

प्रारम्भिक मशरूम उत्पादन



भा.कृ.अनु.प.—खुम्ब अनुसंधान निदेशालय

(भारतीय कृषि अनुसंधान परिषद)

चम्बाघाट, सोलन-173213 (हि.प्र.)



ikj fEHkd [kEc mR i knu



[kEc vu l /kku fun'kky ;

¼Hkkjrh; df"ku vu l /kku ifj"kn½
pEck?kkV] lkyu & 173 213 ¼fg0i0½



ikjfeHkd [kEc mRiknu

I Eiknd%

efnr% 2014] 1000 ifr;k

idk'kd%

fun'kd

[kEc vu l /kku fun'kky;

$\frac{1}{4}$ Hkkjrh; df"vul/kku ifj"kn $\frac{1}{2}$

pEck?kkV] Ikyu&173 213 $\frac{1}{4}$ fg-i- $\frac{1}{2}$

njHkk"k % $\frac{1}{4}$ 01792 $\frac{1}{2}$ 230451

QDI % $\frac{1}{4}$ 01792 $\frac{1}{2}$ 231207

b&ey % directordmr@gmail.com

Okc IkbV % www.nrcmushroom.org

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Iokf/kdkj Ijf{krA I{ke vf/kdkjh dh io fyf[kr vuefr d fcuk bl iLrd dk dkb Hkh v'k fd l h Hkh :lk
e iukRikfnr] Nfovdu] vfHky[ku vFkok fd l h vU; idkj I ifjjf{kr vFkok i{kfir ugh fd;k tk l drk gA

end%

;xkurj idk'ku ik- fy-] ub fnYyh] njHkk"k% 011&28115949] 28116018

fo"K; I ph

Ø- I-	ikB	i"B I[;k
1-	[kEc & ,d ifjp;	1
2-	[kEc d ik"kd x.k	7
3-	[kEc cht ¼Liku½	11
4-	'or cVu [kEc dh ipfyr mUur fdLek dh ie[k fo'k"krk,	16
5-	'or cVu [kEc mRiknu gr [kkn r;kj djuk	20
6-	0;oIkf;d cVu [kEc Qke Ijpuk	29
7-	de eY; dk ek leh [kEc mRiknu d{k	49
8-	'or cVu [kEc & Qly ic/ku o mUur fØ;k,	53
9-	mit of) gr tfod o jlk;fud mRijdk dk i;kx	63
10-	'or cVu [kEc mRiknu dk vkfFkd fo'y"k.k	67
11-	f<xjh ¼/yjkVI½ dh [krh] vkfFkd fo'y"k.k o okf"kd mRiknu ;ktuk	73
12-	nf/k;k [kEc dh [krh o vkfFkd fo'y"k.k	82
13-	f'kVkd [kEc dh [krh	88
14-	fof'k"V [kEc dh [krh	91
15-	ivky [kEc ¼okYofj,y½ dh [krh	95
16-	[kEc dh chekfj;k o mudk icU/ku	101
17-	[kEc d dhMk&edkMk vkj I=dfe;k dk icU/ku	105
18-	dVkb mijkuR [kEc dk j[k&j[kko o mldk I lk/ku	112
19-	'or cVu [kEc d eY;o/kd mRikn	117
20-	[kEc mRiknukijkuR i;Dr [kkn ¼ik"kk/kkj½ dk iu½ bLreky	120
21-	_rvk ij vk/kkfjr okf"kd [kEc mRiknu ;ktuk	124
22-	[kEc mRiknu e if'k{k.k vfuok;rk o ikflr d lkr	128
23-	ifjf'k"V&1	131

