi l fl ujsj; R/zeR; Zk ij , d fnol h; xgu fopkj&foe'kZ dk; Zkkyk dk vk; kst u fd; kA MKW, -, l -Qjknk] i mZdyifr egkjk.k crki d'k ,oa rdudh fo'ofok |ky;] mn; ij us , d fnol h; dk; Zkkyk dh v/; {krk dhA dk; Zkkyk ea, -, Q-vkj-vkbZ] l h-, -tM-vkj-vkbZ] tskij] d'k vud U/kku l v'sku] eml kS] Qrgij ,oa tkyS] tM-, l -vkbZ] tskij] Hkky cM] tskij tS oSkfud l h.Fkku l s oSkfudka@vf/kdfj; k ou foHkx] tskij vS cxf'r'khy fd l kul fl dj] ukxS ,oa cM'ej us Hkx fy; kA bl dk; Zkkyk l s cklr vutko ds vk/kj ij jktLFku ea [khtjh ER; Zk dh l eL; k dk l ek/kku d'us ds fy, , dhdr , ckr ij , d l eflor vud U/kku ij; kst uk rS kj dh xB

fgeky; u ou vud U/kku l h.Fkku] f'keyk us 29 tw 2009 dks jkT; ou vud U/kku l h.Fkku] t'kui g] tEew ea tEew o d'ehj jkT; ds fy, vud U/kku vko'; drkvkadh igpku , oackFfedhdj.k dsfy, , d i.k/kkj dh dk; Zkkyk dk vk; kst u fd; k x; kA bl dk; Zkkyk ea ou vf/kdfj; k c'nik.k fu; a.k ckM l s vf/kdkjh fo'ofok |ky; kadscQd jkavS tEew o d'ehj jkT; ds i .k/kfj; ka us Hkx fy; kA bl dk; Zkkyk dh v/; {krk Jh , l - pax] Hk-o-l s] ou l j {kd v'ud U/kku} tEew o d'ehj }kj dh xB



tEew o d'ehj jkT; ea vud U/kku vko'; drkvkadh igpku , oai kFfedhdj.k dsfy, jko-v-l a tEew ea i .k/kfj; ka dh cBd

fgeky; u ou vud U/kku l h.Fkku] f'keyk us 18 vS 19 ekpZ 2010 dks **mukj if'pe fgeky; ka ea vksk/kh; ikni {ks- dh of) ds fy, pqlsr; ka ,oa l p'ol j ij dk; Zkkyk** dk vk; kst u fd; kA dk; Zkkyk ea 62 c'rfuf/k; kausHkx fy; kA

fgeky; u ou vud U/kku l h.Fkku] f'keyk us fnukad 10 fl rEj 2009 dks **fi Okj kb tk dij k k vS osyhfj; kuk tVkekd hij us'odZifj; kst uk^ ij , d fnol h; dk; Zkkyk dk vk; kst u fd; kA dk; Zkkyk dsnk] ku l ghkxh l h.Fkku}kj i fj; kst uk dk; Zdyki ka dsdk; kzo; u l sl afU/kr i mZefad, x, dk; ZvS Hkx j .kulfr; kadsc; kSsdksLr q fd; k vS p'pZdh xB



fgeky; u ou vuq U/kku I hFkku] f'keyk us{ks-
vuq U/kku dlnj V6ks ¼ y- o , l-½ fgekpy çnsk ea
25 fl recj 2009 dks**khr jfxLrkukadh dñ egRo iwz
çtkfr; ka ds ikjflFkfrdh; , oa l kelftd&vkfKzd
egRo^ 'khrkd l s , d fnol h; ikjLifjd fØ; k
dk; Zkkyk , oaf'k{k.k dk; Døe dk vk; kst u fd; kA

fgeky; u ou vuq U/kku I hFkku] f'keyk us
fNVdny] fdllukj ftysea5 uoEcj 2009 dks**fdllukj
fkyk fgekpy çnsk dstaxyh [kk] , oavksv/kh; ikni^
ij , d fnol h; ikjLifjd fØ; k dk; Zkkyk , oaf'k{k.k
dk vk; kst u fd; kA dk; Zkkyk ead jhc 65 xkeh. kñ {ks-
depkfj; ka, oavU; i .k/kfj; ; kausHkx fy; kA

ou mRikndrk I hFkku] jkph us çxfr'kny
fd l kulj jkT; ou foHkx , oaxj I jdkjh l xBukads{ks-
dk; Zrkv/kavkjs ch, -; wo Mhoh-l h dsfo'kskKka, oavU;
dkfeZkads l g; ks l s30 tu 2009 dkstkh vuq U/kku
ifj; kst uk ds rgr *ncoxLr LFky dk l dkj^ ij
dk; Zkkyk dk vk; kst u fd; kA

ou mRikndrk I hFkku] jkph usou vuq U/kku
dlnz enkj] jkph >kj [k.M ea 8 fl recj 2009 dks
ofeZEkV ij dk; Zkkyk dk vk; kst u fd; kA

ou mRikndrk I hFkku] jkph ea16 tuojh 2010
dks >kj [k.M jkT; ea **l emk; vk/kfjr çkdfrd
l d kku çcU/k ds }kjk t6fofo/krk l j{k.k^ ij Hkjr
l jdkj & l a Ør jkV^a fodkl dk; Døe l h-l h, Q-&II,
ifj; kst uk ds çxfr dh i qjh{k.k , oavuoh{k.k dsfy,
xfBr jkT; Lrjh vuoh{k.k l febr dh nñ jh cBd
l Eilu gPz



Jh , l - ds 'kel' Hko-l s] eñ; ou l j{kcd }oU; tho}z
>kj [k.M l jdkj dh v/; {krk ea, l -, y-, e-l h
dh nñ jh cBd

ou mRikndrk I hFkku] jkph us 28 tuojh
2010 dks jkph ea l emk; vk/kfjr çkdfrd l d kku
çcU/k ds }kjk t6fofo/krk l j{k.k^ ij th-vksvkbZ&
; w, u-Mh-l h-& l h-l h, Q-&II ifj; kst uk dsdk; kZk; u ds
l elo; u ds fy, xfBr] vf/kdkj çkr ifj; kst uk
l pkyu l febr dh pkskh cBd dk vk; kst u fd; kA
cBd dh v/; {krk Jh ge ik.Mj l a Ør l fpo] Hkjr
l jdkj] i ; kbj.k , oaou ea-ky;] ubzfnYyh }kjk dh
xbz vls blea Jh vkj- d". kkefir] funskd] ou
mRikndrk I hFkku vls Jh jkeoj nkl] ou l j{kcd]
ou mRikndrk I hFkku jkph us Hkx fy; kA v# .kkpy]
mMh kj >kj [k.M vls NUKh x<+jT; eadk; kZur fd,
tk jgs bdkbdkj ifj; kst uk dk; Z dh Hkfrd , oa
foHk; çxfr dk i qjh{k.k l pkyu l febr us fd; kA
29 tuojh 2010 dks >kj [k.M jkT; ¼kpo % tkueijh]
ckjh vls dk/vuk½ dsrgr [kwh ifj; kst uk LFky ea{ks-
Hke.k Hkhd; k x; kA

ou mRikndrk I hFkku] jkph us 26 vls
27 Qojh 2010 dks >kj [k.M eadlnwi Ukh mRi knu dk
vkdyu^ 'khrkd l s ijke'kz ifj; kst uk ds rgr nks



**>kj [k.M eadlnwi Yh dk vkdyu^ ifj; kst uk
dsrgr if'k{k.k dk; Zkkyk

fnol h; çjEHk ç'k{k.k dk; Zkkyk dk vk; kst u fd; k
ft l ea ts, l -, Q-Mh-l h, y- , oaou mRikndrk I hFkku
jkph ds 85 vf/kdfj; k@ dkfeZkousHkx fy; kA

4-5 ijke'khz

foLrkj funs kky; ds rgr i ; kbj . kh;
çHkko eW; kadu çHkx

Hkjr h; okfudh vuq U/kku , oaf'k{k.k ifj'kn-ds
v/khu ; g çHkko tyfo [q] [kuu] vol jpkuk vkrn tS s



fofHku l DVjka ea i ; kbj.kh; çHko eW; kaðu v/ ; ; u
djrK gA ; g fodkl kRed ifj; kst ukvka ds çfrdny
i ; kbj.kh; çHkokadsU; whdj.k dsfy, i ; kbj.kh; çCU/k
; kst uk Hk r\$ kj djrk gA

bl çHkx dh LFkki uk ifj'kn-eç; ky; ea2003
ea dh xbz gsvk\$ o'kka l sbl us dk; Zea ifj i Dork , oa



'kq dh xbz i ifj; kst ukvka dk o'kka i ifj0 ;

fo'kskKrk gkfl y dj yh gA gky gh ea i ; kbj.kh; çHko
eW; kaðu v/ ; ; ukadsdjsdsfy, {ks= vk/kfjr fodkl
, t\$U l ; kads l kfk vlrjki "B mi yC/k djkusgrqnsk ds
fofHku Hkxka ea l fkr ifj'kn-ds l Hk vkB l fHkuka ea
i ; kbj.kh; çHko eW; kaðu çdksB Hk LFkfr fd, x,
gA i ; kbj.kh; çHko eW; kaðu çHkx ifj'kn-ds l fHkuka
ea i ; kbj.kh; çHko eW; kaðu çdksB ds l kfk l elo;
djrK gsvk\$ fofHku fodkl kRed ifj; kst ukvka dsfy,
i ; kbj.kh; çHko eW; kaðu , oai ; kbj.kh; çCU/k ; kst uk
dks r\$ kj djus dsfy, ifj; kst uk ?KVdka ds l kfk Hk
l g; kx djrk gA ekpZ2010 rd ~ 1440-10 yk[k dher
dh 35 i ; kbj.kh; çHko eW; kaðu@i ; kbj.kh; çCU/k
; kst uk v/ ; ; u fd, A

i ; kbj.kh; çHko eW; kaðu çHkx usvuska'kr'Z
, oa LFkfr ifj; kst uk ?KVdka dks viuh l ok, anh g\$
ftuea'kfeY gSftnsy l kmFk o.V xii vkD dEiuhT]



vayk [kuu ifj; kst uk] >kj [k.M
dh ykd l qokbz

fjy; d bAM; k fyfeVM] fl xst t dky/hjht] dEi uh
fyfeVM] Vgjh ty fodkl fuxe- fy-] ubZfnYyh] uxj
ifj'kn- fgeky çnsk ikoj dkkj\$ku fy-] jk'Vh;
FkeZ ikoj dki\$ku] p.Mhx<+ ç'kkl u] jk'Vh;
vk\$kh; ikni cM\$ LokLF; , oai fjok dY; k.k ea-ky;]
Hkjr l jdkj NÜkh x<+jkt; fo|q cM\$ jk'Vh; ty
fo|q fuxe] vkU/k çnsk i ; V/u fodkl fuxe]
vkU/kçnsk [krut fodkl fuxe fy-] , l i kj ikoj fy-]
t; çdk'k , l k\$ l , V fy-] jk'Vh; ouhdj.k , oa
ikj&fodkl cM\$ i ; kbj.k , oaou ea-ky; A

xtgdkadH l ph l sirk pyrK gSfd l koZt fud
, oafuth nkska {ks=ka dh l fHk, a çHkx }kj k mi yC/k
djkbZ tk jgh i ; kbj.kh; ijke'kZ l okvka dk mi ; kx
dj jgh gA i ; kbj.kh; çHko eW; kaðu l æfU/kr ijke'kka
dks n\$ kus okys vf/kdkfj; ka dk ny i ; kbj.kh; çHko
eW; kaðu v/ ; ; uk ea u, ekudka dks fodf l r djusea
çedk gS vk\$ vPNh dk; Z l adfr dh LFkki uk , oa
i ; kbj.kh; Hkfo"; ok.kh djus vk\$ U; whdj.k mi k; kadk
l q-ko naseal g; kx fd; k gA

2009&2010 ds n\$ku] i ; kbj.kh; çHko
eW; kaðu çHkx us ty fo|q , oa [kuu {ks=ka ea
~ 239-13 yk[k ds 04 ijke'kZ v/ ; ; u ijjs fd, vk\$
~ 244-02 yk[k eW; ds fuEu ijke'kZ l ok, a gkfl y
dh g\$



- Vsjh ty fodkl fuxe fy- }kjk ञनुक Hkwku ea l dksk cgmnaśkh; ifj; kst uk dsfj t jok; j Hkx dk xgu i ; kōj.kh; ञHko eW; kaḁu vḁś i ; kōj.kh; ञcU/k ; kst uk v/ ; ; uA
- Vsjh ty fodkl fuxe fy- }kjk ञनुक cḁk[ḁk tyfo | ḁ ifj; kst uk 1/80 esok-1/2 Hkwku dsfy, , d eḁ e vḁMk ds fy, Roḁjr i ; kōj.kh; ञHko eW; kaḁu v/ ; ; uA



cḁk[ḁk ifj; kst uk LFky] Hkwku

- eś l Z t ś h oḁpj ञkboś/ fy- uḁ Mk }kjk ञनुक xḁj uḁ Mk l scfy; k rd xaxk , DI ḁ os ifj; kst uk ds fy, t ḁfofo/krk eW; kaḁuA
- eś l Z t ś h oḁpj ञkboś/ fy- uḁ Mk }kjk mluko ySM ikl ḁy] mḁkgkj ySM ikl ḁy ds fy, t ḁfofo/krk eW; kaḁu v/ ; ; u rś kj djuk vḁś l ḁjpukRed l ḁkj dsfy, ifV; kyh ySM ikl ḁy dk vknḁḁe v/ ; ; uA
- ty l ḁ k/ku foHkx] Xokfy; j }kjk ञनुक e/; ञḁśk dsfHk.M ft yseadujk fyḁV fl ḁkbZ; kst uk dsfy, t ḁfofo/krk ञHko eW; kaḁu v/ ; ; uA
- fgeḁpy ञḁśk ikoj dḁWḁḁśku fy- }kjk ञनुक rḁśk ikoḁh 1/400 esok-1/2 ty fo | ḁ ifj; kst uk] ftyk & yḁḁśy fl i rñ] fgeḁpy ञḁśk dsfy, i ; kōj.kh; ञHko eW; kaḁu vḁś i ; kōj.kh; ञcU/k ; kst ukA

o'kZdsnḁśku] i ; kōj.k ,oaou eḁky; usfuEu ifj; kst uk/vkaḁsi ; kōj.kh; Lohḁfr ḁḁku dñ%

- fgeḁpy ञḁśk ikoj dḁWḁḁśku fyfeVM] f'keyk ds fl jekś ftyś ea jskḁk Mke ifj; kst uk ds fy, i ; kōj.kh; ञHko eW; kaḁu ,oa i ; kōj.kh; ञcU/k ; kst ukA
- fgeḁpy ञḁśk ikoj dḁWḁḁśku fyfeVM] f'keyk ea , dhḁr dk'kax ty fo | ḁ ifj; kst uk 1/243 esok-1/2 ds fy, i ; kōj.kh; ञcU/k ; kst uk dh l ḁjpuk vḁś i ; kōj.kh; ञHko eW; kaḁu v/ ; ; uA

Hkjrh; oḁfudh vuḁ U/kku , oaf' kḁk ifj'kn-dḁś i ; kōj.kh; ञHko eW; kaḁu Vhe usfuEu ifj; kst uk/vkaḁs



dñkj , p-bḁiñ] fgeḁpy iḁśk dh yḁḁ l ḁokbZ

fy, jkT; ञḁḁk.k fu; ḁ.k cḁMZ }kjk vk; kḁtr yḁḁ l ḁokbZcḁḁkaeHk Hkx fy; k vḁś i ; kōj.kh; vuḁfr ds mnaś; dsfy, tu ḁrfuf/k; ḁ LFkkuh; xteh.kḁ rFk fl foy ḁ'kkl u }kjk mBk, x, ḁ'ukḁḁk mḁkj fn; k] ts, l-MCY; w ḁkboś/ fy- ds fy, dñkj tyfo | ḁ ifj; kst uk 1/260 esok-1/2 ḁḁḁ ftyḁ] fgeḁpy ञḁśk ds fy, bḁvkbZ, - vḁś bZ, e-iñ] ts, l-MCY; w ḁk- fy- dsfy, >kj [k.M eavḁḁy yḁś v; Ld Hk.Mkj dsfy, tyxg.k {ḁ- mi ḁkj ; kst uk] ty foKku , oatyḁ l kj.k v/ ; ; u dsl kFk bḁvkbZ, - vḁś bZ, e-iñA

ou vuḁ U/kku l ḁFkku] ngjknw us fuEu i jke' khZ l ḁk, ami yḁḁ/k djkbZ

dḁñh; yḁḁñh ,oa dḁxt vuḁ U/kku l ḁFkku] l ḁḁjuig 1/ḁḁkj ḁḁśk 1/2 dh ni oḁ, oax; kjgḁrai ḁ o'kḁ;



;kst uk dk eW; kaDuA **çkdfird jakadsmi; lsk^ ij , d
 ijke'kz ifj; kst uk ds rgr mükj[k.M [knh , oa
 xkels lsk çkMZeaçkdfird jak mi yC/k dj; kA
 ifo= çk/ko{k ds j [kj [kko , oa ifjj{k.k grq çkçkx; k
 eflnj çCU/k l fevr] çkçkx; k dsfy, A
 dEckM; k ea Hkjr; ijkrRo l oçk.k ds el; e l s
 , il kj uškuy vFkMj Vh] dEckM; k dsfy, A
 **dk"B eadod l el; k ds l æU/k ea l pük ij fo'ksk
 l ykg^ ij eš l Zv'kcd fVEcl] ; epkuxj dks ijke'kz
 l ykgA
 eš l Z eDl Lišl , fyVh çkM/DV+] eDl bM; k fy-
 jsektjk ½ksi M½ ds fy, 22 ebZ 2009 dks dk"Bh;
 xkšy; kaeçdk"B dsmi; lsk dsl æU/k eA
 eš l Zfglnhrku i š/ky; e dEiuh fy- eçbz dsfy,
 1 l s3 fnl Eçj 2009 rd dh vof/k dsnkšku dfyak
 Vkoj çdk"B mi; lsk dsl æU/k eA
 eš l Z Hkjr; i; v/u fodkl fuxe fy- çkMuošFk
 xšl ½dksQuhpj dsfy, xqkoÜkk çdk"Bkdsfujh{k.k ds
 l æU/k eajk'k - 1]65]000@&A
 ½jke'kšl sl ftr dgy jktLo % 3]71]061@&½
 xkeh.k fodkl ea-ky;] Hkjr l jdkj }kj; w, u-Mh-i-
 }kj fu/kf; r egkRek xk/kh jk'Vh; xkeh.k jkst xkj xkjv/h
 vf/kfu; e dsrgr mükj[k.M eaokfudh l æU/kr dk; ka
 dsfy, ou dk; Zfu; ekoyh , oanjkadh l kj .kh rš kj
 djusdsfy, A
 fnYyh eagkusokysvxxkeh dkeuošFk xšl dsfy, rhu
 yk[k xeys ds i škka dks yxkus , oa vki firZ grq fnYyh
 l jdkj dsfy, A
 ; epk fdukš fnYyh ea çka okfVdk dh LFkki uk grq
 fnYyh l jdkj dsfy, A
 jskçk Mke ifj; kst uk] fg-ç- ds l kekt d&vkfkd
 vk/kj j[kk l oçk.k , oaçHko eW; kaDu grqgekpy çnš k
 i koj dMkj šku dsfy, A

ou vkupf'kdh , oa oçk çtuu
 l æFkku] dks EcVij useš y ij feyl HknjkoFk]
 dukWd dsfy, **; wšfyVI vš , dš'k; k l djkadh
 Mh, u-, - çkQkbfya^ ij ijke'kz ifj; kst uk ij dhA
 dk"B foKku , oa çkš| fxdh l æFkku]
 çxykš usfuEu ijke'kz mi yC/k dj, k
 eš l Z ts, l -Mç; wfyfeVM] >kj [k.M ds i{k ea ykš
 v; Ld Hk.Mkj grqdloš j çV dšjMš dsfy, ou
 Hke #i kUr.j.k ds fy, bZvkz, -@bZ, e-i- h- ds rš kj
 djuka
 eš l Z Vgjh tyfo|r fodkl fuxe fy- ds i{k
 eal dšk çgnnš kh; gkbMš ifj; kst uk dk bZvkz, -@
 bZ, e-i- h- v/; ; uA
 tyfo|r ifj; kst uk] Hwku dk Hwuk[kk bZvkz, - vš
 bZ, e-i- h- v/; ; ukadh Mh-i-h-vkj- dk v | ruA
 , l l kj ikoj >kj [k.M dh pdyk dks yk [kku
 vš eš l Z, l l kj ikoj >kj [k.M fyfeVM }kj 2000 esok-
 fiV gM Fkeš ikoj LVšku ds fy, tšfofo/krk
 eW; kaDuA
 eš l Z ts h obpj çkboš/ fyfeVM] ukš Mk dsi {k ea xšj
 ukš Mk l s çy; k rd xak , Dl çš os ds fy,
 tšfofo/krk eW; kaDu fji kš/A
 NÜkh x<+ jkT; fo|r çkM] NÜkh x<+ ds
 i {k eackš?kkV tyfo|r ifj; kst uk dsfy, bZvkz, -@
 bZ, e-i- h- v/; ; uA
 Qal ifjj{k.k ds l æU/k ea çšw i šl] çxykš dks
 l ykgdj ijke'ka
 ou vuç U/kku dšnj gšjkckn us fuEu
 ijke'kz mi yC/k dj; k
 uln; ky ou fodkl , tšl h vš vVekdj ou fodkl
 , tšl h }kj dk; Zbor jk'Vh; ouhdj.k dk; Zde ds
 eW; kaDu grqvk/kçnš ou foHkx dsi ijke'ka
 **[keke ea dš'k vš yçnhdk"B jki .kka l s tšek=k
 dk vkdyu^ ds fy, vkbZv-h- Hknkpye dks
 ijke'ka



m".kdfVcl/kh; ou vud U/kku l .l.Fkku] tcyig usfuEu ijke' kZmi yC/k dj; k

fjy; d l heV\$ku ck-fy- ds fy, esj 1/4 tyk&l ruk1/2 ea ouLifr , oa ckr.ktkr dk l ocr.k fd; kx; kA

m".kdfVcl/kh; ou vud U/kku l .l.Fkku] tcyig us uskuy fkeZy ikoj dKk1/2\$ku] nknjh }kjk cnuK , u-l h-i-h-i-h&nknjh dsfy, o{k vkj.k cclU/k ; kst uk vK\$ gfr vkj.k , oa cR; {k rFk vCR; {k ykHka dk eW; kadu fd; kA

'kqd ou vud U/kku l .l.Fkku] tsk'ki g

jkT; ou foHkx }kjk l gk; rk ckr ijke'khZ ifj; kst uk 'khr'kd **ekbdjkbty , oajkbtks; y l cdk dh igpk] thu cd dh LFkki uk djuk vK\$ [kr ea fdl kua ea cks ksdh glrkrj.k^ ds rgr 'kqd ou vud U/kku l .l.Fkku] tsk'ki g usjkT; ou foHkx xqjkr dkscf' k{k.k fn; kA tsmoj d c; kx'kkyk dh LFkki uk dh vK\$ tsmoj d ul ykadh igpk] xqku vK\$ i FkDdj.k dsfy, ekuo 'kdr dkscf' k{kr fd; kA

fgeky; u ou vud U/kku l .l.Fkku] f'keyk us fuEu ijke' khZ l ok, ami yC/k djkbZ

eS l Zfgeky cnsk ikj dKk1/2\$ku fy-] f'keyk dsfy, ftyk& fdluK\$ fgeky cnsk ea , dhdr dk'kka tyfo | r ifj; kst uk 1/243 esok-1/2 dsfy, i ; kbj.k cclU/k ; kst uk dksr\$ kj djusvK\$ i ; kbj.k cHko eW; kadu ij v/ ; ; uA

viLVhe iKUMk\$ Mke l s ykxhZ Mke l s ch, l -, y- l thjuxj] fgeky cnsk tyxg.k {ks- mi pkj ; kst uk r\$ kj dhA

plejk&III 1/231 esok-1/2 tyfo | r ifj; kst uk] ftyk&pEck] fgeky cnsk ds l aU/k ea i ; kbj.kh; volFkVkadfsu; ekadk vuoh{k.k fd; kA

4-6 rdudh l ok, a

ifj"kn-vius l .l.Fkku] adsek/; e l sdr'B uewkh ukf'kdhVkh jkskadh igpk vK\$ ukf'kdhVka , oajkskad\$ cclU/k ds l aU/k earduhdh l ok, ami yC/k djkrk gA

ifj"kn-vK\$ bl ds l .l.Fkku bZvkbZ, - ijke' khZ, oal aflu/kr l ok, aHh mi yC/k djkrk gA l .l.Fkku ikni inkFkZ ds vk; kr@fu; kr dsfy, ikni LoPNrk cek.ki=ka dks tkjh djsrgavK\$ dhV fu; kr dsfy, l aZjksk fj i ksZHHh nrs gA bl ds vykok] dk'B foKku , oa cks ksdh l .l.Fkku] cakvK\$ vuska 0; ki kjd mRinkha fo'kksdj plnu dk'B r\$ eafeykoV dh igpk ea rdudh l ok, ami yC/k djkrk gA ou vkuoh'kdh , oao{k ctuu l .l.Fkku] dks EcVij ; vdsyVI , oa dSokfjuk dh Dyksuh; fdLekavK\$ foHkku ouhdj.k dk; ZykikarFk ; vdsyVI xky l el; k earduhdh l ok, anrk gA ou vud U/kku l .l.Fkku] nsjknw l ckr r\$ykh [kdkcw , oa 1/2 yoj inkFkZ o{kads l j {k.k} ckdfrd jakh dKk1/2 \$ l l kbus l l ij rdudh l ok, ami yC/k djkrk gA

dk'B l akksk.k 'kk[kk ds oKkfudka ds rdudh i ; bsk.k dsrgr m-c- fu; kr fuxe fy- l gkjuig ds ifj l j ea nl rki m'er fdle vkikdka dks vk/kudhr djds LFkkr fd; kA bu vkikdka dk mi ; kx fuxe }kjk cdk'B l akksk.k dsfy, 0; ki kjd #i l sfd; k tkjgk gA

ou vud U/kku l .l.Fkku] nsjknw

l .l.Fkku us160 dk'B uewkh\$yo\$ j {k} Hkjrh; ekud C; jk\$, u-Vh-i-h-l-h l pkj] dshh ykd fueZk foHkx] iatkc ifyl vkokl fuxe] vks, u-t-h-l-h l rdZk l s Hkh HkVkpj jkskh C; jk\$ ifyl @l h-ch-vkbZ tS sfokhu l jdkjh foHkxkavK\$ futh cdk'B 0; ki kjh1/2 vK\$ vof/k dsnk\$ku `8]00]000@&1/2 xHx1/2 ckr fd, A

• l-h-l-h-Vh-Mh-, l - dh vkj-Vh-, Q-Mh-l-h-, l - QsYk' ki dsrgr Jh , e-, u-vkbZ Hkh ku] oKkfud vf/kdkjh cakvksk] oKkfud , oa vK\$ ksd ifj"kn- dks **l a/k r\$y] [kdkcw , oa 1/2 yoj inkFkZ ij rhu ek\$ 1/4 tyk&f l rEcj 20091/2 dk c' k{k.k nsj fodl 'khy l kd kbVh plubZ eafokku , oa cks ksdh ea l g; kx dsfy, rdudh l ok, ami yC/k djkbZxbA

• Mh-bZ, Q-vkj-, - ifj; kst uk dsrgr 25 tww 2009 dks **i ksk.kh; ou cclU/k ea 'kfeY {kerk fueZk



- I epk; kã ds çf'k{k.k dk; Øe ds I ghkfx; ka ea *çkdfird jakkadk i FkDdj .k^ dk çn'kãA
 - lkqyl v/kh{k d ftyk ysg ynæk[k ¼t Eewo d'ehj ½ }kjk fnl Ecj 2009 dks Hksts x, dkmhã \$l I kbusul I dsvkB uewka dh igpku dh xbA
 - phQ tñmfI ; y eftLVV] pEikor] mükjk[k.M I s çktr dkmhã \$l I kbusul I ds ,d uews dh Qjogh 2010 dksi gpku dh xbA
 - m | ks esyYad batrfu; I ½ eñcbzdsfy, dk"B uewka ¼2 uews tuojh] Qjogh vks] ekpZ2010½ eadodh fuEuhdj .k dh igpkuA
 - inkFkãdsfu; kã dh ik=rk ¼05 ekey½dsfy, ikni I j{k , oal xjksk foHkx] dfr'k foHkx] Hkjr I jdkj dsfy, A
 - funskd] I BVy I sjdYpj jhl pz , .M Vsuak buI fVV;W] Jh jkeigk esy }kjk dkmhã \$l tš sudk dk fu; kãA
 - funskd] jkVh; dfr'k #i I segRo iwz dhV C; jkš çaxykš }kjk , ukthjI ykadhj , I hjkQxl i ik; k vks] L; W/yhlVksefDI dkuk dk vk; kãA
 - funskd] dñh; dikl vuq U/kku I ÆFku ukxkš }kjk dhV] I yw/hyk tkbykã Vhyk dk vk; kãA
 - eš I Ziãkc dsedYI , .M ØKW çkãB'ku fy- eñcbz }kjk , tkflifjye çtkfr dsl o/wãdk vk; kãA
 - eš IZ uke/kjh QkQZ Ýsk çk fy-] çaxykš }kjk fppMkã, Euyhl h; I fLoI dh vks] , -dsyQksuDI dsl o/wãdk vk; kãA
 - chtke jkisk inkFkãdsfu; kã dka dks ikni LopNrk çek.ki = ¼06 çek.ki = ½ tkjh djusdsfy, A
- ou vkupf'kdh , oa o{k çtuu I ÆFku] dks, EcVij
- I ÆFku }kjk iks'kr fQpj I xgky; }kjk rfeyukMq , oadgy ou foHkx] egkfo | ky; , oaf'ofo | ky;

- fo | kFkã; 'kkkFkã, oafdl kuka dsfy, ikni igpku vks] ikni I UnFkãI ok, amiyC/k djkbzxbA
 - dgy ou fodkl fuxe] dksV/k; e dks; wfsyVI xky I eL; k dsfy, çcu/k mik; ka ij I ykgdkj I ok, amiyC/k djkbA
 - dgy ou foHkx dksI kxkã xgykch jks I eL; k ds fy, çcu/k mik; ka ij I ykgdkj I ok, amiyC/k djkbzxbA
 - I R; oM] vku/kççnsk vks] fvjdelkbyij] rfeyukMqea , d dkmã I ; wfsyVI Dykuh; jki .k dh eR; ½k ij rduhdh I ok, amiyC/k djkbzxbA
 - nf{k.k Hkjr eafofHku LFkkuaeal ÆFku }kjk LFkfr cht m | kula I s; wfsyVI , oadçokfjuk ds90 fd-xk-mlur chtkadks, d= fd; k vks] jki .k yxkusdsfy, m | kskã fdI kuka, oajkT; ou foHkxkaevki firZ dh xbA cht m | ku usLFkkuh; cht I kã dh rgyuk ea mYys[kuh; of) çn'kã dksn'kã; kã
- dk"B foKku , oa çkš] kfxdh I ÆFku] çaxykš
- o'kz ds nkšku igpku ds fy, ¼231 uewkaã 102 i ÆFku dk I ek'ku fd; kã I jdkjh foHkxka, oa ykxka I sfofHku vdk"B ou mRiknadsmi; ks ij dbZ rduhdh tkudkj dh I ek'ku fd; k vks] I ykg fn; kã
 - plnu dk"B uewka Vjkdki I ek'kfi; e I kjkavkš Vjkdki I BVfyul uewka vl; dk"B ikmMj vkn I sl xã ryaadsfo'y sk.k eaol; tho vij/k fu; ã .k C; jkš nf{k.kh {ks-} plubZ vk; Ør ¼dLve½ plubZ ou foHkx vks] ykxka dks fo'y sk.k Red I ok, anh xbA
 - i kã'kkyk vks] jki .kã ea dhV foKkuh; , oa jks foKkuh; I eL; kvkavkš I okjr çdk"B dsl æU/k ea ou foHkx deplkj; ka , oaxš I jdkjh I xBuka I s dbZ tkudkj; kaekach xbZ ftlgami; Ør I dkj kRed mik; djusdk I øko fn; k x; kã



'k'd ou vuđ U/kku l ĀFkku] tks'ki g

- cht çek.khdj.k , oai jhk.k.kA
- enk vks ty fo'yšk.kA
- i.k/kfj ; kadsfy, l ykgdkj l ok, A
- 'kgjkačksqfjr cukuk vks Hkm' ; A

4-7 jktHkk"kk dsdk; byki

Hkkjrh; okfudh vuđ U/kku , oaf'k{k ifj"kn-vks bl ds l ĀFkku jktHkk"kk ds mi ; kx dks vf/kdre çk&l kfgR djusdsnf"Vdksk dsl kFk viusnfud dk; k& ea jktHkk"kk fu; eka, oafofu; ekacsdk; k&o; u dh fn'kk ea l rr dk; j r gA ifj"kn-us26 ekpZ2010 jktHkk"kk ij



jktHkk"kk ij if'k{k.k dk; Zkkyk

, d if'k{k.k dk; Zkkyk dk vk; kst u fd; kA if'k{k.k dk; Zkkyk ea ifj"kn-eq ; ky; , oau vuđ U/kku l ĀFkku ds250 l svf/kd vf/kdfj; k& o&kfudka, oadeplfj ; kaus Hkx fy; kA dk; Zkkyk dks Jh, l -ih- pks; funskd] jktHkk"kk i ; k&j.k , oa ou ea-ky; vks Jh , e-vkj- l dykuh] mi funskd] jktHkk"kk , oa l fpo] ujkdkl ngjknw us l Ecks/kr fd; kA jktHkk"kk ea dke l jy djusgrqu, l k&Vos j *l kjk& dk i jh{k.k fd; k tk jgk gA ge l ĀFkkuka vks eq ; ky; eafu; fer vlrjky ij jktHkk"kk dk; k&o; u l febr dh c&Bdka dk vk; kst u dj jgs gA frekgh fj i k&ka dks l dfyr djds i ; k&j.k , oa ou ea-ky; ds jktHkk"kk foHkx dks Hstk tk jgk gA ge 14 fl rEcj dks fgluh fnoI euk jgs g&vks fu; fer #i l sfglunh l l rkg @ i [kokM&sdk vk; kst u gls jgk gA

jktHkk"kk fglunh dks çk&l kfgR djusdsnf"Vdksk ds l kFk ifj"kn- fu; fer #i l s viuh if=dk **r#fplru^ vks f}okf"kd U; nty/vj] okfudh l ekpkj fglunh ea çdkf'kr dj jgs gA

ou vkuo&f'kdh , oa o'k çtuu l ĀFkku] dks EcVij uso"Z2009&2010 ds nks ku fglunh ç' k{k.k ds fy, 27 deplfj; k&1/2xZd] [k , oax 1/2 dks ukfer fd; kA Jh oh-ds M&Y; w ckt i s h] uk&ly vf/kdkjh jktHkk"kk 1/2 us l vj Q&V V&u& , .M , Moku l e&V] c&vks }kjk vk; k&tr du; kd&ekjh 1/4 feyuk& ea 25 vks 26 ebZ 2009 rd , d fo'k&k ç' k{k.k dk; Øe ea Hkx fy; kA l ĀFkku ea 14 l s 19 fl rEcj 2009 rd fglunh l l rkg euk; k x; kA l ĀFkku dsl Hk dh deplfj; kadsfy, çfr; k&xrk, adh xbA 17 fl rEcj 2009 dks, d c&Bd vk; k&tr dh xbZ ft l dh v/; {krk Jh , - , l - tk Q&jh Hk&ok-l } funskd] Vh, u, Q, - dh vks bl ea M&W l h- t; 'k&j ckw l nL; l fpo] 'kgj jktHkk"kk dk; k&o; u l febr us Hkx fy; k vks i&jLdkj forj.k fd; k x; kA

dk"B foKku , oa çks k&x dh l ĀFkku] c&vks us 12 vxLr 2009 dks l ĀFkku ds fyid oxh& deplfj; k& ds fy, fglunh dk; Zkkyk dk vk; kst u fd; k] ft l ea 21 deplfj; kaus Hkx fy; kA fl rEcj 2009 dks l ĀFkku ea fglunh i [kokM& vks fglunh fnoI dk vk; kst u fd; k x; kA fglunh i [kokM& ds nks ku foHkku fglunh çfr; k&xrk vk&dk vk; kst u fd; k x; k vks fo tr&vk&dk i&jLdkj çnku fd, x, A vxLr&fni Ecj 2009 dsl = ds nks ku fglunh f'k{k.k ; kst uk] c&vks }kjk vk; k&tr fglunh vk'k&fyi ç' k{k.k i k&B; Øe dsfy, , d vx&th vk'k&fyid dks ukfer fd; k x; kA fyid oxh& deplfj; k&dsfy, 12 ekpZ2010 dks l ĀFkku ea fglunh l kjk& l k&Vos j ij , d dk; Zkkyk dk vk; kst u fd; k x; k] ft l ea 17 deplfj; kaus Hkx fy; kA , Q-vkj-, y-, p-Vh] c&vks ea 05 ekpZ2010 dks l a &r l jdkj] ubZ fnYyh }kjk l ĀFkku ds jktHkk"kk ds dk; k&o; u dk fujh{k.k fd; k x; kA fujh{k.k ds nks ku çHkjh vf/kdkjh



1/fglnh ¼dksB½ dk'B foKku ,oa ¼ks½ kfxdh I ½Fkku] caxy½ us I ½Fkku }kjk fd, x, jktHkk'kk dk; kBo; u dk; Zdh ¼xfr v½½ dk; Zdyki kaok C; kjk ¼Lr¼ fd; k tks bl ¼dkj g%

- I Hkh ukei VV v½½ I ¼puk ¼k½½ dks rhu Hkk'kkvka ea r½½ kj fd; k x; kA
- I Hkh jcm+LV½ i f}Hkk'kh cukbZxbA
- I Hkh Okbyka ij fo'k; f}Hkk'kh ; Fkk&fglnh v½½ vaxst h eafy [kst k jgsgA
- fglnh ea ¼kr i =kaok m¼kj d½y fglnh eafn; k tk jgk gA
- Okbyka ea fglnh ea fVI i .kh ds I ½U/k ea fLFkr 85% gA
- dk; k½y; }kjk fglnh ea Hkst x, i =ka dh ¼r'krk {ks= d ea 69%, {ks= [k ea 73% v½½ x ea 72% gA
- I ½Fkku ea mi yC/k I Hkh dEI; wjka ea I kjkak fglnh I k¼Vos j Mkyk x; k gA
- I Hkh Okel½@Okel½/kaok fglnh ea vu¼kr fd; k x; k v½½ f}Hkk'kh #i eami yC/k gA

ou vu¼ U/kku d½n½ g½j kcn us 29 tuojh 2010 dks ,d jktHkk'kk ds #i eafglnh dk dk; kBo; u ij ,d fnoI h; dk; Zkkyk dk vk; kst u fd; kA d½n½ us 12 vDV½j 2009 dks fglnh fnoI dk vk; kst u fd; kA

m". kdfVcU/kh; ou vu¼ U/kku I ½Fkku] tcyi g us jktHkk'kk fglnh ds dk; kBo; u dh fn'kk ea fu; fer dk; Zdyki kaok I kFk fglnh I lrg dk vk; kst u fd; k v½½ I ½Fkku ds fy i d oxh½ , oarduhdh de¼k½; kaok ds fy, fglnh ea ¼f' k{k.k@dk; Zkkyk dk Hkh vk; kst u fd; kA

o'kZou vu¼ U/kku I ½Fkku] tkj gkv us I ½Fkku ea fglnh I lrg ½f l rEcj 2009½ v½½ dk; Zkkyk ½B tuojh 2010½ t½ s foHkuu dk; Zdyki ka dk vk; kst u fd; kA fglnh f'k{k.k ; kst uk½ jktHkk'kk foHkuu]

Hkkjr I jdk½ }kjk vk; kst r fglnh ij h{k ¼ckok@ ¼oh.k@¼Kk ea I ½Fkku I s dy 14 de¼k½ cBs v½½ vPNsv¼kaeai kl gq A

'kqd ou vu¼ U/kku I ½Fkku] tkj g us jktHkk'kk fglnh ds dk; kBo; u dh fn'kk ea fu; fer dk; Zdyki ds I kFk =½f l d cBdk½ fglnh I lrg½ I kykuk dk; Zkkyk v½½ vfrfFk 0; k[; kukaok vk; kst u fd; kA

fgeky; u ou vu¼ U/kku I ½Fkku] f'keyk }kjk jk'v½; Hkk'kk fglnh ds ¼l kj v½½ foLrk½ ds fy, vu¼ka dk; Zdyki vk; kst r fd, x, A bl I ½Fkku dh fglnh i ¼j h{k.k I fevr fglnh ea dk; Zds fy, ¼k; %o½k fudka , oade¼k½; kaok s i ½l kfr djrh gA bl ds fy,] bl I ½Fkku ea o½k fudka }kjk fu; fer ¼f' k{k.k fn; k tk jgk gsv½½ ¼f' k{k.k I kexh fglnh eami yC/k djkbZ tkrh gA 12 tuojh 2009 dks Jh eukst Hkd½ Hkk-o-l s dk; k½y; ¼e¼k dh v/; {krk ea i ¼j h{k.k I fevr dh cBd vk; kst r dh xba 11 tu dks'kgj jktHkk'kk dk; kBo; u I fevr ds v/; {k , oae¼; vk; dj vk; ¼r dh v/; {krk ea mi jh cBd vk; kst r dh xba cBd ea Jh vkj-ds 'ke¼½ fglnh vf/kdk½ v½½ MKW jkt s k 'ke¼½ o½k fud us Hkkx fy; kA jktHkk'kk ds #i eafglnh dks ¼k½ kfr dj us gq 3 uoEcj 2009 dks fglnh ij ,d I feuk½ vk; kst r fd; k x; k½ ft l eafglnh dks ¼k½ kfr dj us l s l ½U/kr foHkuu fo'k; kai j tk½ fn; k x; kA

uxj jktHkk'kk dk; kBo; u I fevr] f'keyk ½kgj jktHkk'kk dk; kBo; u I fevr½ dh v½½ I s 25 vxLr dks **¼' u ep** dk vk; kst u fd; k x; k½ ft l ead½n½ I jdk½ ds foHkuu foHkuu fuxel½ f'keyk ds ¼k½ v½½ I ½Fkku ds vf/kdk½; ka , oade¼k½; ka us Hkkx fy; kA fgeky; u ou vu¼ U/kku I ½Fkku ds l e½ dks mudh fo'k½ k½r ds vk/k½ ij igyk ij Ldk½ feykA

14 fl rEcj 2009 dks I ½Fkku }kjk fglnh fnoI euk; k x; kA bl vol j ij MKW fot; ½n½ i ¼k½ us ekuuh; xgea h Jh ihfn rEcje dk I msk i <A



14 I s20 fl rEcj 2009 rd I l.Fkku }kjk fgluh i [kokMk euk; k x; kA

bl I ky ds nksku foKku ds cKl kgu vls foLrkj grqd'key] fcy fpyxst:kj vrh'k vls plsk ij iEQyV dny fgluh eaçdkf'kr dh xba

4-8 vokMZ vls I Eeku

ou vuq U/kku I l.Fkku] nsjknw

- MKW jf'e] oKkfud I h jlk;u çHkx] o-v-l a nsjknw dksnw fo'ofok;] nsjknw ea I Eilu nhl js jk'Vh; ;pk oKkfud I Eesy 2010 ea **ckEdI ekjh ,y- ds vkfkd fo'kskda ij QkbVkbDMhLVhjkbM vls buds çHko fo'k; ij I okke eks[kd çLrdj.k grq; ;pk efgyk oKkfud vokMZ I sl Eekfur fd; k x; kA
- e/k mu pekyh fjl pz LdkWj] jlk;u] çHkx o-v-l a nsjknw dks 9 I s 11 uEcj 2009 rd o-v-l a nsjknw ea I Eilu jk'Vh; okfudh I Eesy ea **ekjI ,Yck ds lFk chp dh Qly ,UMksfQI ifudnykVl ea ,UMksQkfyM ek=k dk vkdyu }kjk e/k mu pekyh ohds ok'.ks vls ih-ds JhokLro 'krkd 'kksi= dsfy, iktVj çLrdj.k oxZearhl jk ijLdkj fn; k x; kA
- fel vfur rkej dkscl d l kbl fo'k; &olrqds rgr 6 vls 7 Qojh 2010 dksnhl js jk'Vh; ;pk oKkfud I Eesy eaçLrq ^thfUV; kuk dgk k& l dVLFk vsk/kh; ikni ds ,d jkbtkeVl v/; ;u^ 'krkd I s 'kksi= ij I okke eks[kd çLrdj.k dsfy, **efgyk oKkfud vokMZ çnku fd; k x; kA
- MKWnhlr oek o-v-l a nsjknw dks thch-ir df'k vls çks ksdh fo'ofok; ea vk; kstr plsk mlkjk[k.M jkT; foKku ,oacs ksdh dkan 2009 ea i; kbj.k foKku ,oa okfudh 'kk[kk ds rgr **dkfiZl fofeuh; k %if'peh fgeky; ka ea vius

vfLrRo dsfy, I ak'kr vkcl oukads, d egRo iwZ ?kVd^ 'krkd ij I okke eks[kd çLrdj.k 2009 dsfy, **efgyk oKkfud vokMZ çnku fd; k x; kA