;kxnku nu okyk dh lph

- 1- Mk- eut^{hr} flg] fun'kd] [kEc vuI/kku fun'kky;] lkyu
- 2- Mk- vkj-i^h- frokj^h] io&fun'kd] [kEc vuI/kku fun'kky;] lkyu
- 3- Mk- ,l-vkj- 'kek] io&i/kku oKkfud] [kEc vuI/kku fun'kky;] lkyu
- 4- Mk- vkj-Mh- jk;] io&i/kku oKkfud] [kEc vuI/kku fun'kky;] lkyu
- 5- Mk- ch-,y- /kj] io&i/kku oKkfud] [kEc vuI/kku fun'kky;] lkyu
- 6- Mk- vkj-l^h- mik/;k;] i/kku oKkfud] [kEc vuI/kku fun'kky;] lkyu
- 7- Mk- ch- fot ;] io&i/kku oKkfud] [kEc vuI/kku fun'kky;] lkyu
- 8- Mk- ,l-d- flg] io&i/kku oKkfud] [kEc vuI/kku fun'kky;] lkyu
- 9- Mk- oh-i^h- 'kek] i/kku oKkfud] [kEc vuI/kku fun'kky;] lkyu
- 10- Mk- vk-i^h- vgykor] i/kku oKkfud] [kEc vuI/kku fun'kky;] lkyu
- 11- Mk- l r^h'k dekj] i/kku oKkfud] [kEc vuI/kku fun'kky;] lkyu
- 12- Mk- ,e-l^h- ;kno] io&ofj"B oKkfud] [kEc vuI/kku fun'kky;] lkyu
- 13- Mk- ,e-i^h- lxxj] io&ofj"B oKkfud] [kEc vuI/kku fun'kky;] lkyu
- 14- Mk- Vh- vjexukFku] io&oKkfud] [kEc vuI/kku fun'kky;] lkyu
- 15- Mk- 'or dey] ofj"B oKkfud] [kEc vuI/kku fun'kky;] lkyu

ikDdFku

Rkduhdh Kku dk t:jren rd o iHkko'kkyh :lk l igpku d fy, l jy Hkk"kk] rFkk rduhdh tUenkrk o rduhdh viuku oky dh Hkk"kk e lekurk t:jh gA oKkfud Kku dk vxth Hkk"kk e vikj Hk.Mkj g ijUr jk"V Hkk"kk fgUnh o LFkkuh; Hkk"kkvk e ;g u d cjkcj gA xkeh.k {k= d yxk d f'k{k Lrj dk /;ku e j[kr g, jk"V Hkk"kk fgUnh o LFkkuh; Hkk"kkvk e rduhdh Kku dk miyC/k gkuk vfr vko';d gA

jk"Vh; Lrj ij] [kEc vul/kku fun'kky;] lkyu $\frac{1}{2}fg-i-\frac{1}{2}$ [kEc mRiknu e fd lkuk] efgykvk o ;okvk dk if'k{kr dju e egRoi.k ;kxnu fuHkk jgk gA fun'kky; e dk;jr oKkfud [kEc mRiknu lc/kh Kku l vkr&ikr g ijUr bl fgUnh Hkk"kk e if'k{k.kkfFk;k dk miyC/k djku d fy, ;g l dyu fd;k x;k gA ;gk rd fd fd lkuk dk if'k{k.k rk fgUnh o vxth Hkk"kk dk fefJr dj fn;k tkrk Fkk ijUr if'k{k.k lkexh vxth Hkk"kk e gh inku djkb tkrh FkhA bu rF;k dk /;ku e j[kr g, vxth Hkk"kk e miyC/k if'k{k.k lkexh dk fgUnh Hkk"kk e o"2000 e lEiknd }kjk l tu fd;k x;k rFkk if'k{k.kkfFk;k dk Nk;k ifr d :lk e inku dj;k tkrk jgkA fuf'pr le; vrjky ij bl if'k{k.k lkexh dk eY;kdu if'k{k.kkfFk;k l djokdj cnyko Hkh fd, x, gA rnijkr bl if'k{k.k lkexh dk iLrd d :lk e iFke ckj lu 2008 e Niok;k x;k] bldk l/kjk gvk :i fQj l lu 2014 e Niok;k tk jgk gA