- ou vuq U/kku I l.Fkku] nsjknw ea I Eilu 9 I s 11 uEcj 2009 rd plskjk'Vh; okfudh I Eesy ea ** ,fct fi d/sdscht vadg.k ij [kjirokj ,oa g; el ds ,yhyki fkd çHko }kjk fo|k jru] vkchj fl g vls , I-lh-fo'okl ij 'kksi= dks iktVj çLrdj.k ea nhl jk ijLdkj çnku fd; k x; kA
- cfl d l kbl vls dfVak& ,st çks ksdh ea ;pk oKkfud vokMZ fjl pz LdkWj Jh f{frrt eYgs-k }kjk çkr fd; k x; k] ftUgks **tVrQk dj'd'k fyu %ck; kMhty mRiknu vls iksk.kh; fodkl ds fy, ,d vk'ktud ikni dsdkf; d ço/kz dsfy, ,d u; hrduhd^ ij dk; Zfd; kA
- Jh , -ds ik.M\$ Hk-o-l çed[k I h, I -, Q-bZvkj-] bykgkcn us20 Qojh 2010 dksbz oj I ju fMxh egkfo|ky;] bykgkcn] fo'ofok; ea ck; kon QsYsvokMZ2010 çkr fd; kA
- Jh ch-ds ik.M\$ oKkfud&I h , I -, Q-bZvkj-] bykgkcn us20 Qojh 2010 dksbz oj I ju fMxh dkyst] bykgkcn fo'ofok; eack; kon fo'kV I ok ijLdkj 2010 ikr fd; kA

ou vkupf'kdh ,oa o{k çtuu I l.Fkku] dks EcVj

- Jh vkj-, I-lh- t; jkt] Hk-ok-ls çed[k ,y-, I-; wl h-lh- çHkx] MKW ch- x#no fl g] çed[k th-Vh-ch- çHkx] MKW ds iykuhLoket] çed[k cht çks ksdh çHkx] MKW, - ckyh çed[k ou j[k.k çHkx] MKW ch- ukxjktu] çed[k ih-ch-Vh- çHkx] MKW ds vkj- 'kf'k/kju] oKkfud&Mh] MKW, - fudkMhe l] oKkfud&Mh] MKWoh- fl odokj] oKkfud&Mh] Jh ekj; k Mksfud I fovls oKkfud I h] Jh Mh- vkj- , I - Ihdj] oKkfud&I h] Jh oh- ds MCV; wckt is h] oKkfud ch] MKW, u- jfo]



oSkkfud&ch] vkj-, Q-vkj-vkbZ tkjgkV] Jh l hds t; plnzu ¼ skfuouk vkj-, &I½ Jh ,e- l kykj [kku ¼ skfuouk vuq U/kku vf/kdkjh½ Jh th iksujkt] vkj-, - ¼ l- th½ Jh , - ngjb] vkj-, &I] Jh ch nhi kjkt] vkj-, &I] Jh v#expe] QkMkVj] Jh Vh , Ufkshl ket] vkj-, &II] Jh ,e- x.k'sku] vkj-, &II] Jh , l- 'kueqpe] Vh-, &III] vls Jh dsVh efr] QkMkV xkMZ us ekuuh; i ; kbj.k , oaou ea-h Jh t ; jke ješk l s vokMZçklr fd ; k] tksmlgaosk l kkkj dk ; De vls ; dsfy/VI , oa dsokfjuk ds Dykska ds fodkl vls mlga tkjh djuseamudsl g ; kx dsfy, çnku fd ; k x ; kA

- Jh , l - l jouu oSkkfud&l h] vls MkWj[kk okfj ; j] oSkkfud&l h] usrfeyukMqdsfdl kuka vls çn'kz xkp ea d'k okfudh çk] kx fd ; ka ds foLrkj vls çkâ ; dk ; byki ka dsfy, ekuh ; i ; kbj.k , oaou ea-h Jh t ; jke ješk l svokMZçklr fd ; kA
- djikxk jktk l [njkb] oSkkfud&ch vls e/kferk nkl xlrk us** ; dsfy/VI Vj fVdMUL ds f}rh ; d tkbye Årdkaeadsk/kq l hUFkst thukadh foLkshdj.k vfHk ; fDr^ iktVj 'kr'kd ds fy, 22 l s 24 tgykbZ 2009 rd Hkrz kj fo'ofol y ;] dks EcVij ea l Eilu tççk] kx dh ea YfUV ; l z ij jk'Vh ; l feukj ea lokke iktVj vokMZ^ çklr fd ; kA
- jk/kk osyfkDdy] ; 'kkskk vkj-] eksu oh vls e/kferk nkl xlrk dks 9 l s 11 uoEcj 2009 rd ou vuq U/kku l hFkku] nsjknw ea l Eilu jk'Vh ; okfudh l Eesy ea ** , DI çsku çkQkbfyax dsokfjuk bfDol hfVQkfy ; k jhLi kM Vw Vtkbdk i kfj ; e ofl dnykd e VMDI u jhohYI vi & jxy'sku vkM MQUL & jhys/M , .M fl xufyax thul bu i skstUl MhQBI ^ iktVj 'kr'kd dsrgr rhl jk ijLdkj çklr gya/kA

m". kdfVcu/kh; ou vuq U/kku l hFkku] tcyig

- ihch- eskjke dks dks çkf.k foKku foHkx] vkU/k fo'ofol ky ;] fo'kk [kki VVue ea 28 vDVm j 2009 dks ikni l g {k ds {ks= ea mYy[kuh; vuq U/kku l g ; kx ds fy, , lykbM tgykMtdy fjl pz , l ksl , 'ku vokMZfn ; k x ; kA
- MkW vkj-ds oek] oSkkfud Mh] MkW oh, l - MMoky] oSkkfud l h] vls Jh , -ds Bkdj] vkj-, -II us **0 ; ki kfjd i ksk'kkyk ea l kxka ds ço/ ; ka ds jki .k ds mRiknu ij tç mojd mi ; kx dh vfHk ; oLFk^ bfM ; u QkMkVj okY ; w 13477¼ 923&931] tgykbZ 2008 'kr'kd l s 'kkski = dsfy, bM ; u QkMkVj l s o'kz 2008 dsfy, ou l o'kz ds {ks= ea çkFUMI vokMZçklr fd ; kA
- Jh l qh'k cDI h] mi ou l g {kd dks rkfe ; k , oa i krkydks/ ds vksk/kh ; ikni ka ds çy[k & i ksk.k vls i kfj & i ; V u ij mudsl g ; kx dsfy, **mRdIVrk dk çek.ki = ^ vokMZfn ; k x ; kA
- MkW Mh-ds feJk] 'kqd ou vuq U/kku l hFkku] tskij dks bM ; u QkMkVj ea çdkf'kr muds l okke 'kkski = dsfy, çkFUMI ijLdkj çklr gya/kA
- MkW lat ; fl g oSkkfud&Mh] ou mRikndrk l hFkku] jkph dks jkph ea 20 uoEcj 2009 dks buVjuškuy dUI ksvz e vkM dUVEi kjjh ck ; ksykMtdLV }kj k nsgdh , oa vlf.od tçodh ds {ks= ea l g ; kx ds fy, **çkQd j ds ds ux QkMUMsku ps j ; x l kbV LV xkM eMy^ çnku fd ; k x ; kA

4-9 fo'k'sk dk ; byki ¼ t s ou egkRi o] okfudh fnol vls vl ; vol j½

ou vuq U/kku l hFkku] nsjknw us 10 tuo jh 2010 dks 'kr'knh ou foKku dth] nsjknw ea Qk/ksxSyjh dh LFki uk dh ga Qk/ksxSyjh dk mn?kkVU



Jh t;jke jes'k] ekuuh; i ;k'bj.k ,oaou ea'h }kjk fd;k x; kA bl vol j ij MKWjesk i k'kfj; ky *fu'kad' ed; ea'h m'ukjk[k.M mifLFkr FkA bl ds vykok bl vol j ij Jh ih'ts nyhi d'ekj] fo'k'sk l fpo i ;k'bj.k ,o ou ea'ky;] MKW th,l- jkor] egkfun'skd Hk-ok-v-f'k-i-] MKW, l-, l- us'h] fun'skd ou vud U'kku l h'Fku] l h'l h, Q-] MKW vkj-eh, l- jkor] c'kku l fpo vuu ok/kou rFk vU; fo'k'V 0; fDr v'k'j fo | k'Fk'z rFk l Ekuuh; ukxfjd mifLFkr FkA

Jh t;jke jes'k] ekuuh; i ;k'bj.k ,oaou ea'h us10 tuojh 2010 dksou vud U'kku l h'Fku ifj l j ea bui V vufyDM l we ek' e foKkuh; Vkoj dk mn?k'Vv fd;kA 13 ehVj A'pk Vkoj] ,Q-vkj-vkbz&bl jka tyok; qifjor'z v/; ; u dk Hkx] o{k N= ,oaokrkoj.k ds chp no ,oa A'tk'z fofue; dks fu; h=r djus okys Hk'srd ,oat'fodh; c'f'Ø; k dh x'k'st ,oakMy d'j'x'kA

ou vud U'kku l h'Fku] ng'j'knu ea 10 vxLr 2009 d'k'ekuuh; i ;k'bj.k ,oaou ea'h v'k'j mik/; {k] ; k'st'uk vk; k'sx ds H'ke.k ds n'k'j'ku o{k'k'j'k'i .k fd;k x; kA Jh t;jke jes'k] ekuuh; i ;k'bj.k ,oaou ea'h us l h'Fku dh vke ok'Vdk {k= ea by'v'k'k'k'z LO'j'd l 1/2 ds L'oe 1/2 ds i k'sk dk j'k'i .k fd;kA MKW ek'v'd fl g vgy'k'f'y; k] mik/; {k] ; k'st'uk vk; k'sx us l h'Fku dh vke ok'Vdk {k= ea , U'Fk'k' h'Q'syl dn'ck 1/2 fed 1/2 dn'Ec' ds i k'skA



ekuuh; MKW ek'v'd fl g vgy'k'f'y; k] fMIVh ps jes' }kjk **dn'Ec** i k'sk j'k'i .k ds vol j ij Jh t;jke jes'k] ekuuh; ea'h rFk vU; vf/kdkj'x.k

dk j'k'i .k fd;kA bl o{k'k'j'k'i .k l ek'j'k'g ea Jh fot; d'ekj] Hk-c-l'j l fpo i ;k'bj.k ,o ou ea'ky;] Hk'jr l j'okj] MKW ih'ts fnyhi d'ekj] egkfun'skd 1/2 ,oa fo'k'sk l fpo] i ;k'bj.k ,oa ou ea'ky;] Jh txnh'k fd'koku] egkfun'skd] Hk-ok-v-f'k-i-] MKW, l-, l- us'h] fun'skd o-v-l a' ng'j'knu v'k'j ifj"kn-ed; ky; ,oao-v-l a ds vf/kdkj'x mifLFkr FkA

MKW th,l- jkor] egkfun'skd] Hk'jr; ok'fudh vud U'kku ,oaf'k{k ifj"kn-us 13 l s 15 tuojh 2010 rd 'k'qd ou vud U'kku l h'Fku] t'k'ski g dk n'k'j'k' fd;kA m'lg'k'us l h'Fku dh c; k'sx'k'kyk ,oac'k; k'sxd {k= dk n'k'j'k' fd;kA egkfun'skd us'f'nu'kad 13 tuojh 2010 dksou l j'k'k' c'k'k'x ds t'd&fu; a.k c; k'sx'k'kyk ,oa l o'k'z d'k'k' dk mn?k'Vv H'h fd;kA



MKW th,l- jkor] egkfun'skd] Hk-ok-v-f'k-i-] ng'j'knu t'd fu; a.k ,oa l o'k'z iz k'sx'k'kyk dk mn?k'Vv d'j'rs'g

Hk'jr; foKku d'k'x'd 2010

l h'Fku us 3 l s 7 tuojh 2010 rd fr#ou'lrige ea l i'lu Hk'jr; foKku d'k'x'd ea Hk'x fy; k v'k'j d'k'x'd ds Hk'x ds #i eavk; k's't'r c'k'bM v'k'k' gky c'n'k'z ea Hk'x fy; kA l h'Fku us ifj"kn-dk LV'ky y'xk; kA



Hk'jr; foKku d'k'x'd 2010 f=oth'e& Hk-ok-v-f'k-i- ds i'n'k'z



okfudh esyk

ou vuq U'kku I h.Fkku us 'krkCnh ou foKku dlnh nsjknw ea12 vDVWj 2009 dks**okfudh esyk^ dk vk; kst u fd; kA esys dk mnas; ykxka dks tkudkj miyC/k djuk Hh Fk rkfd osbu cks ksfed; kadsek; e I slojkt xkj vls vkRe fuHj cuuseaLo; adh enn dj I dA esyseaou vuq U'kku I h.Fkku dsfofHku foHkxkads dk; Zyki ka, oavud U'kku dk; I foHku I jdkjh , oaxj I jdkjh I xBuka dsgLrf'KYi mRi knkadks cnf' kr fd; k x; kA ou vuq U'kku I h.Fkku , oahkxoku xkelsj kx I febr ds I a q r m | e ds # i ea vk; kstr esys ea eYgku] jruij] x.kski g I sfdI kuka usHkx fy; kA I h.Fkku , oa I febr }kjk LFkfi r vEcoyk eavkn 'kZxip dsfdI kuka }kjk mRi knr 'kcdh; , oavkSk/kh; i kni kadksHh cnf' kr fd; kA I gHkfx; ka ea umknsh ck; k. Qs j jhto] uonkU;] eerk ukjh mRFkku] , I -Vh-bzi h] efgyk fodkl I febr] vj.;] mUkjk[k.M [knh , oa xkelsj kx ckMz , oa mUkjk[k.M cka jSk fodkl ckMz I h jkU I ekt I sh I h.Fkku i kfj & i ; X u mUkjk[k.M 'krfey Fka

rfeyukMq U; ut fca/ fyfeVM] d#j ea fdl ku esyk

ou vkuqf'kdh , oao{k ctuu I h.Fkku dks EcVij us dWVo jsi .ka ij rfeyukMq U; ut fcaV fy- ea vk; kstr fdl ku esyseaHkx fy; k vls bl eavk; kstr cn'kz eaHkx fy; kA



rfeyukMq U; ut fiUV fy- }kjk vk; kstr fdl ku esysea ou vkuqf'kdh , oao{k iztuu I h.Fkku dh I gHkfxrk

ou mRi kndrk I h.Fkku] jkph us22 I s24 Qojh 2010 rd Hkjr; ckdfrd jky , oa xkn I h.Fkku]

ukedq] jkph }kjk vk; kstr vls foLrkj funs'kky;] df'k , oa Igdkfjrk foHkx] df'k ea-ky;] Hkjr I jdkj }kjk ik; kstr {ks-h; df'k esyk 2010 ea Hkx fy; kA ou mRi kndrk I h.Fkku ds LVky dks Iokke pdk x; k vls cfke ijLdkj fn; k x; kA



jkph ea {ks-h; df'k esyk 2010 eaou mRi kndrk I h.Fkku] jkph dh I gHkfxrk

o'kzou vuq U'kku I h.Fkku] tkjgkV usdkskj kj xky?kV ea3 I s6 tuojh 2010 rd I Eilu dkt jk gkFh mRi o eaHkx fy; kA I h.Fkku us3 uoEcj 2009 dks vle df'k fo'ofokly;] tkjgkV ds vLrxr {ks-h; df'k vuq U'kku LVs'ku] frkckj ea fdl ku esy* eaHh Hkx fy; kA

o'kz ou vuq U'kku I h.Fkku] tkjgkV us xky?kV vle ea 25 I s27 Qojh 2010 rd df'k foHkx] vle I jdkj vls vle df'k fo'ofokly;] tkjgkV }kjk I a q r # i I s vk; kstr **jkt; Lrjh; df'k cxxokuh cn'kz ea Hkx fy; kA vBBkou I gHkfx; ka ea o'kz ou vuq U'kku I h.Fkku ds LVky dksrhl jsl.Fkku dsfy, pdk x; kA



o'kz ou vuq U'kku I h.Fkku] tskigkv us vl e batf; fja I h.Fkku ds [ksy eñku] pku ekjh] xopkvh ea 3 l s7 Qojh 2010 rd vl e foKku çs] kfxdh ,oa i ; kbj .k i fj "kn]-xopkvh ¼/vl e½}kjk vk; kst r m | fe; ka dsfy, çs] kfxdh çn'kz graqn'kz h ea hkkx fy; kA

'kqd ou vuq U'kku I h.Fkku] tskigj uschjkjh] Hkks kyx< } jktLFkku ea 22 Qojh 2010 dks Jh e#/kj cixokuh df" k mRiknu fodkl I febr ds l g; ksx I sdf" k çs] kfxdh çcU/k çkf/kdj .kj tskigj }kjk vk; kst r , d fnol h; fd l ku esy seahkkx fy; kA

vUrj kZVh; tsofofo/krk fnol ¼/kbZch-Mh-½

ou vuq U'kku I h.Fkku] nsjknw us22 ebZ2009 dks vUrj kZVh; tsofofo/krk fnol euk; kA bl vol j ij 500 l sT; knk Hkjr h; , oafonskh vkxUr çkaus l h.Fkku dk nkj k fd; kA

dk" B foKku , oach] kfxdh I h.Fkku] caxyk] us 22 ebZ2009 dks vUrj kZVh; tsofofo/krk fnol euk; kA çkQd j ckyd" .kk xk] k ; w , - , l - caxyk] us *tsofofo/krk , oackgjh çtkfr; ka ij 0; k[; ku fn; kA

'kqd ou vuq U'kku I h.Fkku] tskigj us 22 ebZ2009 dks vUrj kZVh; tsofofo/krk fnol euk; kA funskd] 'kqd ou vuq U'kku I h.Fkku] tskigj us bl vol j ij uhe i k] ksdk jki .k fd; kA

fgeky; u ou vuq U'kku I h.Fkku] f'keyk us 22 ebZ2009 dks vUrj kZVh; tsofofo/krk fnol 2009 euk; kA bl dk vk; kst u fgeky çnsk dh tsofofo/krk vks] vkQed fonskh çtkfr; ka ds çfr fo | kfkz; ka dks tix#d djusdnf" Vdksk dsl kfk fd; k x; k gA

ou mRi kn drk I h.Fkku] jkph us22 ebZ2009 dks vUrj kZVh; tsofofo/krk fnol euk; kA bl vol j ij , d dk; Zkkyk dk vk; kst u fd; k x; kA fo' o i ; kbj .k fnol

ifj"kn-ds l Hkh I h.Fkku] ka us foHku dk; Zdyki ka dk vk; kst u djds 5 tw 2009 dks fo' o i ; kbj .k fnol euk; kA mRi o dh fo" k; & oLrqFkh & *vki dh /kjr h dks vki dh vko' ; drk gS& tyok; qifjorZu jksd us graq , d gk" A

ou vuq U'kku I h.Fkku] nsjknw us fo' o i ; kbj .k fnol vks] ou vuq U'kku I h.Fkku] fnol ij okfudh ,oa i ; kbj .kh; tix#drk dk; Zdeka dk vk; kst u fd; kA I h.Fkku] dks i k] yhcSkal seDr j [kus ds fy, , d vfhk; ku pyk; k x; kA ou vuq U'kku I h.Fkku] ifj l j dks i k] yhcSkal seDr j [kus ds vfhk; ku ea o-v-l a fo' o fo | ky; ds l Hkh vf/kd kfj; k] depkfj; ka vks] fo | kfkz; ka us hkkx fy; kA dk; Zde ds ed; vfrfFk MKW , l - , l - usch] funskd o-v-l a us I h.Fkku] ifj l j dks i k] yhcSkal seDr j [kus dh vihy dh a bl dk; Zde ds nk] ku ou vuq U'kku I h.Fkku] dks l p uk dshz ea , d çn'kz h dk vk; kst u Hkh fd; k x; kA

ou vkuqñ'kdh ,oa o'k çtuu I h.Fkku] dks EcVij us o'k] k] ki .k dk; Zde ds ek; e l s fo' o i ; kbj .k fnol euk; A , u - d" .kkdepkj] funskd mi fLFkr tu l eng dk Lokxr fd; k vks] i ; kbj .k dks LoPN cuk, j [kus ea ukxfj dka dh Hkiedk ij çdk' k Mkya Jh vaky feJk] Hkç- l s vk; Dr dks EcVij] fuxe ed; vfrfFk FkA

'kqd ou vuq U'kku I h.Fkku] tskigj us 5 tw 2009 dks fo' o i ; kbj .k fnol euk; A bl vol j ij uhe ¼ st smj DVk bMdk½ dk jki .k fd; k x; kA I h.Fkku] dh vuq U'kku dh ed; & ed; ; ckrka dks n'kz s gq , d i =d Hkh fgluh eatkj h fd; k x; kA

ou mRi kn drk I h.Fkku] jkph us jki .k dk; Zde dk vk; kst u djds 5 tw 2009 dks fo' o i ; kbj .k fnol euk; kA bl fnol ds nk] ku I h.Fkku] ifj l j ds pkjka vks] foHku çtkfr; ka ; Fk& l kbdl çtkfr] bybdkil LOjdl ¼#nk½ feek. i kd byach vks] l kjkd bMdk ds djhc 200 iknika dk jki .k fd; kA

fo' o okfudh fnol

ou vuq U'kku I h.Fkku] nsjknw us l h.Fkku] ds l p uk dshz ea vk; kst r , d çn'kz h ds l kfk 21 ekpZ2010 dks fo' o okfudh fnol euk; kA vkxUr çka dks çn'kz çs] kfxdh; kadh tkudkj h nh xbA



fgeky; u ou vuq U/kku I hFkku] f'keyk us 22 ekspZ2010 dksfo'o okfudhfnol euk; kA ou foKku dlnz I qnjuxj us ekMy I huj; j I dlnz Ldny ch-ch, e-ch] I qnjuxj ds Ldnyh cPpka ds fy, i; kbj.kh; tkx#drk dk; Øe dk vk; kstu fd; kA m". kdfVcU/kh; ou vuq U/kku I hFkku us Hkh fo'o okfudhfnol dk vk; kstu fd; kA



fgeky; u ou vuq U/kku I hFkku] f'keyk }kjk fo'o okfudhfnol euk; k x; k

I rdZrk tkx#drk I lrg

ifj"kn-vkSj bl dsl Hkh I hFkku kus 3 I s7 uoEcj 2009 rd I rdZrk tkx#drk I lrg euk; kA jk"Vh; çkSj kfxdh fnol

ou vuq U/kku I hFkku us 11 ebZ 2009 dks jk"Vh; çkSj kfxdhfnol dk vk; kstu fd; kA

j fXLrkuhdj .k jkdsusdsfy, fo'o fnol

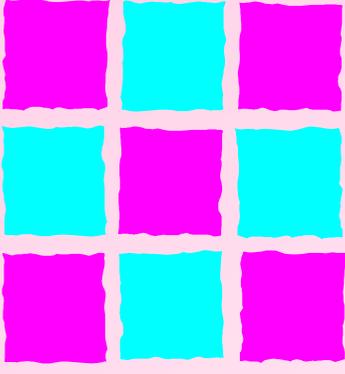
'kqd ou vuq U/kku I hFkku tkski g us 17 tw 2009 dks j fXLrkuhdj .k jkdsusdsfy, fo'o fnol euk; kA I hFkku eadkfeQjk fo?kVh%kxxy%dk jki .k fd; kA ekuuh; Jh eY[kku fl g] , e-, y-,] yuh] fo/kku I Hk eq; vfrfk fka bl vol j ij eq; vfrfk }kjk **j fXLrkuhdj .k% fu; æ .k ds fy, pqlsr; ka , oa j .kulfr; ka ij i=d , oaiEQyV tkjhd, x, A

'kqd ou vuq U/kku I hFkku] tkski g us 30 tykbZ2009 dks60^{0a} ou egkRI o euk; kA bl vol j ij ij I j eaute o{kadksjki .k fd; kA



'kqd ou vuq U/kku I hFkku] tkski g us j fXLrkuhdj .k jkdsusdsfy, fo'o fnol euk; k

dk"B foKku , oa çkSj kfxdh I hFkku ea mlur dk"B deZ çf' k{k.k dlnz dh LFkki uk 1/2u/kh; u , tdl h %bVky; u VM deh' ku@, -I h-vkbZ, e-, -, y-, y-1/2 mlur dk"B deZ çf' k{k.k dlnz vkbZMY; w, I -Vh&vkbZl h-bZ&, -I h-vkbZ, e-, -, y-, y- }kjk , d fgluh&bVky; u I a q r ifj; kstu] I pkyu dsvkBoao"lzeaošk dj x; h gA ; g dlnz I h, u-I h e'khu] ft I s o"lze2008&2009 dsnkSku LFkfi r fd; k x; k Fk I fgr 21 mlur dk"B deZe'khuka dsl kfk I q FTtr gA o"lze 2009&2010 dsnkSku] dlnz us ikjEifjd ikB; Øe dsfy, 78 çf' k{k.k kfkZ kavls I h, u-I h ikB; Øe dsfy, 39 çf' k{k.k kfkZ kavls çf' k{k.k fn; kA 2003 I svc rd dlnz }kjk 1003 yskak/cpokj%dkscf' k{kr fd; k gA Hkjr ea 110 I svf/kd m | kxka %Bkd dk"B , oa i suy inkfZ çØe.k% us dsi I I k{kRdkj@ I h/ks I k{kRdkj djds çjst xkj fo | kfkZ kavls jst xkj dk vol j fn; k gA bl çf' k{k.k dsl kfk djhc 98% çjst xkj çf' k{k.k kfkZ kavls jst xkj eaykHk gq/k gA mlur dk"B deZ çf' k{k.k I hFkku us**bAM; k oyl 2010^{aa} eaHkh Hkx fy; k tkscaxyk ea I Eilu gq/kA



प्रशासन एवं सूचना प्रौद्योगिकी



प्रस्तावना

; g funskky; LFkki uk dksn[krk gSvks id u
I sy] i kfr izdksB] HkYkzckM] ctV vutkx vks vkj.k
, oaforj.k dk; kzy; dsI pkyu ij fu; æ.k j [krk gA
funskky; ifj"kn-eq; ky; vks ou vud U/kku I aFkku
dh I puk i ks ksdh vko'; drkvkackshh n[krk gA

5.1 सूचना प्रौद्योगिकी

vkt I puk i ks ksdh I aBukRed {kerk vks
mRd"Vrk ds ogn I pkydkaea l sg vks bl fy, ; g
i R; d vFkz iz kl eavko'; d ?kVd gA ; g HkjrH;
okfudh vud U/kku , oaf'k{k ifj"kn-dsekeyseaHh gA
ifj"kn-eaiz kkl u funskky; dsv/khu I puk i ks ksdh
i Hkx viusv/khu ifj"kn-eq; ky; vks I aFkku tksnk
Hk eaQsYsg dh I puk i ks ksdh vko'; drkvkacksi jk
djrk gA pfid I puk i ks ksdh ds {ks- eaifjorZu , oa
mlufr; kavR; f/kd rst xfr I sgkch gA ifj"kn-Hh vius
dksmu ifjorZu dsI kfk cuk, j [krh gA ifj"kn-ea"z
2009&10 dsnkku I aBukRed mnas; kacksi jk djuk
vks uohure i ks ksdh dsI kfk I keltL; cuk, j [kuk]
I puk i ks ksdh dsfy, I pkyd FkA

I puk i ks ksdh , oa {kerk fuekzk dsI anHz ea
i ; kzk.k , oaou ea-ky;] ubZfnYyh }kjk fofufnZV bZ
xouBI dk; De dk dk; kzo; u ifj"kn-dj jgh gA
ifj"kn-eq; ky; dh gkMds j vko'; drkvkack fo'y sk.k
fd; k x; k vks i ; kzk.k , oaou ea-ky; I sM&dVkm
dEI; wjka, oafi BVjka ds i kfr ds }kjk ekæ ij dh xbz
rFk ifj"kn-eq; ky; eal Hh vf/kdkfj; k@depkfj; kal s
ydsj voj Jskh fyfid Lrj rd M&dVkm dEI; wj , oa
fi BVj I sl q fttr fd; k x; kA

mi ; Dr vk/kjHkr vol j puk fuekzk dsvykok
dN egRo iwz'kq fd, x, dk; Zg%

¼d½ HkjrH; okfudh vud U/kku , oa I puk izkkyh
dk fodkl

¼k½ HkjrH; okfudh vud dku , oa f'k{k ifj"kn-
I oJ QkeZMkV I BVj½dh LFkki uk

HkjrH; okfudh vud U/kku , oa I puk
izkkyh dk fodkl ¼bQfj I ½ dk fodkl

HkjrH; okfudh vud U/kku , oa I puk izkkyh
dk fodkl ¼bQfj I ½ fuEu mnas; ka dsI kfk , d xgu
I puk i ks ksdh I ek/kku dsdk; kzo; u dsmnas; ds
I kfk HkjrH; okfudh vud U/kku , oa I puk izkkyh dh
I dYi uk dh xb%

¼d½ dN orZku glr dk; Z izkfy; kackLopkfy
izkfy; kaea: i kJrfjr djukA

¼k½ I aBu ea dk; Z ds I anHz ea igp] {kerk]
i kJnf'kzk vks mYkjkf; Ro dsc<kukA

¼x½ dk; Z dkg Lopyu vks Kku izak ds }kjk
ifj"kn-dh vud; k c<kukA

¼k½ HkjrH; okfudh vud U/kku , oaf'k{k ifj"kn-ea
mi HkDrkva vks i .k/kfj; ka }kjk I puk vks
I skvkaei gp dh I jyrk dsc<kukA

kfj; kst uk dksrhu Lrjh; dk; Zyki ds: i ea
fu; kstr fd; k x; kA mnkO I dYi uk] ifj; kst uk fodkl
vks I kVos j fodkl , oadk; kzo; uA i fr; kxh fcfMak
}kjk es I Z I kkk jhus BI buQjesku VdukskHh
cayks dsk; Z I k k x; kA ifj; kst uk dk; Z tuojh
2008 dseghus dsnkku 'kq gpk vks izkkyh vki kd
: i I s 2009&10 ea 'kq gpA bl ds 2010&11 ea ijh
rjg 'kq gksdsh vk'kk gA



bQfjI dsnksef; Hkx gāmnkO Hkjr; ofudh vud U/kku izdk I pūk izkkyh ½Qjfel ½ vks Hkjr; ofudh vud U/kku izkkl u I pūk izkkyh ½QkjkbI ½gā dQn eq; vud U/kku& oS bus:YM& I ok, avks vfHky[ki tksbQfjI }kjm iyC/k dj, tk, xš bl izdkj g%

¼½ ckgj I sfu/khf; r ifj; kstukvkal fgr vud U/kku ifj; kstuk vkqMk-vk/kkj

¼½ vupku vks vud U/kku izrko

½ I pūk@fjI k/vkēhkd vk/kfjr igp

½ vud akku fjI k/vkēh MkmuykM; k; I kjk

¼½ dkfed I pūk isjky vks foYk; y[kk izkkyh i kfr, oal phdj.k

¼½ iqrdkyk; I pūk izdk izkkyh

¼½ dnb; dr vkqMk Hk.Mkj ij I pūk dh okLrfod I e; miyC/krk

Ikfj; kstuk I LFkkxr : ijs[kk, d iHkoh ep cu x; k gš ftI eaI LFkku 'kr'z I febr; k rduhdh I febr vks ifj"kn- 'kr'z I febr i.k/kfj; ka dh vk'krvka, oafpkrvka dh tkudkj hysvks dk; k; u izfr dk i pjh(k.k djus ds fy, fu; fer cBdka dk vk; kstu djrhgā

bz pSEi; u] ifjorū, tV dh igpku I xBu ds Lrj ij mi; kx ds vxhdj.k, oafjorū izdk ds fy, I Hh I LFkkvkal sdh xBā b& pSEi; u dks ifj"kn-ea if'k(k.k, oadk; Zkkyvka}kjk if'kf'kr fd; k x; kA

Hkk-ok-v-f'k-i- I o] QkeZ ¼MkVv I vj ½

Hkk-ok-v-f'k-i- I o] QkeZ bQfjI mi; kx, oa vl; I Ec) eq; I okvka dks nsk gš tksbl izdkj g%

¼½ vkqMk-vk/kkj vks mi; kx I ok, a

¼½ bzesy] oS I fo] Mkesu ue I fo] , oai kD I h I fo] st

¼½, fUVokbjI vks I g[kk mRi kn tS sdk; jokyI] bUVit u MhVd'ku vks jkdFke izkkyh vkfnA

¼½ dUVV fQYVfjak I ok, atS s, fUV, I ih, , ej, fUV Likboj vkfnA

¼½ mi; dr MkVv cSvi vks us/odZ vuoh(k.k I kku

viuh I jpuj 'kq dh xbZ I okvka dh fdLe vks fd, x, vuoh(k.k i k/vkēh ds vk/kkj ij Hkk-ok-v-f'k-i- vkqMk dnmz dks, d vkbz, I-vks 27001&2005 iek.kdr vkqMk dnmz vks I ok Lrj Lohdr fd; k x; k gā

5-2 I ok'ke

Hkjr; ofudh vud U/kku, oaf'k[kk ifj"kn-vudka rjhdS I sukxfj dka, oafius xkgdka ds I kfk ikjLifjd fO; kdjrhgā tc I pūk i kS kSxdh dh ckr vkrh gS rks varjki "B ifj"kn- oS I kbVka vks bzesy I okvka fo'kSkdj viuh Lo; adh izkkyh ft I s I xBu usLFkkfir fd; k gš dstfj, gkrk gā oS I kbVka vks bzesy izkky; kads I Ei wZnSk eafj"kn-dsfofHku I LFkkuka ea o"z Hkj 24 x 7 ds vk/kkj ij izC/kr djrhgā

5-2-1- foHkkx vks bl dh v/khuLFk I jpuj ds fy, pkVj dks I =c) dj usgrgdh xbZ dkj bkbZ

Tku f'kd; r dk; z) fr vks I ok nS dh {kerk I ok'ke : ijs[kk ds egroi wZ rRo gā Hkk-ok-v-f'k-i- dk izkkl u, oal pūk i kS kSxdh 'kk[kk eq; r%oS vk/kfjr mik; ka ds }kjk tu I kku; , oa xkgdka ea I pūk miyC/k djkuš I pūk i kS kSxdh vUrjki "B I fgr foHku mik; kads }kjk I pūk ds iz'kj] mu I k/kkadsek/; e I sukxfj dka evufO; k] tkl pūk ds vf/kdj vf/kfu; e dsrgr vkrsg vks I xBu }kjk vk; kstr dk; Zkkyvka, oal feukjai j fuHkj djrhgā

Hkjr; ofudh vud U/kku, oaf'k[kk ifj"kn-oS I kbV (www.icfre.org) 'kq fd, x, vkbz Vh miOe vks tkjh foHku dk; kadh izfr ij I pūk vks



C; kjk mi yC/k djkrh gA oel kbV dksl Ei wZfol; kl ds l kfk bl l puk OkeV dN l ky igysxfBr , d mPp Lrjh; l febr }kjk fu/kkZjr fd; k x; k FkA orZku ea mi yC/k djkbZ tk jgh l puk bl h Lohdr OkeV dks vi ukrh gS vLFkk; h : i l sifjofrZ l puk gh dOy og rRo gStksl e; dsl kfk ifjofrZ gkrh gA

5-2-2- pkVj ds dk; kOo; u dsfy, dh xbZ dkj bkbZ

pkVj fodfl r fd; k tk jgk gA rFkfi] fopkj tksl okke eafopkj dh xbZ idfr dspkVj ealFkku ikrS gS dksvf/kdrj uhpsnh xbZ l puk ds: i eadk; kZlor dh tk jgh gS tksn'kkZrh gA

5-2-3- pkVj ds mi; Dr dk; kOo; u ds fy, l Ei lu if'k{k.k dk; Øeka dk; Z kkykvadk C; kjk

Hkjr; okfudh vuq l/kku ,oa f'k{k ifj"kn-eq; ky; ,oa bl ds l hFkku }kjk vuadka if'k{k.k dk; Øeka, oadk; Z kkykvadk vk; kst u fd; k x; kA bu ea l sdN uhpsl phc) g%

1/2 dk"B fokku ,oa iks ksdh l hFkku usegRo iwZ izk"Bkadh {ks= igpku} izk"B ; kst d] izk"Bka ds oxhdj.k ,oa Jskhdj.k dk"B j{k.k} vk/kud cht vS iks'kkyk iks ksdh] dk"B l akks.k ,oa ifjj{k.k} fu"d"zk@ifjLdj.k rduhdavS midj.k fo'ySk.k} ikni igpku {ks= fof/k; ka ,oa l azky; rduhdh , dhdr uk'ktho izak] okfudh ,oadf'k okfudh izkkyh ea l kA; dh dk mi; kx% fl)kar ,oa dSk v/; ; u tS s fo"ka; ij 5 fnolh; ,oa 3 fnolh; if'k{k.k ikB; Øeka dk vk; kst u fd; kA ; g if'k{k.k 2005&2006 l s vk; kst u fd; k tk jgk gA

1/2 l hFkku vkj , th cBd] i.k/kjh ikjLifjd fO; k cBd@lEidZ cBdkh bUMk&bVky; u

l feukj vS gj l ky Hk-o-l s vf/kdkfj; ka ds fy, vfuok; Zif'k{k.k Hk vk; kstr djrk gA

1/2 jk"Vh; ckl fe'ku dsrgr jktfi iyk] xqjkr vS dks/k] jktLFkku eacl ij fd l kuka, oa{ks= dk; ZrkZ/ka ds fy, nks, d l lrg ds if'k{k.k dk vk; kst u fd; kA

1/2 bl l hFkku }kjk 14 l s 18 fnlEcj 2009 rd i; kZj.k ,oa ou ea=ky;] Hkjr l jdkj] ubZ fnYyh }kjk iz kstr **detkj jfxLrku ikjra= ds iks.kh; fodkl ds fy, , dhdr , ikp** ij Hk-o-l s vf/kdkfj; ka, d l lrg dk vfuok; Zif'k{k.k vk; kstr fd; k x; k] ft l ea 31 Hk-o-l s vf/kdkfj; kaushkx fy; kA

1/2 i .k/kfj; ka 1/2 d l kul xS l jdkjh l xBu vS ou foHkx 1/2 ds i kFkuk ds vk/kj ij 16 uoEcj 2009 dks jktLFkku ea [kthj eR; Zk ij , d fnolh; xgu fopkj&foe'kZ l feukj dk vk; kst u fd; k x; k] rkfd [kthj eR; Zk dh l eL; k dk l ek/kku] bl ds vkuo f'kd l qkj ,oa l j{k.k graq l eflor ifj; kst uk dks l f=r fd; k tk l dA xgu fopkj foe'kZ l = dh vuorZ dkj bkbZ ds: i eami; Dr ykbu ij [kthj ij l eflor ifj; kst uk rS kj dh xbZ vS dk; kOo; u dkj bkbZ ds fy, vkj ih l h }kjk bl slohdr fd; k x; kA

1/2 Hkjr; ou izak l hFkku] Hkky ds l g; kx l s tkski g ea 29 vxLr 2009 dks iks.kh; xS izk"B ou mit izak ds fy, ekin.M ,oa funZkdka dk fodkl ij , d dk; Z kkyk dk vk; kst u fd; k x; kA



1/2 तः इत्सु क्खधु धु इत्सु क्खधु वत्सु ,e-, l-l h
fo | kfkz; ka l s fuonu vtsj vko'; drk ij
vk/kfjr tkskiij ea, e-, l l h ch , l l h ch
Vst fo | kfkz; kadsfy, ikni tः इत्सु क्खधु ij
if' k{k.k dk; Dekaak vk; kst u fd; k x; ka

5-2-4- ukxfj dks@xkgdkadsfy, pkVj
ij vk; kftr tkx: drk vfHk; ku vtsj
fd, x, ipkj iz; kl kaak C; ksj k

Hkjr; okfudh vud U/kku , oaf' k{k ikj"kn-us
ipkj , oatkx: drk l' tu dk; Dekaak kaak eai; klr
, oafoko iz; kl fd, vtsj vudkaak; Dekaak vk; kst u
fd; ka fp=. k l ph uhsnh xbZgA

1/2 dk"B fokku , oaf' k{k ikj"kn- us
cakyk] tks ikj"kn- ds v/khu , d l h Fku g\$ fuEu
i l rdkvkaak izk'ku fd; k ftlgaaf'k esyk ikj"kn-
, oaf'ku dk; Dk] ou fokku dnta ea fu%kq'd
ka/k x; ka

i EQysV 1/4rsyxik

- 1- l lny
- 2- ul jh i dVI st
- 3- i kVz; y fMFLVysku ; fuV
- 4- Nks?kjs ds izk"B , oacka dsmipkj dsfy,
l s & fMI lys eB rduhd
- 5- Qkba l cakyk l l
- 6- i kaefe; k fi UkVv
- 7- VDVksk xBIMI
- 8- Ekfjak vkfyQjk
- 9- dTofjuk bfDo l hfVQksy; k
- 10- , ds'k; k fuykfvdk
- 11- MSof t z k fl LI w

i EQysV 1/4duuM1/2

- 1- l lny
- 2- ul jh i dVI st
- 3- i kVz; y fMFLVysku ; fuV
- 4- Nks?kjs ds izk"B , oacka dsmipkj dsfy,
l s & fMI lys eB rduhd
- 5- oS; w, fM'ku vkND fVEcj & lyk/sku xksu , M
ys j uksu Lihl ht
- 6- oM l htfuak
- 7- oM lykLVI kbt'sku , M cBv ikMDVf Yke
dkaakV oM
- 8- , , e Qakh , St ck; kQFVz/kbt j bu QkjLVh

i EQysV 1/4vaxsth1/2

- 1- l lny
- 2- ul jh i dVI st
- 3- i kVz; y fMFLVysku ; fuV
- 4- l s fMI lys eB VSDuDI Qkij VhfVax Lky
fxFz fVEcj , M cBcw
- 5- oS; w, fM'ku vkND fVEcj & lyk/sku xksu , M
ys j uksu Lihl t
- 6- oM l htfuak
- 7- oM lykLVI kbt'sku , M cBv oM ikMDVf
Yke dkaakV oM
- 8- , , e Qakh , St ck; kQFVz/kbt j bu QkjLVh
- 9- buYk LVDpj jhDI ; jebV , M osthvsvO
i k s s'ku vkND MIMkdsykel LVkdh ckbZ dYe
dfVax

i EQysV 1/4dkad. kh1/2

- 1- i kVz; y fMFLVysku ; fuV
- 2- Nks?kjs ds izk"B , oacka mipkj dsfy,
l s & fMI lys eB rduhd
- 3- veksu; k lykLVI kbt'sku
- 4- veksu; k Qfex'sku



I &Fku dsfuEu izk'ku@rdudhdh cyfVu g] ft l eal sdN vaxstj dluM+v]s rsyxwag& blga
Hkxrkku vk/kkj ij ykxkadksmi yC/k dj;k; k x; k g&

Ø-I a	ck' kv l Z	Hkk"kk
1	I lny	dluM+
2	V&sjUM	dluM+
3	c&cw	dluM+
4	dSokjuk	dluM+
5	uhe	dluM+
6	; wsfyIVl	dluM+
7	tV&Qk	dluM+
8	esykbuk ¼i' kokuh½	dluM+
9	Eksjak ¼umkh½	dluM+
10	vxjcVkh	vaxsth
11	dSkej&	vaxsth
12	I lny	vaxsth
13	Qk; k&hVhfj vksjku vk& o&l , M bVt i h&B'ku bu b&M; u dk&Vy okVI Z	vaxsth
14	I lny	rsyxw
15	V&sjUM	rsyxw
16	c&cw	rsyxw
17	dSokjuk	rsyxw
18	uhe	rsyxw
19	; wsfyIVl	rsyxw
20	jM I &MI Z	rsyxw
21	dSkej&	rsyxw
22	dSkej&	Rkfey
	Rkdudhdh cyfVu@I ipuk Ja[kyk	
1	, jsi M , M uk& MhLV&DVo V&Dud Q&M bflVesV x x&Fk LV& bu Vht , M yk&M	vaxsth
2	MhV&'ku vkbM&Vjh , M esist&SV vk&D buI &V i&Vt vk&D fV&Cj	vaxsth
3	o&l I htfu& , M ihtj&osku	vaxsth
4	, xkbM Vwb&Ei&V&V fV&Cl Z bu I kmFk b&M; u ekd&V	vaxsth
5	Lk&ny Vh ¼i&Vt , M fMtst , M nh; j esist&SV½	vaxsth
6	i&V& y fMfLVysku ; fuV Vw , DI V&DV bi &U'k; y vk&M y	vaxsth
7	vek&u; k lyk&LVI k&tsku vk&D dk&dk&V o&l Q&M o&S; w , fM'ku	vaxsth
8	I s fMI lys& esV V&DuDI Q&M V&V&h& L&ky fx&F&Z fV&Cj vk&M c&cw	vaxsth@dluM+
9	O&kbV ¼lykb i&Vt bu Q&M&Vh , M nh; j esist&SV	vaxsth
10	vk&M&nyj ek&bd&jk&ty ¼ , e½ Q&h , & ck; k& Q&fV&yk&tj bu Q&M&Vh	vaxsth



Ø-l a	i q r d a	Hkk"kk
1	/ ØVsyē , Yce ¼ Uny½	vakst h
2	Øk; kš/hV/hfj vkj'sku vkñD fV'Ecj , M bV+ i hōš'ku	vakst h
	i kš hfMæ l	
1	Qkjñ.Vñ Qkjñ.V i kš/DV+ i kš/DV+ , M dk.Vy i kñ/gy'sku	vakst h
2	oñl i h tjo'sku bu bñM; k% pšyñtst] vkñ/kpñññt , M LVš/hft l	vakst h
3	bñVš/hDpwy i kš Vñz jkbV+ bu Qkjñ.Vñ b'kut	vakst h
4	dñto'sku] jñLVj'sku , M l l Vñsy ešstebV vkñD ešñD Qkjñ.V+ bu bñM; k	vakst h
5	dñtjōj 'ku] bñmēbV] dñVVo'sku , M ešstebV vkñD l Uny	vakst h