iLrd e 'or cVu [kEc mRiknu dh tfVyrk dk /;ku e j[kr g, bldh mRiknu rduhdh dk [kk l egRrk nh xb gA bld l Hkh igyvk dk foLrkjiod o.ku fd;k x;k gA bld ckn vU; [kEck t l f<xjh [kEc] nf/k;k [kEc] ivky [kEc dh mRiknu rduhdh dk fof/kor mYy[k fd;k x;k gA mijjDr [kEck d vykok fof'k"V J.kh dh [kEck o vkf'k/kh; [kEck dh mRiknu rduhdh dk Hkh LFkku fn;k x;k gA mRiknu ifd;k d vfrfjDr] lkekU; igyvk tl [kEc&,d ifjp;] ik"kd x.k] dYpj o Liku mRiknu] Qke ljpuk] vkfFkd fo'y"2014] ik l f l x] chekfj;k o dhMk&edkMk dk ic/ku] ek leh okf'kd Qly mRiknu ;ktuk] LiV dEikLV dk mi;kx vkfn fo"2014; dk Hkh ;Fkkmfpr LFkku ij 'kkfey fd;k x;k gA fo"2014;&okLr dk le>ku gr j[kk fp=k o Nk;kfp=k dk lgjk fy;k x;k gA fo"2014;&okLr dh dec}rk dk Hkh /;ku e j[k dj v/;k;k dk lxfBr fd;k x;k g rkfd ikBdk dk fo"2014; oLr le>u e dfBukb u gk rFkk fo"2014;&okLr :fpdj yxA lkexh e ikBdk d lkekU; f'k{k Lrj dk vk/kkj eku dj l jy o vke cypky oky 'kCnk dk i;kx fd;k x;k gA vxth Hkk"kk e miyC/k , l oKkfud o rduhdh 'kCn tk vke ikBdk }kjk le> tkr g] dk fgUnh nouxjh fyfi e mPpkfjr dj i;kx e yk;k x;k g D;kfd bu 'kCnk dk fgUnh vuokn ikBdk }kjk le>u e dfBu gkrkA

ey:l k e iLrd e of.kr fo"2014;&okLr] Kku o/kd] :fpdj o l jy gA ;g iLrd [kEc mRiknu dk; ikjEHk dju dh vkj vxlj d"kd] ;okvk o ;ofr;k dk ekx n'ku dju e lgk;d fl} gkxhA lFk gh

ikjfeHkd [kEc mRiknu

igy l ekleh o e>ky [kEc mlfek d [kEc mRikknuc/kh Kku e of} dj mUg leL;kvk l mHkkju
e lg;kx inku djxhA

bl iLrd d lQy lEiknu d fy, e lHkh y[kdk dk __.kh g rFkk /kU;okn nrk g ftud uohure
Kku fcuk ;g dk; lEHko u FkkA mud }kjk inku fd, x, vk/kkjHkr y[kk l gh iLrd dh vk/kkjf'kyk
j[kh xb rFkk mi;kxh l/kkj fd, x,A bl iLrd d idk'ku gr fun'kky; d fun'kd /kU;okn d ik= gA
lElkknuc idk'ku e inku fd, x, i'kk lfud lg;kx d fy, e budk vkHkkjh gA e fun'kky; d mu
lc vf/kdkfj;k o depkfj;k dk ân; l vkHkkj idV djrk g ftUgku iR;{k ;k vi;R{k :lk l iLrd d
idk'ku e lg;kx fd;k gA