[k- bl h izkj] 'kñd ou vuq U'kku l ã.Fkk] tskij ušññfuEu ipkj iz kl fd, %

- Xkq: jkr ou vuq U'kku l ã.Fkk] xk/khuxj ea 27 l s29 uoEcj 2009 rd vk; kštr if'k{k.k }kj k ou foKku dñz dsrgr D; kyhl fdl kuka vñš {k= dk; ðrñz/kædxi f'kf'kr fd; k x; kA
- fdl ku Hkou fedkuj] jktLFkk ea ou foKku dñz ½ jktLFkk ½ dsrgr 13 l s15 Qjoj 2010 rd fdl kuka vñš {k= dk; ðrñz/kæ dsfy, rñu fñol h; if'k{k.k vk; kštr fd; k x; kA
- i .k/kfj; kã fdl kuka xš l jdkjh l ãBuka dk"B vk/kfjr m | kxkñ i; kōj .kfonka vñš jkT; ou foHkkxkãz ea l ã.Fkk dks foHkkUu vuq ãkku ifj; kst uk dsrgr 'kñk ifj .kñeka , oafodfl r i kš kšxf d; kã ds izl kj dsfy, 2 l s11 tuojh 2010 rd jko.k dk pcw jk] tskij ea l Eilu if'peh jktLFkku glrf'kyi mRl o ea Hkkx fy; kA
- fdl kuka }kj k {k= mi; kx dsfy, ifj; kst ukvka ds vuq ãkku ifj .kñeka ds izl kj dsfy, çhj kōz Hkš kyx<+ jktLFkk ea 22 Qjoj 2010 dks Jh e#/kj cñxokuh dñk mRi knu fodkl l febr ds l g; kx l s dñk i kš kšxdh izkñ i kf/kdj .k] tskij }kj k vk; kštr , d fñol h; fdl kuk eys

ea 'kñd ou vuq U'kku l ã.Fkk] tskij ušññx fy; kA

- i .k/kfj; kã }kj k viukus vñš izl kj ds fy, vuq ãkku vñr% ifj .kñeka , oã i kš kšxf d; kã ds foLrkj , oã ipkj dsfy, 'kñd ou vuq ãkku l ã.Fkk ni z k dk frekgh izk'ku fd; k x; kA
- okfudh] dñk ds Ldny , oã egkfo | ky; fo | kfñz; kã vñš l Ec) fo'k; ds fo | kfñz; kã 'kñk kfñz; kã fdl kuka xš l jdkjh l ãBuka jkT; ou foHkkxkã dsfy, okfudh ea tu tkx: drk , oaf'k{k gñfuopu dñzdh LFki uk dh xBã
- ou egkñ l oñ i; kōj .k] tñ fofo/krk vñš ykñka ea tkx: drk l tu dsfy, jñxLrku rñk jñxLrku dj.k dks jkñuk tñ s fñol kã dk mRl oã

5-2-5 ukxfjd@xkgdka ea l UnñV ds Lrj dk eñ; kãdu vñš l ãBu ea pkVj ds dk; kño; u ds vñr% , oã okg; eñ; kãdu dk C; ksj k

pkVj vññ Hkñ fodfl r fd; k tk jgk gã vñš pkñjd eñ; kãdu vññ 'kq ughaf d; k x; kA



5-3 , I I h@, I Vh@fi NMk@ vYi I ङ; d I epk; kadsfy, dY; k.kdkjh mi k;

, I I h@, I Vh@fi NMk@vYi I ङ; d I epk; ka dk dY; k.k ifj"kn- ea, d iedk izak fpurk gA ifj"kn-ds fofHku I hFkka ea dh xbZ dkjDkbZ ds dN C; ks bl izkj gA

Ekgfunskd] Hkjrh; okfudh vud U/kku ,oa f'k{k ifj"kn- us ifj"kn- ds ed; ky; ds , I I h@, I Vh@vkschl h vf/kdkfj; k@depkfj; ka ds fy, mudh leL; kvka ij fopkj djus grr , I I h@, I Vh@vkschl h I Sy 1/2 kdk; r fuokj.k izdSB 1/2 dk xBu fd;k gA I fpo] Hk-ok-v-f'k-i- ds vksk I ङ; k 63&37@2010&vkbZl h, Q-vkj-bZ fnukad 23 Qjoh 2010 ds vud kj Jh vkdkj fl g] mi egkfunskd 1/2 k{k 1/2 us Qjoh 2010 dks , I I h@, I Vh@vkschl h dsfy, ed; I EIdZvf/kdkjh dk dk; Hkj xg.k dj fy; k gA Qjoh I sekpZ2010 dh bl vof/k ds nkjku , I I h@, I Vh@vkschl h dsfy, fuEu dY; k.k mik; fd, A

- 1- ekpZ 2010 ds efgus ea ukMy vf/kdkfj; ka ds I kFk frekgh cBd I EiUu gPZ
- 2- vkj{k.k vSj vU; I eB/kr fo"K; ka I s I EcfU/kr Hkj r I jdkj ds vksk k@funZkads vud kyv vSj jkVj dk j[kj[kko djus ds ekeyka dks n[kus okys vf/kdkfj; k@depkfj; ka ds fy, 23 ekpZ 2010 dks, d fnol h; if'k{k.k dk; De vk; kstr fd;k x; ka if'k{k.k ds fy, fjlkdZ ilZ ds : i ea Jh vkj- Mh- plnkI] funskd] jkVh; vud fpor tkfr vk; kx] y[kuA dks vkef=r fd;k x; ka

ou vud U/kku I hFkku] ngjknw %funskd] ou vud U/kku I hFkku] ngjknw us Jh xak fl g] ou I j{k d] iedk] I h I h o , Q vkbZ i Hkx] o-v-l a ngjknw dh v/; {krk ea ou vud akku I hFkku] ngjknw ds , I I h@, I Vh vf/kdkfj; k@depkfj; ka ds fy, mudh I el; kvka ij fopkj djus grr , I I h@, I Vh I Sy 1/2 kdk; r fuokj.k izdSB 1/2 dk i qxBu fd;k gA

izdSB I EIdZvf/kdkjh ds rgr dk; Zdj jgk gA I EIdZvf/kdkjh , I I h@, I Vh vSj vkschl h ds

ifrfuf/kRo dks I fuf'pr djus ds fy, I hFkku }kj ikS"kr jkVj dh tkp ,oa I akkku] tglavko'; d gkS djrs gA I EIdZvf/kdkjh I sle; & le; ij dkfeZ ,oa if'k{k.k foHkx }kj tkjh funZkads vud kj I hFkku ds vf/kdkfj; ka ea I Ec) ekxh'kZ fl) kJrkadksmi yC/k djkus dh vk'kk gA

ou vkupf'kdh ,oa o{k iztuu I hFkku] dks EcVij % , I I h@, I Vh@fi NMk@vYi I ङ; d I epk; kadsfy, dY; k.kdkjh mik; djus ds fy, , d ukMy vf/kdkjh dh fu; fDr dh xBA ou vkupf'kdh ,oa o{k iztuu I hFkku ds depkfj; kads ykk ds fy, fQVus I vj vSj cPka ds ikdZ ea I Hkj tS dY; k.kdkjh mik; Hk fd, x, A , d I kmpk; d gky dk uohudj.k fd;k x; k vSj depkfj; ka vSj muds ifjokjka ds mi; kx ds fy, dSVhu I fo/k I ftr dh xBA depkfj; ka ds mu cPka dks vokMZfn, x,] ftUgkusnI oha vSj kjpgota ckMZi jh{k eavPNsvad i ktr fd, A

dk"B foKku ,oa i kS] kfxdh I hFkku] caxykS % Mkw ch ,u- ekgUrHj Hk-o-I s I EIdZ vf/kdkjh us dk"B foKku ,oa i kS] kfxdh I hFkku ds , I I h@, I Vh vSj vkschl h izdSB dh , d cBd caxkbZ ftI ea caxykS vSj MGY; w ch- Mh- 1/2 sju 1/2 fo'kk[ki VVue ds I Hk , I I h , I Vh ,oa vkschl h depkfj; ka dks vkef=r fd;k x; ka ou vud akku dnt ghjckn ds , I I h , I Vh ,oa vkschl h depkfj; kadsfy, , d vyx cBd Hk I EiUu gPZ Jh jktk eHkd" .ku dh v/; {krk ds v/khu I ak ds fu; eka ds I w-hdj.k ds fy, , d I fefr xBr dh xBA I fefr fu; eka dks cukus dh i fO; k eagg

m".kdfVca/kh; ou vud U/kku I hFkku] tcyig % Hk-ok-v-f'k-i- us I epk; ds dY; k.k ds fy, , I I h , I Vh o vkschl h f'kdk; r fuokj.k izdSB dk i qxBu fd;k gA funskd] m".kdfVca/kh; ou vud U/kku I hFkku us I hFkku ds I EIdZvf/kdkjh ds ekxh'kZ ea, d ; fu; u cukus ds fy, vko'; d dne mBkus grr, d I fefr dk xBu fd;k gS vSj ; fu; u ds fu; eka dks cukus dk dke



ixfr ij gA ; fu; u ekpz ea gj I ky , d cBd dk vk; kst u djsxhA I febr us2009&10 ds nksj ku I LFkku ea , I I h@, I Vh@vkschl h I emk; kadhf fo | eku I keF; Zlks I phc) fd; kA

' ktd ou vuq U/kku I LFkku] tks'ki gj % I LFkku ea , d , I I h@, I Vh@fiNMk@vYi I I ; d I emk; dY; k.k dk xBu fd; k x; k gA MKW , I -vkbZvgen] oKkfud& Q] pkj vU; I nL; ka ds I kfk I febr ds v/; {k gA I febr , I I h@, I Vh@fiNMk@vYi I I ; d I emk; kadsdepkfj; kadsdY; k.k fo" k; ka vksj f' kdk; rka dksn[krh gA

fgeky; u ou vuq U/kku I LFkku] f' keyk % , I I h@, I Vh vksj vkschl h dsfy, vkj {k.k dsekeysea Hkjr I jdkj ds funkads mi; Dr vuqkyu dks I quf' pr djus dsfy, , e , p , vks, e ua 16@17@67& bLVS fnukad 10 vi sy 1968 W/h vksi h Vh vks, e ua 36022@5776

fnukad 27 ebZ1476½ ds vuq kj MKW ds , I - di ij dks igys gh I Ei dZ vf/kdkjh ds : i ea ukfer fd; k x; k gA bl I fio/kku ds vf/kns'k dks/; ku ea j [krsq] vf/kdkjhx.k bu I emk; kadsfy, mBk, tkusoky@ mBk, x, dY; k.k mik; kadsdk; Zea I yXu jgrsgA

Oku mRi kndrk I LFkku] jkph % fu; eka dks vare : i nsvksj xBu dk fu.kZ; djus dsfy, vki I ea fopkj djus gsrq 18 ekpz 2010 dks ou mRi kndrk I LFkku] jkph ea dk; jr I Hk , I I h@, I Vh@vkschl h depkfj; kadhf , d cBd I Ei lu gphA , I I h] , I Vh] vkschl h vf/kdkjh@depkjh] ou mRi kndrk I LFkku] jkph dsfy, , I I h@, I Vh@vkschl h izkSB ¼' kdk; r fuokj .k izkSB½ dk xBu fd; k x; kA

परीक्षित वार्षिक लेखा



G. K. PATET & CO.
CHARTERED ACCOUNTANTS

Tel : 0135-2658411
2330215
Fax : 0135-2659411
(R) 0135-6537028

Office :
Abhishek Tower
1st Floor,
14, Subhash Road,
DEHRA DUN - 248 001

AUDIT REPORT

We have audited the attached Balance sheet of **INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN** as at 31st March, 2010 and the annexed Income & Expenditure Account for the year ended on that date. These Financial Statements are the responsibility of the Council's Management. Our responsibility is to express an opinion on these financial statements based on our audit.

We have conducted our audit in accordance with the accounting, standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material mis-statements. An audit includes examining on test basis evidence supporting the accounting and disclosures in the financial statements. An audit also includes assessing the accounting principles and significant estimates made by the management as well as evaluating the overall financial statements presentation. We believe that our audit provides a reasonable basis of our opinion.

In our opinion and to the best of our information and according to the explanations given to us the said accounts give a true and fair view, read along with significant accounting policies as Schedule 24 and Notes on Accounts as Schedule 25 annexed herewith

- i) In the case of the Balance sheet of the State of Affairs of the above named Council as at 31st March, 2010
- ii) In the case of the Income & Expenditure Account, of the **SURPLUS** for the year ended on 31st March, 2010

For G.K.PATET & CO.,
CHARTERED ACCOUNTANTS



(G.K.Patet) Partner
Chartered Accountant.
M.No.15736

DATED : 01.09.2010
PLACE : DEHRA DUN



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
BALANCE SHEET AS AT 31ST MARCH 2010.

(Amount in Rs.)

	SCHEDULE	CURRENT YEAR	PREVIOUS YEAR
CAPITAL FUND AND LIABILITIES			
CAPITAL FUND	1	1,368,254,507	1,367,326,733
RESERVE AND SURPLUS	2	295,528,949	264,286,976
PENSION FUND / GPF / GSUS	3	1,121,289,084	1,125,033,295
SECURED LOANS AND BORROWINGS	4	NIL	NIL
UNSECURED LOANS AND BORROWINGS	5	NIL	NIL
DEFERRED CREDIT LIABILITIES	6	NIL	NIL
CURRENT LIABILITIES AND PROVISIONS	7	158,866,509	156,735,587
TOTAL		2,943,939,049	2,913,382,591
ASSETS			
FIXED ASSETS	8	1,368,254,507	1,367,326,733
INVESTMENTS - FROM FARMARKED/ENDOWMENT FUNDS	9	NIL	NIL
INVESTMENTS - OTHERS	10	NIL	NIL
CURRENT ASSETS, LOANS, ADVANCES ETC.	11	1,575,684,542	1,546,055,858
MISCELLANEOUS EXPENDITURE (to the extent not written off or adjusted)		NIL	NIL
TOTAL		2,943,939,049	2,913,382,591
SIGNIFICANT ACCOUNTING POLICIES	24		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	25		

Dr. G.S. RAWAT, (Director General, ICFRE)

M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

PRAMOD PANT (Assistant Director General, Administration, ICFRE)

D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

"AS PER OUR SEPARATE REPORT
OF EVEN DATE ANNEXED"
FOR G.K.PATEL & CO.
CHARTERED ACCOUNTANTS



(G.K. PATEL) Partner
Chartered Accountant
Membership No.15736
DATED: 01.09.2010
PLACE: DEHRADUN



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2010

(Amount in Rs.)

	Schedule	Current year	Previous year.
INCOME			
Income from sales / Subsidies	12	NIL	NIL
Grants / Subsidies	13	1,314,404,594	1,110,233,547
Fees / Subscriptions	14	55,276	780,390
Income from Investments	15	NIL	NIL
Income from Royalty, Publication etc.	16	367,078	536,774
Interest Earned	17	7,288,011	10,797,814
Other Income	18	45,129,151	30,006,901
Increase/(decrease) in stock of finished goods and works-in-progress	19	NIL	NIL
TOTAL (A)		1,367,244,110	1,152,355,426
EXPENDITURE			
Establishment Expenses	20	832,093,351	624,635,475
Other Administrative Expenses	21	297,725,814	270,143,690
Expenditure on Grants, Subsidies etc	22	82,185,000	116,542,834
Interest	23	NIL	NIL
Depreciation (Net Total at the year end corresponding to Schedule 8)		123,815,296	112,221,257
TOTAL (B)		1,335,819,461	1,123,543,256
Balance being excess Income over expenditure (A - B)		31,424,649	28,812,170
Transfer to Special Reserve (Specify each)		NIL	NIL
Transfer to General Fund		31,424,649	28,812,170
BALANCE BEING SURPLUS/(DEFICIT) carried to corpus/capital fund		NIL	NIL
SIGNIFICANT ACCOUNTING POLICIES	24		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	25		

Dr. G.S. RAWAT, (Director General, ICFRE)

M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

PRAMOD PANT (Assistant Director General, Administration, ICFRE)

D. CHATTOPADHYAY (Financial Advisor & Chief Accounts Officer, ICFRE)

VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

*AS PER OUR SEPARATE REPORT
OF EVEN DATE ANNEXED
FOR G.K. PATEL & CO.
CHARTERED ACCOUNTANTS





INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2010.

(Amount in Rs.)

SCHEDULE 1 - CAPITAL FUND:	Current Year		Previous Year	
	Balance as at the beginning of the year		1,367,326,733	
Add; Transfers from General Fund		125,087,020		91,918,875
Less; Depreciation		-123,815,296		-112,221,257
Less; Deletion of assets		-343,950		NIL
BALANCE AS AT THE YEAR END .		1,368,254,507		1,367,326,733

SCHEDULE 2 - RESERVES AND SURPLUS	Current Year		Previous Year	
	1. Capital Reserve		NIL	
As per last Account				
Addition during the year				
Less; Deduction during the year				
2. Revaluation Reserve		NIL		NIL
As per last Account				
Addition during the year				
Less; Deduction during the year				
3. Special Reserve		NIL		NIL
As per last Account				
Addition during the year				
Less; Deduction during the year				
4. General Fund				
As per last Account	264,286,976		217,323,532	
Addition during the year				
Excess income over Expenditure	31,424,649		78,812,170	
Depreciation	123,815,296		112,221,257	
Received from other Units	52,133,257		40,410,371	
Less;				
Transfer to Revenue ICFRE	-51,044,209		-42,561,478	
Transfer to Capital Fund	-125,087,020	295,528,949	-91,918,875	264,286,976
TOTAL		295,528,949		264,286,976

[Signature]
Dr. G.S. RAWAT, (Director General, ICFRE)

[Signature]
M.S. GARBYAL, (Deputy Director General, Administration, ICFRE)

[Signature]
PRAMODPANT, (Assistant Director General, Administration, ICFRE)

[Signature]
D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

[Signature]
VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF
THE BALANCE SHEET OF EVEN DATE
FOR G.K.PATEL & CO.,
CHARTERED ACCOUNTANTS



[Signature]
(G.K. PATEL) Partner
Chartered Accountant
Membership No.15736
DATED: 01.09.2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2010.

(Amount in Rs)

SCHEDULE 3, PENSION FUND/GPF/GSLIS	GPF	GSLIS	PENSION/ New Pension Scheme	Total
Opening balance of the Fund	226,805,003	179,884	898,048,379	1,125,033,296
Add:				
Excess of Income over Expenditure	4,422,946	10,633	80,673,468	85,107,047
Saving Fund under GSLIS	0	756,688	0	756,688
Death Claim	0	278,396	0	278,396
Received from PAO	6,981,565	0	11,603,065	18,584,630
Subscription/Contribution	88,099,285	1,576,502	897,216	90,573,003
New Pension Scheme	0	0	2,873,846	2,873,846
Misc Receipts	5,088	1,630	1,448	8,166
TOTAL (A)	326,313,916	2,803,733	994,097,422	1,323,215,072
Less:				
Death Claim Paid	0	278,396	0	278,396
Saving Fund under GSLIS	0	740,523	0	740,523
Subscription to LIC	0	1,469,803	0	1,469,803
GPF Advance Reimbursement	20,820,132	0	0	20,820,132
GPF Part/Final Payment	21,745,750	0	0	21,745,750
GPF Final Payment	8,113,634	0	0	8,113,634
Pensionary benefit Paid	0	0	117,732,841	117,732,841
DCRG	0	0	31,024,064	31,024,064
ISO Charges	0	0	845	845
TOTAL (B)	50,679,516	2,488,722	148,757,750	201,925,988
BALANCE AS AT THE YEAR END (A - B)	275,634,400	315,011	845,339,672	1,121,289,084

SUB-SCHEDULE OF SCHEDULE 3.

INCOME	GPF	GSLIS	Pension	New Pension	Total
Received from revenue-ICFRE	0	0	52,665,889	0	52,665,889
Bank Interest	4,422,946	10,633	27,931,340	76,239	32,441,158
TOTAL	4,422,946	10,633	80,597,229	76,239	85,107,047
EXPENDITURE	0	0	0	0	0
EXCESS OF INCOME OVER EXPENDITURE	4,422,946	10,633	80,597,229	76,239	85,107,047

Dr. G.S. RAWAT, (Director General, ICFRE)

M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

PRAMOD PANT (Assistant Director General, Administration, ICFRE)

D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF THE
BALANCE SHEET OF EVEN DATE
FOR G. K. PATEL & CO.,
CHARTERED ACCOUNTANTS



(G.K. PATEL) Partner
Chartered Accountant
Membership No. 18736
DATED: 01.09.2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2010.

(Amount in Rs)

SCHEDULE 4, SECURED LOANS AND BORROWINGS	CURRENT YEAR	PREVIOUS YEAR
1. Central Government	NIL	NIL
2. State Government (Specify)	NIL	NIL
3. Financial Institutions	NIL	NIL
a) Term Loan		
b) Interest accrued and due		
4. Banks;	NIL	NIL
a) Term Loan		
Interest accrued and due		
b) Other Loans (Specify)		
Interest accrued and due		
5. Other Institutions and Agencies	NIL	NIL
6. Debentures and Bonds	NIL	NIL
7. Others (Specify)	NIL	NIL
TOTAL	NIL	NIL

SCHEDULE 5, UNSECURED LOANS AND BORROWINGS	CURRENT YEAR	PREVIOUS YEAR
1. Central Government	NIL	NIL
2. State Government (Specify)	NIL	NIL
3. Financial Institutions	NIL	NIL
4. Banks;	NIL	NIL
a) Term Loan		
Interest accrued and due		
b) Other Loans (Specify)		
Interest accrued and due		
5. Other Institutions and Agencies	NIL	NIL
6. Debentures and Bonds	NIL	NIL
7. Others (Specify)	NIL	NIL
TOTAL	NIL	NIL

Dr. G.S. RAWAT, (Director General, ICFRE)

M.S. GARBYAL, (Deputy Director General, Administration, ICFRE)

PRAMOD PANT (Assistant Director General, Administration, ICFRE)

D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF
THE BALANCE SHEET OF EVEN DATE
FOR G.K. PATET & CO.,
CHARTERED ACCOUNTANTS



(G.K. PATET) Partner
Chartered Accountant
Membership No. 15736
DATED: 01.09.2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2010.

(Amount in Rs)

SCHEDULE 6, DEFERRED CREDIT LIABILITIES:	CURRENT YEAR		PREVIOUS YEAR	
	a) Acceptance secured by Hypothecation of capital equipment and other assets.		NIL	
b) Others.		NIL		NIL
TOTAL		NIL		NIL

SCHEDULE 7, CURRENT LIABILITIES AND PROVISIONS:	CURRENT YEAR		PREVIOUS YEAR	
	A- CURRENT LIABILITIES			
1. Acceptance		NIL		NIL
2. Sundry Creditors;		NIL		NIL
a) For goods				
b) Others				
3. Advances Received		NIL		NIL
4. Interest accrued but not due on		NIL		NIL
a) Secured Loans / Borrowings				
b) Unsecured loans/borrowings				
5. Statutory Liabilities;		NIL		NIL
a) Overdue				
b) Others				
6. Other Current Liabilities;				
a) Amount payable to Controller, ICFRE (As per annexure -A)	384,651		154,355	
b) Amount payable to PAO, New Delhi (As per annexure-B)	167,304		43,279	
c) Amount payable to Other Units (As per annexure-C)	118,635		223,016	
d) Amount payable to Others (As per annexure-D)	5,851,687		4,628,262	
e) Project Balances	143,463,899		143,452,945	
f) EMD/ Security deposit.	8,890,333	158,866,509	8,233,740	156,735,587
TOTAL (A)		158,866,509		156,735,587
B- PROVISIONS				
1. For Taxation		NIL		NIL
2. For Gratuity		NIL		NIL
3. Superannuation/Pension		NIL		NIL
4. Accumulated Leave Encashment		NIL		NIL
5. Trade Warranties/Claims		NIL		NIL
6. Others (Specify)		NIL		NIL
TOTAL (B)		NIL		NIL
TOTAL (A + B)		158,866,509		156,735,587

Dr. G.S. RAWAT, (Director General, ICFRE)

M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

PRAMOD PANT (Assistant Director General, Administration, ICFRE)

D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

**ANNEXED TO AND FORMING PART OF
 THE BALANCE SHEET OF EVEN DATE
 FOR G.K. PATEL & CO.,
 CHARTERED ACCOUNTANTS**



(G.K. PATEL) Partner
 Chartered Accountant
 Membership No.15736
 DATE: 01.09.2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2010.

(Amount in Rs)

ANNEXURE OF SCHEDULE-7.		
Annexure-A		
(Amount Payable to Controller)	CURRENT YEAR	PREVIOUS YEAR
GPF Subscription/Refund	303,089	87,379
GSLIS	2,220	345
Pension Contribution	66,190	57,590
New Pension Scheme	13,152	9,041
Total	384,651	154,355
Annexure -B		
(Amount Payable to PAO, New Delhi)	CURRENT YEAR	PREVIOUS YEAR
GPF Subscription/Refund	28,313	31,313
CGEIS	10,540	9,220
Any Other Recovery	128,451	2,746
Total	167,304	43,279
Annexure-C		
(Amount Payable To Other Units)	CURRENT YEAR	PREVIOUS YEAR
Saving Fund	64,071	61,071
Death Claim	44,013	44,013
Advance Recovery	0	114,371
CGEIS	551	551
Total	108,635	223,006
Annexure-D		
(Amount Payable to Others)	CURRENT YEAR	PREVIOUS YEAR
LIC	715,465	712,984
IDS/Service Tax/Professional Tax	0	48,582
Payable to Controller, ICFRE	3,987,908	3,186,789
Misc Recoveries	1,148,314	679,907
Total	5,851,687	4,628,262

Ghant
Dr. G.S. RAWAT, (Director General, ICFRE)

M. Garbyal
M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

Pranod Pant
PRAMOD PANT (Assistant Director General, Administration, ICFRE)

D. Chattopadhyay
D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

Vijay Dhasmana
VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF
THE BALANCE SHEET OF EVEN DATE
FOR G.K.PATEL & CO.,
CHARTERED ACCOUNTANTS



(G.K. PATEL) Partner
Chartered Accountant
Membership No.15736
DATED: 01.09.2010



INDIAN COUNCIL OF FORESTRY RESEARCH & EDUCATION, DEHRADUN SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2010.						
SCHEDULE-6-FIXED ASSETS						
DESCRIPTION	OPENING BALANCE AS ON 01/04/09	ADDITIONS	ADJUSTMENTS	GROSS BALANCE AS ON 31/03/10	DEPRECIATION	CLOSING BALANCE AS ON 31/03/10
PLAN ASSETS						
Land	5,201,020	0	0	6,201,020	0	6,201,020
Scientific Equipments	147,055,742	33,853,643	0	180,859,185	24,595,870	156,303,315
Furniture & Fixtures	10,773,430	9,898,659	0	11,677,289	1,274,276	13,404,213
Books & Journals	37,894,303	12,53,216	0	50,057,519	6,595,387	43,461,132
Vehicles	16,112,720	3,318,459	289,148	19,142,107	2,622,423	16,519,684
Building & Road	1,004,927,880	367,561,66	0	1,048,684,066	51,465,299	997,218,767
Office Equipments	115,725,129	863,643	54,802	1,16,533,964	17,415,321	99,118,643
Tools & Equipments	5,321,272	58,392	0	5,382,664	803,020	4,579,644
Electrical fittings	3,552,534	0	0	3,552,534	532,880	3,019,654
IT Equipments	14,764,709	52,174,982	0	46,939,691	18,511,320	28,428,371
TOTAL	1,367,326,733	125,087,020	343,950	1,492,069,803	123,815,296	1,368,254,507

NOTE: Depreciation on additions has been charged for half year

Dr. G.S. RAWAL, (Director General, ICFRE)

M.S. GARBAL, (Deputy Director General, Administration, ICFRE)

PRAMOD PANT, (Assistant Director General, Administration, ICFRE)

D. CHATTOPADHYAY, (Financial Adviser & Chief Accounts Officer, ICFRE)

VIJAY DHASMANA, (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF THE
BALANCE SHEET OF EVEN DATE
FOR G.K.PATEL & CO.,
CHARTERED ACCOUNTANTS



(G.K.PATEL) Partner
Chartered Accountant
Membership No. 15736
Dated: 01.04.2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2010.											
(Amount in Rs.)											
Particulars of Assets	Gross Block of Assets at Cost					Depreciation				Net Block	
	Cost/Variation as at 01.04.2009	Addition during the year	Deduction during the year	As at 31.03.2010	Depreciation upto 31.03.2009	Depreciation during the year	Adjustment	Total	As at 31.03.2010	As at 31.03.2009	
Land	6,201,020	0	0	5,201,020	0	0	0	0	6,201,020	6,201,020	
Scientific Equipment	277,553,081	33,862,445	0	3,18,08,524	130,809,579	24,505,870	0	155,505,209	156,303,315	147,045,742	
Furniture & Fixtures	21,834,488	3,898,659	0	25,733,147	11,256,058	1,272,776	0	12,228,834	13,404,313	10,778,520	
Books & Journals	109,130,661	12,163,216	0	121,293,877	71,256,558	6,595,387	0	77,852,245	43,461,132	37,884,903	
Vehicles	42,23,870	3,316,499	923,195	44,611,174	26,103,150	2,622,425	634,345	28,591,528	16,519,648	16,112,720	
Building & Road	1,460,862,928	38,736,186	0	1,499,618,514	450,834,448	51,465,399	0	502,299,747	947,218,767	1,009,927,886	
Office Equipments	344,036,168	863,615	185,646	347,213,175	278,311,045	17,415,321	131,834	245,594,532	99,118,613	115,735,123	
Tools & Equipments	18,117,189	58,392	0	18,175,581	12,792,917	805,020	0	13,993,927	4,379,644	5,324,272	
Electrical Fittings	12,498,736	0	0	12,498,736	8,546,202	532,880	0	9,279,082	3,019,654	3,552,334	
IT Equipments	21,166,334	32,174,982	0	53,341,016	6,401,525	18,511,320	0	24,812,645	28,428,371	14,764,709	
Total	2,313,617,575	125,587,020	1,109,829	2,437,594,766	946,290,842	123,815,296	765,879	1,069,340,259	1,368,254,507	1,567,326,735	

NOTE: Depreciation on additions has been charged for half year

Dr. C.S. RAWAT, (Director General, ICFRE)

M.S. GARBAL (Deputy Director General, Administration, ICFRE)

PRAMOD PATIL (Assistant Director-General, Administration, ICFRE)

D. CHATURVEDIYAV (Technical Adviser & Chief Accounts Officer, ICFRE)

VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXURE 10 AND FORMING PART OF THE
BALANCE SHEET OF EVEN DATE
FOR G.K.PATEL & CO.,
CHARTERED ACCOUNTANTS



(G.K.PATEL) Partner
Chartered Accountant
Membership No. 15756
Dated: 01.09.2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2010.

(Amount in Rs)

SCHEDULE 9, INVESTMENT FROM LARMARKED/ENDOWMENT FUNDS:	CURRENT YEAR	PREVIOUS YEAR
1. In Government Securities	NIL	NIL
2. Other approved Securities	NIL	NIL
3. Shares	NIL	NIL
4. Debentures and bonds	NIL	NIL
5. Subsidiaries and joint Venture	NIL	NIL
6. Others (to be specified)	NIL	NIL
TOTAL	NIL	NIL

SCHEDULE 10, INVESTMENTS- OTHERS:	CURRENT YEAR	PREVIOUS YEAR
1. In Government Securities	NIL	NIL
2. Other approved Securities	NIL	NIL
3. Shares	NIL	NIL
4. Debentures and bonds	NIL	NIL
5. Subsidiaries and joint Venture	NIL	NIL
6. Others (to be specified)	NIL	NIL
TOTAL	NIL	NIL

Shank
 Dr. G.S. RAWAT, (Director General, ICFRE)

W. K. D.
 M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

Pant
 PRAMOD PANT (Assistant Director General, Administration, ICFRE)

Chatthay
 D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

Dharmans
 VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF THE
INCOME EXPENDITURE A/C OF EVEN DATE
FOR G.K.PATET & CO.,
CHARTERED ACCOUNTANTS



Patet
 (G.K. PATET) Partner
 Chartered Accountant
 Membership No.15736
 DATED: 01.09.2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH 2010			
(Amount in Rs.)			
SCHEDULE 13, CURRENT ASSETS, LOANS, ADVANCES ETC:	CURRENT YEAR		PREVIOUS YEAR
A) CURRENT ASSETS:			
1. Inventories:		NIL	NIL
a) Stores and stores			
b) Loose Tools			
c) Stock-in-trade			
Finish goods			
Work-in-progress			
Raw Materials			
2. Sundry Debtors:		NIL	NIL
a) Debts outstanding for a period exceeding six months			
b) Others			
3. Cash balance in hand. (including cheques/drafts and imprest)		885,333	927,517
4. Bank Balances			
a) With Schedule Bank			
Fixed Deposit	1,029,772,968		1,087,901,628
Cash at Bank	404,374,531		319,029,798
FMD	1,780,319	1,435,927,818	1,534,946
b) With non-Schedule Bank		NIL	NIL
Fixed Deposit			
Cash at Bank			
FMD			
5. Post office Savings Accounts		NIL	NIL
TOTAL (A)		1,436,813,151	1,409,393,884
B. LOANS, ADVANCES AND OTHER ASSETS			
1. Loans		NIL	NIL
a) Staff			
b) Other Entities engaged in activities/objectives similar to that of the entity.			
c) Others (Specify).			
2. Advances and other amounts recoverable in cash or in kind or for value to be received.			
a) On Capital Account (As per annexure-B)	100,086,998		89,834,334
b) Prepayments	NIL		NIL
c) Others			
i) Staff Advances (As per annexure-F)	23,808,502		28,992,062
ii) Amount Recoverable from Controller, ICFRE (As per annexure-G)	9,890,826		10,903,819
iii) Amount Recoverable from PAO, New Delhi (As per annexure-H)	4,827,605		5,160,533
iv) Amount Recoverable from other Units, (As per annexure-I)	261,460	138,871,391	1,271,236
3. Interest Accrued:		NIL	NIL
a) On Investment from Earmarked/Endowment Funds			
b) On Investments Others			
c) On Loans and Advances			
d) Others			
TOTAL (B)		138,871,391	136,661,974
TOTAL (A + B)		1,575,684,542	1,546,055,858

Dr. G.S. RAWAT, (Director General, ICFRE)

M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

PRAMOD PANT (Assistant Director General, Administration, ICFRE)

D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

VIJAY DILASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF
THE BALANCE SHEET OF EVEN DATE
FOR G.K. PATET & CO.,
CHARTERED ACCOUNTANTS

(G.K. PATET) Partner
Chartered Accountant
Membership No.15736
DATE: 01/06/2010



**INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF BALANCE SHEETS AT 31ST MARCH 2010.**

(Amount in Rs.)

ANNEXURE OF SCHEDULE - 11		
Annexure-E		
Advance for Capital Works/Equipments	CURRENT YEAR	PREVIOUS YEAR
CPWD	480,281	NIL
CCU	99,40,334	89,834,334
Office Equipment	151,383	NIL
Total	100,086,998	89,834,334

Annexure-F		
(Staff Advance)	CURRENT YEAR	PREVIOUS YEAR
Forest Advance	1,295,562	6,416,437
Festival Advance	971,580	654,480
Car Advance	579,999	630,515
Scouter Advance	3,108,542	4,001,822
Cycle Advance	289,976	84,000
House Building Advance	8,289,100	9,081,489
TFA Advance	1,036,703	948,269
LIC Advance	2,404,818	992,266
Day Advance	166,525	177,170
Medical Advance	604,815	1,383,920
Computer Advance	716,100	765,800
TA Advance	1,650,365	1,162,849
Other Advances	2,692,017	2,693,064
Total	23,806,502	28,992,062

Annexure-G		
(Amount Recoverable from Controller, ICFRE)	CURRENT YEAR	PREVIOUS YEAR
GPF Advance	2,068,773	2,105,525
DCRG	4,447,074	6,111,583
Provisional Pension	188,130	188,130
GPF Part/Final Payment	3,186,829	2,498,581
Total	9,890,826	10,903,819

Annexure-II		
(Amount Recoverable from PAO, New Delhi)	CURRENT YEAR	PREVIOUS YEAR
GPF Advance	1,647,414	1,983,120
CCEIS	963,856	963,856
DCRG	1,992,799	1,899,011
Provisional Pension	282,136	282,136
GPF Part/Final Payment	26,400	26,400
Total	4,822,605	5,160,533

Annexure-I		
(Amount Recoverable from other Units)	CURRENT YEAR	PREVIOUS YEAR
DNO		
(Premium for the Month of March)	168,944	168,944
Deputation & Others	12,168	12,168
Service Taxes	81,178	87,894
International Workshop	0	1,500,000
GPF Subscription	2,220	2,220
Total	264,460	1,771,226

[Signature]
Dr. G.S. RAWAT, (Director General, ICFRE)

[Signature]
M.S. GARBHAI (Deputy Director General, Administration, ICFRE)

[Signature]
PRANOD PANT (Assistant Director General, Administration, ICFRE)

[Signature]
D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

[Signature]
VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF
THE BALANCE SHEET OF EVEN DATE
OF M/S. PATIL & CO.,
CHARTERED ACCOUNTANTS

[Signature]
[G.S. PATIL] Partner
Chartered Accountant
Membership No.15736
DATED: 01.09.2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31st MARCH 2010.

(Amount in Rs)

SCHEDULE 12. INCOME FROM SALES/SERVICES	CURRENT YEAR	PREVIOUS YEAR
1) <u>Income from sales</u>	NIL	NIL
a) Sales of Finished Goods		
b) Sales of Raw Material		
c) Sale of Scraps		
2) <u>Income from Services</u>	NIL	NIL
a) Labour and Processing Charges		
b) Professional / Consultancy Charges		
c) Agency Commission and Brokerage		
d) Maintenance Services (Equipment/Property)		
e) Others (Specify)		
TOTAL	NIL	NIL

SCHEDULE 13. GRANTS/SUBSIDIES. (Irrevocable Grants & Subsidies Received)	CURRENT YEAR		PREVIOUS YEAR	
1) <u>Central Government</u>				
a) Plan (General Component)	1,049,300,000		879,300,000	
b) Non-Plan (General Component)	210,000,000		176,900,000	
c) Plan (North East)	<u>50,000,000</u>	1,309,300,000	<u>50,000,000</u>	1,106,200,000
2) <u>State Government</u>			NIL	
3) <u>Government Agencies</u>			NIL	
4) <u>Institutions/Welfare Bodies</u>			NIL	
5) <u>Institutional Organisations</u>			NIL	
6) <u>Others (Specify)</u>				
a) Sharing Cost (KVS)		5,104,594		4,033,547
TOTAL		1,314,404,594		1,110,233,547

Dr. G.S. RAWAT, (Director General, ICFRE)

M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

PRAMOD PANT (Assistant Director General, Administration, ICFRE)

D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF THE
INCOME EXPENDITURE A/C OF EVEN DATE
FOR G.K.PATEL & CO.
CHARTERED ACCOUNTANTS

(G.K. PATEL) Partner
 Chartered Accountant
 Membership No.15736
 DATED: 01.09.2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31st MARCH 2010.

(Amount in Rs)

SCHEDULE 14, FEES/SUBSCRIPTION.	CURRENT YEAR	PREVIOUS YEAR
1) Entrance Fees	NIL	NIL
2) Annual Fees/Subscription	NIL	NIL
3) Seminar/Program Fees	NIL	NIL
4) Consultancy Fees	35,276	780,390
5) Other (Specify)	NIL	NIL
TOTAL	55,276	780,390

SCHEDULE 15, INCOME FROM INVESTMENTS. (Income on Invest from earmarked/Endowment Funds transferred to Funds)	Investment from Earmarked Fund		Investment-Others	
	Current Year	Previous Year	Current Year	Previous Year
1) Interest	NIL	NIL	NIL	NIL
a) On Govt Securities				
b) Other Bonds/Debtentures				
2) Dividends	NIL	NIL	NIL	NIL
a) On Shares				
b) On Mutual Fund Securities				
3) Rents	NIL	NIL	NIL	NIL
4) Others (Specify)	NIL	NIL	NIL	NIL
TOTAL	NIL	NIL	NIL	NIL

G. Rawat
 Dr. G.S. RAWAT, (Director General, ICFRE)

M. S. Garbyal
 M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

Pramod Pani
 PRAMOD PANI (Assistant Director General, Administration, ICFRE)

D. Chattopadhyay
 D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

Vijay Dhasmana
 VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF THE
 INCOME EXPENDITURE A/C OF EVEN DATE
 FOR G.K. PAIET & CO.,
 CHARTERED ACCOUNTANTS



G.K. Paiet
 (G.K. PAIET) Partner
 Chartered Accountant
 Membership No.15736
 DATED: 01.09.2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN		
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31st MARCH 2010.		
(Amount in Rs)		
SCHEDULE 16, INCOME FROM ROYALTY, PUBLICATION ETC.	CURRENT YEAR	PREVIOUS YEAR
1) Income from Royalty	NIL	NIL
2) Income from Publications	367,078	536,774
3) Others (Specify)	NIL	NIL
TOTAL	367,078	536,774
SCHEDULE 17, INTEREST EARNED.	CURRENT YEAR	PREVIOUS YEAR
1) Interest on deposit with Schedule Bank	6,003,785	10,062,533
2) Interest on deposit with Non-Schedule Bank	NIL	NIL
3) On Loans/Advance		
a) Employees/Staff	1,784,226	735,261
b) Others	NIL	NIL
4) Interest on debtors and other Receivables	NIL	NIL
TOTAL	7,288,011	10,797,814

Dr. G.S. RAWAT, (Director General, ICFRE)

M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

PRAMOD PANT (Assistant Director General, Administration, ICFRE)

D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF THE
INCOME EXPENDITURE A/C OF EVEN DATE

FOR G.K. PATIL & CO.,
CHARTERED ACCOUNTANTS
(G.K. PATIL) Partner
Chartered Accountant
Membership No.15736
DATED: 01.09.2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31st MARCH 2010

(Amount in Rs)

SCHEDULE 18, OTHER INCOME,	CURRENT YEAR	PREVIOUS YEAR
1) Profit on sale / Disposal of Assets	NIL	NIL
a) Owned Assets		
b) Assets Acquired out of Grants or free of cost		
2) Export Incentives Realized	NIL	NIL
3) Miscellaneous Income	45,129,151	30,006,901
TOTAL	45,129,151	30,006,901

SCHEDULE 19, INCREASE/(DECREASE) IN STOCK OF FINISHED GOODS & WORK IN PROGRESS.	CURRENT YEAR	PREVIOUS YEAR
a) Closing Stock	NIL	NIL
- Finished Goods		
- Work-in-Progress		
b) Less: Opening Stock	NIL	NIL
- Finished Goods		
- Work-in-Progress		
NET INCREASE/DECREASE (a-b)	NIL	NIL

SCHEDULE 20 ESTABLISHMENT EXPENSES,	CURRENT YEAR	PREVIOUS YEAR
a) Salaries & allowances		
i) Plan (General Component)	601,597,284	448,049,031
ii) Non-Plan(General component)	177,830,178	140,386,444
b) Contribution to Provident Fund	NIL	NIL
c) Contribution to Other Funds(Specify)		
i) Revenue Paid to Pension Fund out of own Revenue, ICFRE	52,665,889	36,200,000
d) Staff Welfare Expenses	NIL	NIL
e) Expenses on Employees Retirement and Terminal Benefit	NIL	NIL
f) Other (Specify)	NIL	NIL
TOTAL	832,093,351	624,635,475

G.S. Rawat
 Dr. G.S. RAWAT, (Director General, ICFRE)

M.S. Garbyal
 M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

Pramod Pant
 PRAMOD PANT (Assistant Director General, Administration, ICFRE)

D. Chattopadhyay
 D. CHATTOPADHYAY (Financial Advisor & Chief Accounts Officer, ICFRE)

Vijay Dhasmana
 VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

FOR G.K.PATEL & CO,
 CHARTERED ACCOUNTANTS

G.K. Patel
 (G.K. PATEL) Partner
 Chartered Accountant
 Membership No.15736



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31st MARCH 2010.

(Amount in Rs)

<u>SCHEDULE 21, OTHER ADMINISTRATIVE EXPENSES ETC.</u>	<u>CURRENT YEAR</u>	<u>PREVIOUS YEAR</u>
1) Traveling Expenses	16,812,433	17,427,351
2) Fuel Charges (Vehicle)	6,302,092	7,363,195
3) Repairs and Maintenance(Vehicle)	4,256,483	4,739,644
4) Road Taxes and Insurance	1,089,380	1,029,006
5) Electricity Charges	27,641,138	27,091,507
6) Telephone Charges	4,947,337	4,797,352
7) Repair and Maintenance of Equipments	21,032,251	15,693,555
8) Water Charges	2,393,598	2,070,811
9) Stationeries	2,612,278	2,717,201
10) Contingency Expenditure	36,840,336	27,609,891
11) Legal and Consultancy Charges	2,916,311	3,772,753
12) Municipal Tax	2,147,265	1,450,231
13) Medical / X-Rays	6,089,944	5,542,551
14) Liveries	211,097	351,706
15) Postage/Stamp Charges	788,758	740,353
16) Advertisement	2,394,568	1,294,440
17) Seminars/Conference/ IIRD Expenses	7,599,461	6,172,685
18) News Paper Bill	414,792	405,925
19) Extension - Normal	1,648,242	1,609,730
20) Extension- VVK & Dema Villages	12,563,864	10,987,034
21) Rent of Building and Equipment	401,808	519,378
22) Fellowship/Scholarship/ Cash award	14,228,487	4,462,463
23) Printings and Publication	1,428,548	1,598,130
24) Field Research Expenses	30,372,579	23,554,608
25) M & S (Lab Contingency)	8,691,734	8,219,057
26) Minor Works and Maintenance	71,246,776	64,323,872
27) Expenses on North East	10,624,951	24,299,258
TOTAL	297,725,814	270,143,690

<u>SCHEDULE 22 - EXPENDITURE ON GRANTS, SUBSIDIES ETC</u>	<u>CURRENT YEAR</u>	<u>PREVIOUS YEAR</u>
a) Grants given to Institutions/Organisation		
i) Grant to KVS	37,185,000	36,614,327
ii) Grant to Universities	45,000,000	49,928,507
iii) Grant to Pension Fund,ICFRE	NIL	30,000,000
b) Subsidies given to Institutions/Organisation	NIL	NIL
TOTAL	82,185,000	116,542,834

<u>SCHEDULE 23, INTEREST</u>	<u>CURRENT YEAR</u>	<u>PREVIOUS YEAR</u>
a) On Fixed Loans	NIL	NIL
b) On Other Loans (including Bank Charges)	NIL	NIL
c) Others (Specify)	NIL	NIL
TOTAL	NIL	NIL

Dr. G.S. RAWAT, (Director General, ICFRE)

M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

PRAMOD PANT (Assistant Director General, Administration, ICFRE)

D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF
 THE BALANCE SHEET OF EVEN DATE
 FOR G.K.PATEL & CO.
 CHARTERED ACCOUNTANTS

(G.K. PATEL) Partner
 Chartered Accountant
 Membership No.15736
 DATED: 01/09/2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2010.

SCHEDULE 24, SIGNIFICANT ACCOUNTING POLICIES:

1 ACCOUNTING CONVENTION.

The Institute follows cash basis system of accounting, as management policy.

2 FIXED ASSETS.

The fixed assets on written down value as per Schedule 8 are annexed with balance sheet, the management have also compiled schedule 8-A, of assets showing the gross value of the fixed assets and these have not been verified by us.