**$\frac{1}{4}$ vk-ih- vgykor $\frac{1}{2}$
lEiknd**

vke[k

“kjr d fofHkUu “kxk e fofHkUu idkj dh tyok; ikb tkrh g] tk dh fofHkUu idkj d [kEc mRiknu d fy; vudy gA Hkkjro" e [kEc mRiknu e rth l of) gk jgh gA [kEc dh ik"kd x.koUkk o vk"kf/k; egRo dh c<rh gb tkudkj dh otg l bldh [kir rFkk ekx yxkrkj c<rh tk jgh gA [kEc mRiknu 0;olk; e ;okvk o fdIkuk dh :fp fnu ifr fnu c< jgh gA lekt d fofHkUu oxk e [kEc mRiknu tkudkj fofHkUu ipkj ilkj ek?;ek }kjk igpku e [kEc vul/kku fun'kky;] pEck?kkV] lkyu ¼fg0i0½ i;k ljr g] if'k{k.k dk;dek dk vk;ktu mue l ,d gA ;g fun'kky; iR;d o"kdIkuk] ;okvk] m|fe;k o fo"k; oLr fo'k"Kk d fy; if'k{k.k dk;de vk;kftr djrk gA if'k{k.k dk;dek e mi;Dr o ljj Hkk"kk e ikBu lkexh miyC/k gkuk vf/kd Kku iklr dju e lg;d gkrh gA bl h mn'; dh ikflr gr fgUnh e ikBu lkexh dk ldyu dj ;g iLrd l'kk/ku d ckn iU; idkf'kr dh tk jgh gA

bl iLrd e [kEc mRiknu d fofHkUu igyvk dk lxe vkj vki ku : i e le>ku dh dkf'k'k dh xb gA fofHkUu [kEck dh mRiknu ifd;k d vfrfjDr] lkekU; igyvk t l [kEc ifjp;] ik"kd x.k] dYpj o Lik mRiknu] Qke ljpuk] vkfFkd fo'y"k.k] ik lflx] chekfj;k o dhMk&edkMk dk ic/ku] ek leh okf"kd Qly mRiknu ;ktuk] LiV dEikLV dk mi;kx vkfn dk 'kkfey fd;k x;k gA ;g iLrd fdIkuk] ;okvk] efgykvk] u; m|fe;k rFkk [kEc m|kx l lEcfU/kr 0;fDr;k dk oKkfud <x l [kEc mRiknu dju e lg;d gkxhA ge vk'kk gh ugh cfYd i.k fo'okl g fd gekj fgUnh Hkk"kh ykx bl iLrd l vo'; ykHk mBk;xA

bl iLrd e bl fun'kky; d io o oreku oKkfudk u ;kxnku fn;k g vkj e bu lHkh dk /kU;okn nrk gA e mu lc vf/kdkfj;k o depkfj;k dk vkHkkjh g ftUgku iR;{k ;k vi;R{k :lk l iLrd d idk'ku e lg;kx fd;k gA

¼euthr flg½
fun'kd

[kEc & ,d ifjp;