3 DEPRECIATION.

Depreciation during the year was charged on Written Down Value Basis (WDV) method as per the rates prescribed in Income Tax Act 1961 and routed through Income and Expenditure Account. The amount of depreciation has been added to General Fund and deducted from Capital Fund to match the Fixed Assets and Capital Fund balance.

4 GOVERNMENT GRANTS & SUBSIDIES.

As per consistent accounting practice Government Grants are recognized in the financial Statements as and when received i.e. on realization basis.

5 RETIREMENT BENEFITS.

Since the books of accounts are being maintained on cash basis no provision for liabilities like retirement benefits if any is being made.


Dr. G.S. RAWAT, (Director General, ICFRE)


M.S. GARBYAL (Deputy Director General, Administration, ICFRE)


PRAMOD PANT (Assistant Director General, Administration, ICFRE)


D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)


VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF THE
BALANCE SHEET & INCOME EXPENDITURE
ACCOUNT OF EVEN DATE
FOR G.K. PATEL & CO.,
CHARTERED ACCOUNTANTS




(G.K. PATEL) Partner
Chartered Accountant
Membership No.15736
DATED: 01.09.2010



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION, DEHRADUN
SCHEDULES FORMING PART OF ACCOUNTS FOR THE YEAR ENDED 31st MARCH 2010.

SCHEDULE 25, CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS

1 CONTINGENT LIABILITIES.

No provision for contingent liabilities, if any has been done in the books of accounts.

2 TAXATION.

As informed to us, the organisation is registered u/s 12AA of Income Tax Act 1961 and exempt from Income tax as per the provisions of the act.

3 PROJECT BALANCE.

The opening balance of units, balance outstanding under various projects and inter unit balances are subject to confirmation & reconciliation.

4 PENSION FUND.

The amount recoverable from controller has been arrived on the basis of data produced by the units and after reconcile the same with the books of the controller pension cell.

5 Grants in aid Non-Plan (General Component) received during the year includes Rs 1.00 Crore pertaining to the Financial year 2008-2009.

6 During the year, Advance to CCU to the extent of Rs 354.60 lacs (North East) has been capitalised by the organisation on the basis of Statement of work wise expenditure provided by CCU.

7 Corresponding figures for the previous year have been regrouped / rearrange suitably as far as practicable in the new format of Financial Statements for the Central Autonomous Bodies provided by the Comptroller and Auditor General of India.

8 Schedules 1 to 25 are annexed to and form an integral part of the Balance Sheet as at 31st March 2010 and the Income and Expenditure Account for the year ended on that date.

Dr. G.S. RAWAT, (Director General, ICFRE)

M.S. GARBYAL (Deputy Director General, Administration, ICFRE)

PRAMOD PANT (Assistant Director General, Administration, ICFRE)

D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)

VIJAY DHASMANA (Establishment & Accounts Officer, ICFRE)

ANNEXED TO AND FORMING PART OF THE
BALANCE SHEET & INCOME EXPENDITURE
ACCOUNT OF EVEN DATE
FOR G. K. PATEL & CO.,
CHARTERED ACCOUNTANTS



(G. K. PATEL) Partner
Chartered Accountant
Membership No. 15736
DATED: 01.09.2010



RECEIPTS		PAYMENTS		TOTAL AMOUNT
RECEIPTS	AMOUNT	TOTAL AMOUNT	PAYMENTS	AMOUNT
OPENING BALANCE AS ON 1-4-2008				
To Cash in Hand			NCN PLAN	
Name of Component			By Salaries (Technical Staff)	106,633,883
Plan (G.C.)	927,519		By Salaries (Non Technical Staff)	7,293,315
Plan (Research)			By Salaries (Research KV3)	28,785,000
Non-Plan (G.C.)		927,519		206,716,198
			Plan (General Components)	
To Cash at Bank			By Salaries to KVSI(90% Awardees)	410,419,446
Ac. No. & Name of Component			By Salaries (Technical Staff)	191,177,838
Plan (G.C.)	302,233,653		By Salaries (Non Technical Staff)	10,043,060
Plan (Research)			By - E. (Technical Staff)	6,787,343
Non-Plan (G.C.)		302,233,653	By - E. (Non Technical Staff)	
To Earnest Money	6,787,270		By O.E. (Technical)	
North East	1,534,540		Maintenance of Vehicle	
To FDRs			- Fuel	6,302,022
Ac. No. & Name of Component			- Repair	4,259,483
Plan (G.C.)	1,084,101,628		- Road Taxes / Insurance	1,088,360
Plan (Research)	5,800,000		Electricity Charges	27,541,158
		1,089,901,628	Telephone charges	4,947,337
Grants-in-Aid			Maintenance of Equipments	
To Plan (General Component)			- Scientific	3,387,961
Less Paid to Centre			- Office	5,013,082
To Plan DCC (Edu)			- I.T. Equipments / Services	32,949,208
Less Paid to Centre			Others	
To Non-Plan (General Component)			- Water Charges	2,392,868
To Non-Plan (KVSI)	181,270,000		- Stationery	2,324,278
To North East	26,795,000		- Contingency Expenditure	36,800,336
To Salary to Coal	50,000,000		- Legal / Consultancy charges	2,313,314
To Revenue Receipt from D.Os			- Municipal Tax	2,167,965
To Revenue Receipt Payable to DGCFRE			- Medicines / X-ray	6,085,624
To Amount Received from DG CFRE Revenue			- Lenses	211,087
		1,309,370,000	- Post / Stamp Charges	789,758
			- Advertisement	2,394,668
			- Seminar / Conference / HRD	7,595,461
			- Newspaper Bill	414,782
			- Extension - Normal	1,949,247
			- V.V.K. & Dena Villages	12,553,864
			- Rent building / Equipment	201,800
				144,381,106
			Plan (Research)	
			By Fellowship/Scholarship/Awards	14,228,487
			Printings & Publication	1,428,348
			Field Research Expenses	30,372,579
			By M & T (Lab Centrifuge)	8,381,734
			By Minor Works/Maintenance	71,248,278
			Conveyance Advances	
			HRA	
			By Building & Roads	3,286,168
				128,050,810
			By Equipments	
			Scientific Equipments	30,853,812
			Office Equipments	375,862
			I.T. Equipments/Services	31,375,791
			Tools & Equipment	58,392
			Furniture & Fixture	2,460,141
			Books & Journals	12,165,218
			Vehicles	3,216,499
			By Grants to Universities	45,100,000
				179,940,893

-1 SEP 2010



RECEIPTS		AMOUNT	TOTAL AMOUNT	PAYMENTS	AMOUNT	TOTAL AMOUNT
To Revenue Receipts Payable to own Revenue Account No.			18,431,529	North East Plan Equipments / Vehicle Expenses Incurred	5,387,001 10,624,951	16,011,952
To Securities / EMD Plan (IC) Plan (Res)	3,071,038			By Advance Payments CCU - North East HRA Joint CPWD NE Through Inst./Sec/Cell etc	45,081,000	45,081,300 450,281
GRANT TO UNIVERSITY:				By Advance Payments Scientific Equipments Office Equipments IT Equipments Furniture & Fixture Books & Journals	151,383	151,383
To Reimbursement from PAC (F) New Delhi				To Revenue Receipts paid to own Revenue Account No.		16,630,310
ICFRE				By Revenue Receipts paid to D.G. ICFRE		51,044,203
GP Advance	5,120,500			By Revenue Receipts paid to Controller ICFRE		52,885,883
CGES				By EMD/Security Refunded		2,414,445
DCRG	248,475					
Provisional Pension						
GP Part/Full Payments (Group D)						
To Reimbursement from Controller, ICFRE						
GP Advance	20,957,888			By Payments made on Behalf of PAC (F) New Delhi		4,776,784
DCRG	35,182,437			GP Advance		
Provisional Pension				CGES		
GP Part/Full Payments (Group D)	250,800			DCRG		
To Recoveries from Staff on behalf of PAC (F), New Delhi				GP Part/Full Payments (Group D)		55,386,112
GP Subscription	8,170,254					
Refund of GP Advance	1,952,885			By Payment made to PAC (F) on behalf of Staff		
CGES	80,336			GP Subscription		8,173,454
House Building Advance	7,234			Refund of GP Advance		1,952,885
Interest on House Building Advance	14,200			CGES		79,079
Car Advance				House Building Advance		7,234
Interest of Car Advance				Interest on House Building Advance		14,200
Scooter Advance				Car Advance		
Interest of Scooter Advance				Interest of Car Advance		
Etc. (If any society)	125,795			Scooter Advance		
				Interest of Scooter Advance		
				Etc. (If any society)		90,125,528



-1 SEP 2010



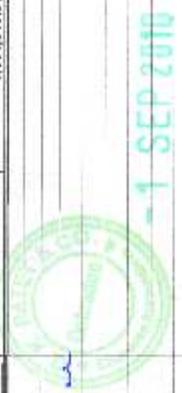
RECEIPTS	AMOUNT	TOTAL AMOUNT	PAYMENTS	AMOUNT	TOTAL AMOUNT
To Receipt from Staff on behalf of other Offices			By Payments made to other offices on Behalf of Staff		
GPF Subscription / Refund	5,571,530		GPF Subscription / Refund	5,308,141	
COEGIS	88,350		H.E.A.	88,280	
H.E.A.	208,290		Interest on House Building Advance	211,060	
Interest on House Building Advance	333,626		Car Advance	232,425	
Car Advance	13,300		Interest of Car Advance	13,960	
Interest of Car Advance	150,205		Scooter Advance	153,205	
Scooter Advance	12,750		Interest of Scooter Advance	9,250	
Interest of Scooter Advance		7,015,838	Etc. (Please specify)	852,133	7,162,489
Etc. (Please specify)	734,718				
To Recoveries from Staff on Behalf of Controller, ICFRE			By Payments to Controller, ICFRE on Behalf of the Staff		
GPF Subscription	79,813,547		GPF Subscription	72,419,297	
Refund of GPF Advances	11,813,857		Refund of GPF Advances	1,792,137	
SSLS	1,544,798		SSLS	542,924	
Pension Contribution	757,507		Pension Contribution	743,302	
New Pension Scheme	1,226,207		New Pension Scheme	1,222,096	
Employer's Share	337,543	88,697,355	Employer's Share	631,648	
			DORO		88,367,069
To Recoveries of Advances from Staff on Behalf of, ICFRE			By Advances paid to Staff		
Forest Advance	78,782,075		Forest Advance	73,631,231	
Field Advance	2,037,460		Field Advance	2,354,550	
Car Advance	60,616		Car Advance		
Interest Car Advance			Interest Car Advance	596,824	
Scooter Advance	1,480,646		Scooter Advance	942	
Interest Scooter Advance			Interest Scooter Advance	6,000	
Cycle Advance	33,005		Cycle Advance	261,000	
Interest Cycle Advance			Interest Cycle Advance	530,656	
House Building Advance (H.E.A)	1,282,975		House Building Advance (H.E.A)		
Interest House Building Advance			Interest House Building Advance		
"A" Advance	2,000,188		"A" Advance	21,671,859	
LTC Advance	5,981,075		LTC Advance	6,778,825	
TTA Advance	435,571		TTA Advance	1,524,845	
Medical Advance	2,635,505		Medical Advance	1,896,400	
Pay Advance	201,352		Pay Advance	186,757	
Computer Advance	265,200		Computer Advance	238,900	
Etc. (Please specify)	2,199,637	116,307,223	Etc. (Please specify)	2,198,950	117,872,659
To Recoveries from Staff on behalf of Offices			By Payments made to other Offices on Behalf of Staff		
By Recoveries Income Tax (Salary)	53,471,583		By Recoveries Income Tax (Salary)	53,459,014	
TDS (Contract/Fin's, Service Tax)	9,100,359		TDS (Contract/Fin's, Service Tax)	8,338,289	
Professional Tax	467,434		Professional Tax	457,250	
PPF	205,832		PPF	206,322	
L.C	2,060,591		L.C	2,838,180	
EMD / Securities	3,300,514		EMD / Securities	1,617,203	
Court Attachment			Court Attachment		
Hind Transferrer			Hind Transferrer		
Quarter Rent	650		Quarter Rent	30,955	
Staff Association			Staff Association		
Etc. (Please specify)	53,610,828	1,35,021,769	Etc. (Please specify)	31,517,589	88,350,752
Service Tax Other Unit			Any other Payment (Please specify)		24,716,547
		10,200	Service Tax Other Unit		7,434



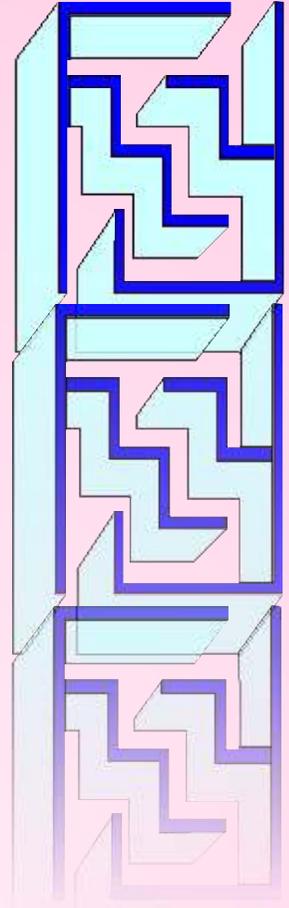
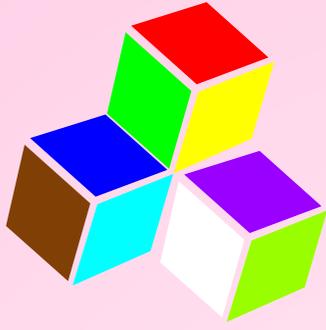


वार्षिक प्रतिवेदन 2009-2010

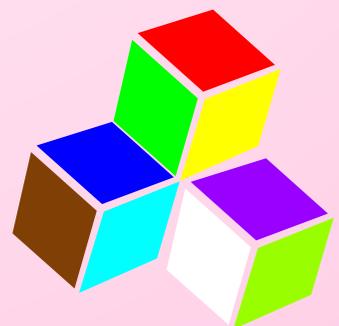
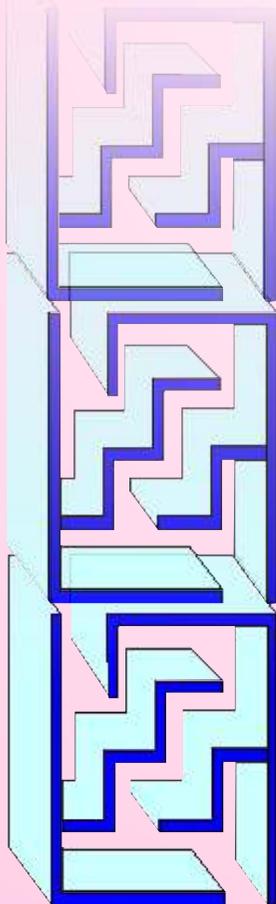
RECEIPTS	AMOUNT	TOTAL AMOUNT	PAYMENTS	AMOUNT	TOTAL AMOUNT
To: Project Receipts / Revenue Receipt		229,545,265	By Project Paymaster/Revenue		229,545,265
Amount Received by Controller ICFRE			Amount paid by Controller ICFRE		
Amount received from PAO (F) on account of GFP transfer	8,681,585		By GFP reimbursement to DDO's	20,820,132	
Amount received from various DDO's on account of GFP subscription	86,080,287		By GFP Part Final payment	21,145,780	
Amount received from Officers on account of refund of excesses GFP Payments			By GFP Final payment	11,115,824	
Closer of New Pension Accounts Bank & FDR Interest	2,673,845		Death Claims Paid	272,586	
Amount received on account of Service Funds under GSLIS	92,441,153		Saving Fund Paid	740,923	
Amount received on account of Death Claims under GSLIS	733,600		Amount of premium to LIC for GSLIS Subscriber	1,469,803	
Subscription from various DDO's	275,389		Reimbursement of D.D.R., Pension to various DDO's	17,732,841	
Pro-rata Honorary benefit received from P.A.G (F)	1,375,502		ISC Charges	31,024,054	
Amount received from various DDO's on account of Pension Contribution	1,500,085			645	201,925,999
Amount received on account of excesses	597,213				
Amount received from other Department on account of Pensionary benefits Govt. Securities					
FDR Interest & Interest					
Misc.	3,168	14,516,807			
GRANT TOTAL:		3,684,945,012	GRANT TOTAL:		3,684,945,012



Dr. G.S. RAWAT, (Director General, ICFRE)
G.S. Rawat
 M.S. GARBAL (Deputy Director General, Administration, ICFRE)
M.S. Garbal
 PRAMOD PANT (Assistant Director General, Administration, ICFRE)
Pramod Pant
 D. CHATTOPADHYAY (Financial Adviser & Chief Accounts Officer, ICFRE)
D. Chattopadhyay
 VIJAY DEASMANA (Establishment & Accounts Officer, ICFRE)
Vijay Deasmana



परिशिष्ट





भारतीय वानिकी अनुसन्धान एवं शिक्षा परिषद् एवं इसके संस्थानों में सूचना का अधिकार अधिनियम 2005 के अधीन लोक सूचना अधिकारियों एवं अपीली प्राधिकारियों के नाम एवं पते

ed; ky; @l & Fkku	, i hy/ i kf/kdkjh	ykdl ipuk vf/kdkjh	vkofVr fo"k; oLrq
Hkjr; okfuch vuq U/kku , oaf'k{k ij"kn- Mkd?kj & U; wOKK&V] ngjknw&248 006	MKW xksohn fl g jkor egkfun'skd] Hk-ok-v-f'k-i- nijHk" %0135&2759382(2224855 QDI % 0135&2755353 b&esy : dg@icfre.org	MKW I dkaq xtrk I fpo HkEokEvef'KEiE nijHk" %0135&2758614 2752933%u% QDI % 0135&2750298 b&esy : sudhanshu@icfre.org sec@icfre.org	HkEokEvef'KEiE ed; ky; ngjknw I s I EcflVkr I Hh ekeys
ou vuq U/kku I & Fkku Mkd?kj & U; wOKK&V] ngjknw&248 006	MKW , I E, I E ush fun'skd nijHk" %0135&2224444] 2755277%dk% b&esy %negiss@icfre.org dir_fri@icfre.org	Jh ,E , I E jkor I eg I elo; d %u% nijHk" %0135&2224316] 2752670%dk% b&esy %groupco_fri@icfre.org	vuq U/kku , oay{k I s I EcflVkr I Hh ekeys
		Jh I; kj plh dy I fpo] o-v-l a nijHk" %0135&2224222 2752678 QDI %0135&2756865 b&esy %registrar_fri@icfre.org	LFkiuk izkl u rFk vU; I Hh ekeys
		Jh , - ds f=i kH dy I fpo] o-v-l a I e fo'ofok; ky; nijHk" %0135&2751826] 2224439 %dk% b&esy %tripathiak@icfre.org	o-v-l a I e fo'ofok; ky; I s I EcflVkr I Hh ekeys
Lkftd okfuch rFk ikj&iqLFk uk dlnz %h, I -, Q-b%vkj-% 3@1 yktlkr jk; jk% U; w dVjk] bykqckn & 211002	MKW , I E, I E ush fun'skd nijHk" %0135&2224444] b&esy %negiss@icfre.org dir_fri@icfre.org	Jh ,E , I E jkor I eg I elo; d %u% nijHk" %0135&2224316] 2752670 b&esy %groupco_fri@icfre.org	I kftd okfuch , oa ikj&iqLFk uk dlnz bykqckn I s I EcflVkr I Hh ekeys
ou vkufi'kdh , oao{k iztuu I & Fkku ikEckDI uE&1061 ou ifj I j vkj , I ije] dks EcVij&641002	MKW , u- d".kd%kj fun'skd nijHk" %0422&2484100 2431540 QDI %0422&2430549 b&esy%dir_ifgtb@icfre.org M%SV u- %2431942	Jh Vh- ih- j?kqkFk I eg I elo; d %u% nijHk" %0422&2484102	ou vkufi'kdh , oao{k iztuu I & Fkku] dks EcVij I s I EcflVkr I Hh ekeys



ed; ky; @l lFkku	, si hyv/ i kf/kdkjh	ykdl ipuk vf/kdkjh	vkofVr fo"k; oLrq
<p>dk'B foKku ,oa i ks'k dxdh l lFkku i ksvk%eky'soje- ou vuq U'ku iz ks'kkyk cayk'g & 560 003 duk'ld</p>	<p>Jh , l-l-h tkskh fun'skd njh'k'k %080&23341731 23345965 b&esy %scjoshi@icfre.org dir_iwst@icfre.org</p>	<p>Mkw ch , u- ekglrh l eg l elb; d %u'g% njh'k'k %080&23340115 22190104</p>	<p>dk'B foKku ,oa i ks'k dxdh l lFkku cayk'g vk'g ou vuq U'ku d'bnz ghj'kckn l s l EcfU/kr l Hh ekeys</p>
<p>ou vuq U'ku d'bnz Myki Yyh'g d'heis' %k'v'k'g% ghj'kckn & 500 014</p>			
<p>m".kdfVcdk; ou vuq U'ku l lFkku i ksvk'g & vkj , Q-vkj-l h e'byk j'k'g t'cyij & 482 021</p>	<p>Mkw , - ds e'by fun'skd njh'k'k % 0761&4044002] 4044011 2840483 QDI %0761&4044002] 2840484 b&esy%dir_tfri@icfre.org</p>	<p>Mkw ds l h tkskh o'k'fud & th l eg l elb; d %u'g% njh'k'k %0761&4044003</p>	<p>m".kdfVcdk; ou vuq U'ku l lFkku] t'cyij r'fk ok'fudh vuq U'ku , oa ekuo l d k'ku fodkl d'bnz f'N'uk'k l s l s l EcfU/kr l Hh ekeys</p>
<p>ok'fudh vuq U'ku , oa ekuo l d k'ku fodkl d'bnz i ksvk'g & d'k'f'yd'k' i ksvk'g f'N'uk'k & 480 001</p>			
<p>o"wk'z ou vuq U'ku l lFkku] i k'v'k'g 136] n'ou] l'kr'k'g , -Vh- j'k'g+ t'k'g'k'g & 785 001 %l e'z</p>	<p>Mkw , u- ds okl q fun'skd njh'k'k %0376&2350273 %dk'g% 0376&2350271 %u'g% QDI %0376&2350273 b&esy %air_rfri@icfre.org</p>	<p>Jh x'k'e cut'z mi ou l j'k'g ykdl l ipuk vf/kdkjh njh'k'k %0376&2350272 %dk'g% QDI % 0376&2350274 %u'g%</p>	<p>o"wk'z ou vuq U'ku l lFkku] t'k'g'k'g l s l EcfU/kr l Hh ekeys</p>
<p>ok'g , oacr] m'pp vuq U'ku d'bnz i k'v'k'g ua 171] d'g'hd'k'g] v'k'k'g & 796001 %e't'k'g'e'z</p>	<p>Mkw , u- ds okl q fun'skd njh'k'k %0376&2350273 %dk'g% 0376&2350271 %u'g% QDI %0376&2350273 b&esy %air_rfri@icfre.org</p>	<p>Jh x'k'e cut'z mi ou l j'k'g ykdl l ipuk vf/kdkjh njh'k'k %0376&2350272 %dk'g% QDI % 0376&2350274 %u'g%</p>	<p>ok'g , oacr] m'pp vuq U'ku d'bnz v'k'k'g l s l EcfU/kr l Hh ekeys</p>



ed; ky; @I &Fku	, si hys/ i kf/kdkjh	ykdI puk vf/kdkjh	vkofVr fo"k; oLrq
'kqd ou vuq U/kku I &Fku] i ksvkN&Nf" mit eMh U; w ikyh jkM t kskij&342 005	MWVh , I - jkBs] funskd nijHk" % 0291&2722764 2742549 QDI % 0291&2722764 b&esy % dir_afri@icfre.org	MW inhi pksjh iaeq] ou I o/kz cHkx nijHk" % 0291&2729196 QDI % 0291&2722764 b&esy %pradeep@icfre.org	'kqd ou vuq U/kku I &Fku] t kskij I s I EcfU/kr I Hh ekeys
fgeky; u ou vuq U/kku I &Fku dkuQj dsil] i ksk?kVh f'keyk&171 009	Jh eksGUnz iky funskd nijHk" % 0177&2626778 %dkkz QDI % 2626779 %dkkz 2624392 %u½ b&esy %hfri@icfre.org m palifs@yahoo.com dir_hfri@icfre.org	MW dE , I E di j I eg I elb; d %vuq½ , oa i aeq] t sfofo/krk , oa i kfj fLFf rdh cHkx fg-o-v-I - f'keyk & 171 009 nijHk" % 0177&2626801 %dkkz QDI % 0177&2626779 %dkkz b&esy %hfri@icfre.org kapoorks@icfre.org	fgeky; u ou vuq U/kku I &Fku] f'keyk I s I EcfU/kr I Hh ekeys
ou mRi kndrk I &Fku] vj. okn; kj jkph xeykj , u-, p-23] i ks vW ykyx/okj jkph&835 303	Jh vkjE N". kefirZ funskd nijHk" % 0651&2948505 %dkkz 0651&2546044 %u½ QDI % 0651&2241457 b&esy% krishnamurthyr@icfre.org dir_ifp@icfre.org	Jh jkesoj nkl ou I j{kd nijHk" % 0651&3296974 %dkkz b&esy %dasr@icfre.org	ou mRi kndrk I &Fku] jkph I s I EcfU/kr I Hh ekeys



भारतीय वानिकी अनुसन्धान एवं शिक्षा परिषद् एवं इसके संस्थानों के पते और ई-मेल

egkfun's kd
Hkjr h; okfudh vud U/kku , oaf'k{k ifj"kn-
Mkd?kj & U; wQKJL.V] nsjknw&248 006
b&esy : rawatgs@icfre.org
dg@icfre.org
nijHk" k %0135&2759382] 2224855

mi egkfun's kd ¼i z kkl u½
Hkjr h; okfudh vud U/kku , oaf'k{k ifj"kn-
Mkd?kj & U; wQKJL.V] nsjknw&248 006]
b&esy %garbyalms@icfre.org
ddg_admin@icfre.org
nijHk" k %0135&2758295] 2224856

mi egkfun's kd ¼vud U/kku½
Hkjr h; okfudh vud U/kku , oaf'k{k ifj"kn-
Mkd?kj & U; wQKJL.V] nsjknw&248 006]
b&esy %rawatgs@icfre.org
ddg_res@icfre.org
nijHk" k %0135&2757775] 2224836

mi egkfun's kd ¼f' k{k½
Hkjr h; okfudh vud U/kku , oaf'k{k ifj"kn-
Mkd?kj & U; wQKJL.V] nsjknw&248 006]
b&esy %omkar@icfre.org
ddg_edu@icfre.org
nijHk" k %0135&2758571] 2224832

mi egkfun's kd ¼foLrkj½
Hkjr h; okfudh vud U/kku , oaf'k{k ifj"kn-
Mkd?kj & U; wQKJL.V] nsjknw&248 006]
b&esy %rabindra@icfre.org
ddg_extn@icfre.org
nijHk" k %0135&2750693] 2224830

fun's kd ¼vud U/kku½
Hkjr h; okfudh vud U/kku , oaf'k{k ifj"kn-
Mkd?kj & U; wQKJL.V] nsjknw&248 006]
b&esy %sandeeptrip@icfre.org
dir_res@icfre.org
nijHk" k %0135&2756497] 2224831

I fpo
Hkjr h; okfudh vud U/kku , oaf'k{k ifj"kn-
Mkd?kj & U; wQKJL.V] nsjknw&248 006]
b&esy %sudhanshu@icfre.org
sec@icfre.org
nijHk" k %0135&2758614] 2224867

i æqk
tð fofo/krk , oa tyok; qifjorZ
Hkjr h; okfudh vud U/kku , oaf'k{k ifj"kn-
Mkd?kj & U; wQKJL.V] nsjknw&248 006]
b&esy %renusingh@icfre.org
head_bcc@icfre.org
nijHk" k %0135&2750296] 2224823

I gk; d egkfun's kd
¼i z kkl u½
Hkjr h; okfudh vud U/kku , oaf'k{k ifj"kn-
Mkd?kj & U; wQKJL.V] nsjknw&248 006]
b&esy %pramod@icfre.org
adg_admin@icfre.org
nijHk" k %0135&2750297] 2224869

I gk; d egkfun's kd
¼HkYkhZ ckM½
Hkjr h; okfudh vud U/kku , oaf'k{k ifj"kn-
Mkd?kj & U; wQKJL.V] nsjknw&248 006]
b&esy %sanjay@icfre.org
adg_rb@icfre.org
nijHk" k %0135&2755399] 2224839

I gk; d egkfun's kd
¼f' k{k½
Hkjr h; okfudh vud U/kku , oaf'k{k ifj"kn-
Mkd?kj & U; wQKJL.V] nsjknw&248 006]
b&esy %dogrark@icfre.org
adg_edu@icfre.org
nijHk" k %0135&2758348] 2224850



I gk; d egkfun's kd
 %vud U/kku , oa ; kst uk½
 Hkjrh; okfudh vud U/kku , oaf'k{kk ifj"kn~
 Mkd?kj & U; wQkV] nsjkrw&248 006]
 b&esy %ashish@icfre.org
 adgpp@icfre.org
 adg_pp@icfre.org
 nijHk"K %0135&2753290] 2224807

I gk; d egkfun's kd %uhfr vud U/kku½
 Hkjrh; okfudh vud U/kku , oaf'k{kk ifj"kn~
 Mkd?kj & U; wQkV] nsjkrw&248 006]
 b&esy %dogrark@icfre.org
 adg_pr@icfre.org
 nijHk"K %0135&275348] 2224850

I gk; d egkfun's kd
 %vufo.k , oa eW; kadu½
 Hkjrh; okfudh vud U/kku , oaf'k{kk ifj"kn~
 Mkd?kj & U; wQkV] nsjkrw&248 006]
 b&esy %singhmp@icfre.org
 adg_me@icfre.org
 nijHk"K %0135&2757485] 2224810

I gk; d egkfun's kd
 %i fj ; kst uk I fol; kl ½
 Hkjrh; okfudh vud U/kku , oaf'k{kk ifj"kn~
 Mkd?kj & U; wQkV] nsjkrw&248 006]
 b&esy %pankaja@icfre.org
 adg_pf@icfre.org
 nijHk"K %0135&2754882] 2224827

I gk; d egkfun's kd
 %i ; kbj .k i Hkko vkadyu½
 Hkjrh; okfudh vud U/kku , oaf'k{kk ifj"kn~
 Mkd?kj & U; wQkV] nsjkrw&248 006]
 b&esy %varmad@icfre.org
 adg_eia@icfre.org
 nijHk"K %0135&2753882] 2224813

I gk; d egkfun's kd
 %i kf [; dh½
 Hkjrh; okfudh vud U/kku , oaf'k{kk ifj"kn~
 Mkd?kj & U; wQkV] nsjkrw&248 006]
 b&esy %sdsharma@icfre.org
 adg_stat@icfre.org
 nijHk"K %0135&2752221] 2224865

I gk; d egkfun's kd
 %ehfM; k , oa i zdk' ku½
 Hkjrh; okfudh vud U/kku , oaf'k{kk ifj"kn~
 Mkd?kj & U; wQkV] nsjkrw&248 006]
 b&esy %rpsingh@icfre.org
 adg_mp@icfre.org
 nijHk"K %0135&2755221] 2224814

i fj ; kst uk fun's kd
 %Lye½
 Hkjrh; okfudh vud U/kku , oaf'k{kk ifj"kn~
 Mkd?kj & U; wQkV] nsjkrw&248 006]
 b&esy %bhardwaja@icfre.org
 nijHk"K %0135&2224819

fun's kd
 ou vud U/kku I hFku
 Mkd?kj & U; wQkV]
 nsjkrw&248 006]
 b&esy %negiss@icfre.org
 dir_fri@icfre.org
 nijHk"K %0135&2224444] 2755277
 QDI % 0135&2756865

fun's kd
 ou vkuq'kdh , oao{k iztuu I hFku
 ou ifj]j] ikV ckDI ua 1061
 vkj- , I -ije] dks EcVj&641 002
 b&esy %dir_ifgtb@icfre.org
 nijHk"K %0422&2484100] 2431540
 QDI %0422&2430549



fun's kd
dK'B foKku , oa iKs] kfxch I hFku
ou vuq U'kku iz kx'kkyk ifj I j
i k vKk& ekysoje] cxyk&560 003
b&esy %dir_iwst@icfre.org
nijHk'k %080&23347131] 22190100] 22190200
QDI %080&23340529

fun's kd
m".kdfvcakh; ou vuq U'kku I hFku
i k vKk& vkj-, Q-vkj- I h
eMyk jkM] tcyij&482 021 %e/; inskz
b&esy %dir_tfri@yahoo.co.in
dir_tfri@icfre.org
nijHk'k %0761&4044002] 2840483
QDI % 0761&4044002] 2840484

fun's kd
o"kkz ou vuq U'kku I hFku
i k v cKMI ua 136] nsou 1/4 kskbz
, -Vh- jkM]
tkjgkV&785 001 %v/ e/2
b&esy %dir_rfri@icfre.org
nijHk'k %0376&2350273
QDI % 0376&2350274

fun's kd
'kqd ou vuq U'kku I hFku
Mkd?kj& N'f'k mit e.Mh
U; wikyh jkM]
tkki j&342 005
b&esy %dir_afri@icfre.org
nijHk'k %0291&2722549
QDI %0291&2722764

fun's kd
fgeky; u ou vuq U'kku I hFku
dkuQj dsi I] iBk'kVh
f'keyk&171 009
b&esy %hfri@icfre.org
mpalifs@yahoo.com
dir_hfri@icfre.org
nijHk'k %0177&2626778] 2626801
QDI %0177&2626779

fun's kd
ou mRikndrk I hFku
vj.; kn;] jkph] xeyk] , u-, p-23]
i k v k ykyxw/ok]
jkhph&835 303
b&esy % dir_ifp@icfre.org
ifpranchi@hotmail.com
nijHk'k %0651&2948505
QDI %0651&2546044

i zedk
okfudh vuq U'kku , oaekuo I d k/ku
fodkl dbnz
Mkd?kj& dMkfydyk] i ks/ke]
fNnokMk' %e-g-1/2& 480 001
nijHk'k %07162&254463
QDI %07162& 254463

i zedk
I kek'fd okfudh , oa
ikj&iqzFkku dbnz
3@1 yktir jk; uxj U; wdVjk]
bykgkckn&211002
nijHk'k %0532&2440795
QDI % 0532&2440797

i zedk
ou vuq U'kku dbnz
Myki Yyh] gdhei S' 1/4 k v k M]
gshjckn & 500 014
b&esy %head_frc@icfre.org
nijHk'k %040&23194188] 23095921
QDI % 040&23095926] 23194188

zedk
Qkq , oacir mPp vuq U'kku dbnz
i kscDI ua 171] dtyhdkM]
vkttkly & 796 001
b&esy %tripathiyc@icfre.org
nijHk'k % 0389&2301159] 2301157
QDI % 0389&2301159



शब्द-संक्षेप सूची

, , , l	&	, Vkl'ed vo'kks.k Li DVks/kehVj
, l h ,	&	veksudy dklj vkl fud
, , e	&	vkcl'clwj ekbdkjktoty
, MCV; wMCV; Vh l h	&	mlue dk'B deZif'k{k.k daz
ch ,	&	6&cltkby , Mhfuy
ch , ; w	&	fcjlk d'f'k fo'ofok ky;
ch th Vh fMoh-	&	t6 iks'kx dh' vkuo'f'kdh , oao'k l d'kj i Hkx
ch , p ; w	&	cukj l fglwfo'ofok ky;
ch vkj	&	thoe.My fjtoZ
ch vkj vkbZ , l	&	thoe.My fjtoZ l p'uk J'kyk
ch , l vkbZ	&	Hkjr; ouLifr l o'k.k
l h ch , u vkj , e	&	l epk; vk/kfjr ikdfrd l d'k/ku izak
l h l h ,	&	dklj Oke vkl fud
l h l h ch	&	dklj Oke ckjks
l h l h , Q&II	&	nsk l g; ks : i j'k&II
l h bZ l h	&	/kuk; u fofues {kerk
l h , Q	&	ou l j'kd
l h , Q vkj , p vkj Mh	&	okfudh vuq U'ku ekuo l d'k/ku , oafodkl daz
l h th	&	NVkl x<+
l h vkbZ , e , ih	&	dnh; vks/kh; , oal'gfer ikni l d'Fku
l h , u , l , y	&	dktwnd
l h ih Vh	&	dSUMMS/ /ku o'k
l h , l vkbZ vkj	&	o'k'fud , oavks'kx dh vuq U'ku ifj'kn-
l h , l vks	&	Dyksih; cht m ku
l h Vh ih , l	&	p'unkij rki fo'q LVSku
Mh ch Vh	&	t6 iks'kx dh foHkx
Mh Mh th	&	mi egkfun'skd
Mh vkbZ Mh	&	vUrj'ZVh; fodkl foHkx
Mh th	&	egkfun'skd
Mh , u ,	&	Mhvk' l hfjckU; Dyhd , fl M
Mh , u Vh ih	&	Mhvk' l hfjckU; Dyhvk'VM V'bo'k'Q'V
Mh , l , bZ ih , y	&	Mh , l , fxz LVS/ i'kbo'V fyfeVM
Mh , l Vh	&	foKku , oai'ks'kx dh foHkx
Mh ; w , l	&	fof'k'V , d: irk LFK; hRo
Mh oh l h	&	nkeknj ?kVh fuxe
bZ ch l h fMoh-	&	ikjfl'k'f'rdh , oat6fofo/krk l j'k.k i Hkx
bZ l h	&	fofues {kerk



bZ vkbZ ,	&	i ; kbj.kh; i Hko eW; kedu
b&esy	&	byDVMLud esy
bZ ih , u	&	dhVjksxtud l #dfe
bZ vkj , l	&	i ; kbj.kh; vud U/kku LVsku
bZ Vh ih	&	l epk ifrjki .k
bZ MGY; wvkbZ	&	Hkiefuxjkuh l &Fku
, Q Mh ,	&	ou fodkl , tBl h
, Q , e , l fMoh-	&	ou izak , oaou l o/kZ i Hkx
, Q ih vks	&	[kk mRi kn vkn'sk
, Q vkj l h	&	ou vud U/kku dnz
, Q vkj vkbZ	&	ou vud U/kku l &Fku
, Q vkj vks	&	ou jat vf/kdkjh
, Q , l	&	js'kk l kef; Z
, Q , l vkbZ	&	Hkjr h; ou l o'k.k
, Q Vh ,	&	okfudh if'k{k.k vdkneh
, Q Vh&vkbZ vkj	&	Okj; j VRUI OkWZ bU'YkjM
, Q OgkbZ , e	&	OkeZ ; kmZ [kn
th ,	&	ftcfyd , fl M
th ch , p	&	?kj o'k , oa ApkbZ
th l h@ , e , l	&	xS OkeV/ksktOh ekl Li DVkehVh
th , y l h	&	xS fyfDoM OkeV/ksktQ
th vks vkbZ	&	Hkjr l jdkj
th ih , l	&	fo'o vofLFkr izkkyh
th ; wvkbZ	&	xkfQdy mi HkDrk vlrjki "B
, p , vkj ih	&	clxckuh , oad'k okfudh vud U/kku dk; De
, p , u ch th ; w	&	georh ulnu cgq'kk x<oky fo'ofok ky;
, p ih	&	fgekpy insk
, p ih , y l h	&	mPp ncko no OkeV/ksktQ
, p ih , y l h	&	mPp 'kDr no OkeV/ksktQ
, p ih , y l h	&	mPp fu"iknu no OkeV/ksktQ
, p vkj Mh	&	ekuo l d k/ku fodkl
vkbZ , ,	&	bUMky , l hfVd , fl M
vkbZ ch ,	&	bUMky C; whjd , fl M
vkbZ l h , Q vkj bZ	&	Hkjr h; okfudh vud U/kku , oaf'k{k ifj"kn~
vkbZ Mh vkj l h	&	varjZVh; fodkl vud U/kku dnz
vkbZ th , ; w	&	bflnj k xk'kh d'k fo'ofok ky;
vkbZ , Q th Vh ch	&	ou vkuo'k'kdh , oao'k iztuu l &Fku
vkbZ , Q ih	&	ou mRi kn drk l &Fku
vkbZ , Q vkj vkbZ , l	&	Hkjr h; okfudh vud U/kku l puk izkkyh
vkbZ vkbZ , u vkj th	&	Hkjr h; ikdfrd jky , oaxkn l &Fku
vkbZ , y vkj vkbZ	&	Hkjr h; yk[k vud U/kku l &Fku
vkbZ , l , l vkj	&	var% l k/kj.k vuqe vkof'k



vkBZ, l , e	&	Hkjrh; [kku fo ky;
vkBZ Vh	&	l puk i kS kSxdh
vkBZ Vh Vh vks	&	var jkZVh; m".kdfVcdkh; izk'B l aBu
vkBZ MCY; w, l Vh	&	dk'B foKku , oa i kS kSxdh l aFkku
ts, Q , e l h	&	l a Dr ou izak l fefr
ts, Q , e	&	l a Dr ou izak
ts, u dsoh oh	&	tokg jky usg: df'k fo' ofo ky;
ts, l , Q Mh l h , y	&	>kj [kM jkT; ou fodkl fuxe fy-
ds ih ds	&	df'k foKku danz
, y , , u	&	LFkkuh; {ks= us'odZ
, y l h	&	?krd l kUnrk
, y & Mh vks ih ,	&	, y & 3] 4 & fMgkbMMD l hQhuhysukbu
, e , Mh ih	&	vks/kh; l gjfhr , oajat d ikni
, e , ih	&	vks/kh; , oa l gjfhr ikni
, Q vks bZ , Q	&	i ; kbj .k , oa ou ea-ky;
, e vks bZ	&	i R; kLFkrk xqkkad
, e vks vkj	&	ifr jkSk ekikad
, e vks ; w	&	l e > kSk Kkiu
, e vks MCY; w vkj	&	ty l d kku ea-ky;
, e ih	&	e/; insk
, e ih l h ,	&	vks/kh; ikni l j {k.k {ks=
, e ih , Q Mh	&	e/; insk ou foHkx
, e ih , e , Q ih	&	e/; insk xkSk ou mit
, e ih , l ch Mh ch	&	e/; insk jkT; tSfofo/krk ckMZ
, e , l	&	egkj k"V ^a
, e Vh bZ	&	e/; kof/k eV; hdu
, e MCY; w	&	ekbOkoo
, u , ,	&	uFfk , l hfVd , fl M
, u , ch , vkj Mh	&	jk"Vh; df'k , oa xkeh.k fodkl cid
, u , ih	&	jk"Vh; ouhdj .k dk; De
, u ch , e	&	jk"Vh; ckd fe'ku
, u ch vkj vkBZ	&	jk"Vh; okuLifrd vud U/kku l aFkku
, u bZ vkj vkBZ MCY; w , , y , e	&	mYkj iohZ {ks-h; ty vks Hdie izaku l aFkku
, u , Q Vh	&	ukbVrst u LFk; hdj o{k
, u th vks	&	xS l jdkjh l aBu
, u , e ch ,	&	jk"Vh; ckd mi ; ks fe'ku
, u , e ih ch	&	jk"Vh; vks/kh; ikni ckMZ
, u Vh , Q ih	&	xS izk'B ou mit
, u MCY; w , Q ih	&	vdk'B ou mit
, u vkj l h	&	jk"Vh; vud U/kku danz
, u vkj l h , , Q	&	jk"Vh; df'kokfudh vud U/kku danz



vks dsMh vkbZ , l l h Mh	&	vks/vks dēkj nkl l kēf'td ifjorū vks fodkl l Ā.Fkku
vks , l vkj	&	vks LV'sku vuq U/kku
ih l h vkj	&	ikw/hejst psu vffkFØ;k
ih Mh ch l h	&	t'fodh; fu; æ.k ifj; kst uk fun'skky;
ih , l ch	&	QkM/Qs/ foy's u oD'Vhfj; k
ih , Q ,	&	[kk] feykov jkd'Fkke vf/kfu; e
ih , Q	&	ifj; kst uk l =hdj .k
ih vkj ,	&	l g; ks xkeh.k eW; fu/kkj .k
D; wih , e	&	xqkoYkk jks .k ink'FkZ
vkj , ih Mh	&	csjrto ifjof/kz cgg ih
vkj ch Mh	&	; knfPNdhd'r CykM vffk'dYi
vkj , p	&	l ki'k vknz'k
vk ih l h	&	vuq U/kku ulfr l febr
vkj , l	&	l mj l osh
, l , , l oh ih bZ , l QgkbZ	&	l enk; vk/kfjr l eflor ou id/kū , oal j{k.k ; kst uk
, l bZ ih l h	&	'khy's fu; kz i'k l kgu l febr
, l , Q Mh	&	jkT; ou foHkx
, l , p th	&	Lo; al gk; rk l enj
, l , y vkj fMoh-	&	enk , oal'kie l qkj i'kx
, l ih ,	&	cht mRi'knu {ks-
, l ih , e	&	fuy'f'ecr fofodr ink'FkZ
Vh ch vks	&	o{k tfur sy cht
Vh l h	&	Ārd l id/kū
Vh Mh tM	&	ffk'M; kT; jkM
Vh bZ , e	&	l pj .k byD'Vku ekbØkt.dki h
Vh bZ vkj vkbZ	&	Vk/Vk Ā'tkz , oal d kku l Ā.Fkku
Vh , Q vkj vkbZ	&	m" .kdfVcdh; ou vuq U/kku l Ā.Fkku
Vh , Q Vh	&	ffku fQYe VRUtLVj
Vh , y l h	&	ffku&ys j ØkēVksctQ
; w , u Mh ih	&	l a'p' jk"V ^a fodkl dk; Øe
; wih vkbZ vkj	&	vYV'k ok; y' bU'YkjM
oh , , e	&	oSl dWj vkcl'dWj ekbdkj'kbt k
oh ih l h	&	okulifrd id/kū daz
oh ih , u	&	op'ry ikbo's/ us'odZ
MCY; wch	&	if'pe caky
MCY; wih , e	&	dk'Bh; ikni eh'M; k
MCY; wMCY; w , Q	&	fo'o 0; kih fuf/k



प्रकाशित द्वारा
मीडिया एवं प्रकाशन प्रभाग
विस्तार निदेशालय
भारतीय वानिकी अनुसन्धान एवं शिक्षा परिषद्
(पर्यावरण एवं वन मंत्रालय, भारत सरकार की एक स्वायत्त परिषद्)
डाकघर- न्यू फॉरेस्ट, देहरादून (उत्तराखण्ड)