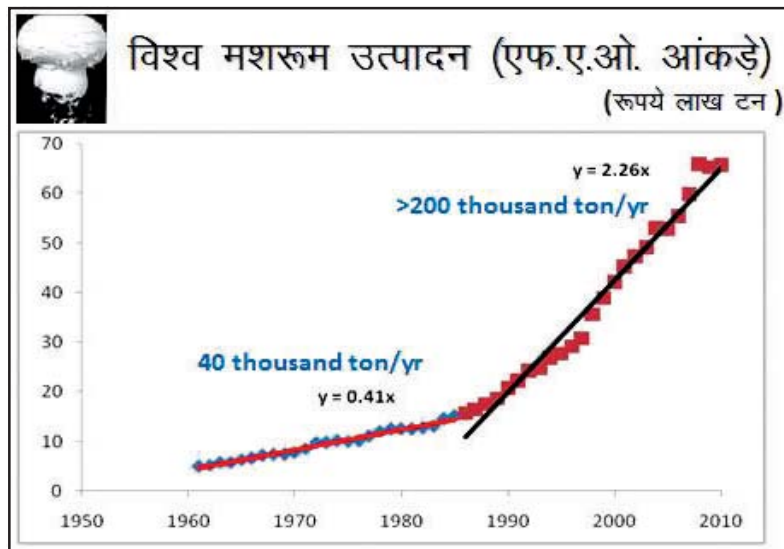
[kEc ,d fo'k'k idkj d to ox l lc/k j[kr g ftUg QQn d uke l tkuk tkrk gA bue ik/kk d leku gfjr inkFk ¼DykjƒQy½ ugh gkrk vkj ; to inkFkk o bud vo'k'kk ij mxr gA bu inkFkk l ; viuk Hkk tu dN egħu /kkxk t l ħ jpuk ¼ekblħfy;e½ tk inkFk d vnj rd Hkn tkr g] }kjk lk[kr gA ; /kkx vf/kdrj inkFkk dh Åij ħ lrg ij utj ugh vkrA dkQh Hkk tu lk[ku rFkk c<u d ckn ;g ekblħfy;e mRifŰk dju oky vxk dk cukrh g tk vf/kdrj inkFk dh lrg ij vkdj [kEc dh mŰifr djrh gA ;g [kEc Nkruek ;k vU; fd l ħ vdkj dh vud jxk e gk l drh gA lk/kkj.kr;k ble Åij ,d Vkih ,d MBy ij fvdh gb gkrh gA bud vrfjDr dN vU; jpuk, t l ink ;k xyQM ¼oy½ vxBħ ¼,uy l½ di ;k okYok vkfn Hkh gk l dr g tk [kEc dh fofHkUu voLFkkvk d nkjku fofHkUu dk;k d fy; vko';d gkr gA bue lcl vko';d dk; Vkih ¼ihfy;l½ }kjk [kEc d djkmK NKV&NKV cht ¼Lik l½ cukuk gkrk gA ; cht mi;Dr ifjlfkfr;k e mi;Dr HkkT; inkFk ij mx dj [kEc dh ub ekblħfy;e cukr gA ;g ekblħfy;e fd l ħ vU; ;kX; ekblħfy;e ;k Lo; viu l gh tM dj fQj l ub [kEc dk tUe nrh g vkj bl idkj [kEc dk ijk thou pØ pyr k gA bl idkj d thou pØ rFkk er inkFkk ij mxu d dkj.k [kEc lk/kj.kr;k mu LFkkuk e cgr;k e ikb tkrh g tgk ij ik/kk d vo'k'k t l iŰk] frud] ru vkfn lM jg gA vr% [kEc vf/kdrj txyk e] ?kk lfu;k e rFkk [krk e cgrk;r e mxrh n[kh tk l drh gA l Hkh [kEc [kku ;kX; ugh gkrhA dN [kEc vHk{k.kh; rFkk dN tgjhyh Hkh gkrh gA bu tgjhyh [kEck d dkj.k gh db ckj eu"; Mj d dkj.k Hk{k.kh; [kEck dk Hkh [kku l drjkrk gA

vkfndky l gh [kEck dk txyk l bdVBħ dj [kku dk ipyu jgk gA ijUr [kEc mxku e lQyrk bl dh iphnk thou pØ d dkj.k ugh feyhA ; lfi lcl igy 1000 o'k io m".kh; okrkoj.k e mxu okyh [kEc dk phu e mxku e lQyrk feyh ijUr okLrfod 0;olkf;d [krh ;jkih; n'kk e lkygoh o lŰkjgoh lnh e gbA oKkfud : i l [kEc dh [krh 20oh lnh l 'k: gbA lnh d 'k: e [kEc dk mŰkdk o l{en'kh cht k.kvk l 'k) lo/ku cuku e feuh lQyrk d dkj.k oKkfud : i l cVu [kEc dh 0;olkf;d [krh dk ikr lkgu feykA lu 1932 e xg d nkuk d Åij Liku cuku d iVV l bl 0;olk; e foLrkj 'k: gvka lnh d e/; rd mRiknu e of) /kheh Fkh tk lnh d vr rd cgr rho xfr l c<u yxhA lu 1970 rd ;g of) cVu e'k: e rd gh lħfer FkhA bl d ckn db vU; [kEck d mRiknu e of) gku yxh vkj vkt phu e yxHkx 60 idkj d [kEc dh fdLek dh [krh gkrh g vkj ;g n'k fo'o dk yxHkx 60 ifr'kr [kEc ink djrk gA oreku e [kEc dk budh ik'kfVdrk] vk'k/kh; x.koŰkk rFkk vk; d mŰke lk/ku d : i e 100 l Hkh vf/kd n'kk e cgr egRo fey jgk gA oreku e fo'o dk dy [kEc mRiknu 215 yk[k Vu ifr o'k g vkj ble rth l of) gk jgh gA fodflr n'kk e fo'k'kdj ;ji o vejhdh n'kk e [kEc ,d cMh vk l kfxd bdkb d : i e fxuh tkrh gA bu n'kk e oru vf/kd gku d ckotn cM Lrj ij 10000&20000 Vu ifro'k inkokj d fy; bdkb;k e vk'kkrhr lQyrk feyhA bu

ikjfeHkd [kEc mRiknu

bdkb;k e mÙke nt dh e'khuk o dEi;Vj }kjk okrhoj.k lpyu fd;k tkrk gA bld vfrfjDr bu n'kk e vudhDr [kkn o ch t cuku rFkk l lk/ku bdkb;k gA blgh dkj.kk l bu bdkb;k l o"n nj o"n vPNk mRiknu feyrk jgrk gA

phu de mRiknu ykxr e dh tku okyh [kEc dh lgdkjh [krh e feyh lQyrk dk ,d thor mnkgj.k gA bld vfrfjDr fof'k"V [kEck d mRiknu dh rjQ /;ku nu l phu fo'o e ,d e[; [kEc mRiknd n'k d : i e mHkjk g o fo'o d [kEc mRiknu yxHkx 80% inkokj dj jgk gA fiNy dN o"kk e fof'k"V [kEck d mRiknu e of) d dkj.k fo'o mRiknu e cVu [kEc dk fgLIk ?kVk gA bu [kEck e vk;LVj [kEc] f'kVkd vkj dupiMk [kEc ie[k gA bu [kk] [kEck d vfrfjDr dN vk"kh; [kEck d mRiknu e Hkh phu ,d ie[k n'k gA



fp= 1% fo'o e cVu [kEc dk mRiknu

fo'o o phu e fofHkUu [kEck dk mRiknu

o"n	fo'o]000 Vu	phu]000 Vu	%
1978	1060	60	5.7
1983	1453	175	12.0
1990	3763	1083	28.8
1994	4904	2640	53.8
1997	6158	3918	63.6
2002	12250	8650	70.6
2006		14400	
2008		18200	
2010	25000	215000	80.0

pk;uh t , l k f l , 'ku vkQ , fMcy Q t kb] pkx] 2006] vkb, l , e, l] 2012

Hkkjro" e [kEc mRiknu d volj

Hkkjro" e fofo/k idkj dk ekle o cgrk;r e fofHkUu idkj d df" k 0;Fk miyC/k g rFkk lLrh ekuo{kerk vk lkuh l fey tkrh gA blhf; ;gk ij 'khrk".k] mik".k rFkk m".k lHkh idkj dh [kEc ink dh tk ldrh gA ,lk vueku g fd Hkkjro" e ifro" k yxHkx 600 fefy;u Vu df" k 0;Fk mRiUu gkr gA bl dk ,d ifr'kr Hkh ;fn [kEc mRiknu d fy; i;kx fd;k tk ldrk Hkkjro" ,d ie[k [kEc mRiknd n'k cu ldrk gA Hkkjro" e [kEc mRiknu ; lfi 1960 d n'kd e 'k: gk x;k Fkk ijUr bl vif{kr xfr 1990 d n'kd e feyh tc ;gk fon'kh difu;k dh lgdk;rk e cMh&cMh ;ktuk, vkba bu ;ktukvk l [kEc mRiknu o" k 1985 e 4000 Vu l c< dj 1995 e 30]000 Vu ifro" k gk x;k Fkka oreku e Hkkjr e [kEc dh inkokj 1]20]000 Vu ifro" k gA ble 80 ifr'kr Hkkx cVu [kEc dk g rFkk 'k" k vU; [kEc dk mRiknu g tcf d Hkkjro" e bu 'k" k [kEc dk mxku d volj cVu [kEc l vf/kd g vkj vk'kk g fd vku oky o"kk e le'khrk".k ,o m".k [kEc dh inkokj c<xhA

cVu [kEc

;g [kEc vkt Hkh Lon'kh o fon'kh cktkjk e lokf/kd ykd fi; gA bl dk mRiknu n'k e cMh&cMh ;ktukvk e/;e vdkj dh bdkb;k rFkk ek leh bdkb;k e fd;k tk jgk gA 'k: e cMh&cMh ;ktukvk d dk;ko;u e dPp eky dh x.koUkk] ijkyh ij cukb xb [kkn dh x.koUkk cuk, j[ku e leL;k] dflx feVvh ¼ihVek l ½ d vk;kr e vR;kf/kd 0;; vkfn leL;k, vkba QyLo: i bu ;ktukvk e mRiknu e fxjkoV vkb o db ckj lEi.k Qly u"V gk tku d dkj.k [kEc mRiknu ykxr cgr vf/kd vkrk Fkka fctyh vkfn dh egxh njk u bl mRiknu ykxr dk vkj vf/kd c<k fn;ka fon'kh cktkjk e phu }kjk lLr eY; ij [kEc nh tk jgh Fkha bu lc dkj.kk l lHkh [kEc fu;kr dju okyh bdkb;k dk ud lku gva fiNy dN o"kk l e/;e vdkj dh bdkb;k i.kr;k Lon'kh rduhd }kjk 'k: dh xb ft l l ; bdkb;k vkfFkd : i l ln< gk xba bue vf/kdrj bdkb;k cM 'kgjk d utnhd yxkb xba mUkj jkT;k t l gfj;k.kk] mUkj in'k] fnYyh o itkc e lfn;k e [kEc dk ek leh rkj ij mxk;k tkrk g tk [kEc LFkkuh; cktkjk o dfux e i;kx gkrh gA ijUr bu ek leh bdkb;k e mRiknu dhMk&edkMk o chekfj;k d dkj.k ?kVrk&c<rk jgrk gA [kEc d ek leh mRiknu d fy; lgdkfjrk }kjk [kEc dh mUke [kkn cuku d fy; o [kEc d cht d mRiknu d fy; bdkb;k yxkb tk ldrh g] bld vfrfjDr [kEc dk lgdkjh foØ; u doy [kEc mRiknu e of) djxk vfir vk; dk Hkh c<k,xka oreku e cVu [kEc e[;rk fgepy in'k] mUkj[k.M] mUkj in'k] itkc] gfj;k.kk] fnYyh] egjk"V] vk/kin'k] rfeyukM o dukVd e mxkb tkrh gA

f'kVkd [kEc

f'kVkd [kEc fo'o dh nlj uEcj dh [kEc g tk fo'o mRiknu dk 25% gA vku oky o"kk e bldh ekx dkQh c<u okyh gA bl dk e[; dkj.k bld ikf"Vd x.kk d l kFk&l kFk vk"kfèk; x.k gA Hkkjr e bldh inkokj ugh d cjkcj g ijUr ;gk bldh lEHkkouk, gA bl ydMh d cjkn ij 18&24° lfy l; l rkieu ij ink fd;k tk ldrk gA

ikjfeHkd [kEc mRiknu

vk;LVj [kEc

f<xjh ;k vk;LVj [kEc $\frac{1}{4}yjkV/\frac{1}{2}$ lokf/kd ykdfi; 'khrk".k ,o mik".k itkfr g vkj fo'o [kEc mRiknu e bldk cVu [kEc d ckn rrrh; LFkku gA Hkkjr e bldk mRiknu fuEufyf[kr dkj.kk l vudy gA

- 1- bl fofHkUu idkj d df"k vo'k"kk ij mxk;k tk ldrk gA
- 2- bl fofHkUu idkj d rkieku ij mxk;k tk ldrk gA
- 3- bldh mRiknu {kerk HkkT; inkFk d vuikr e 100 ifr'kr rd gA
- 4- ble chekfj;k o Li/kkRed QQn }kjk uDIku dh lHkkouk de gA
- 5- bldh of) cgr rt g vkj mRiknu fof/k vki ku gA
- 6- bldh mRiknu ykxr dkQh de gA
- 7- ;g xkeh.k {k=k e vki kuh l mxkb tk ldrh g o cjktxkj d fy; jktxkj dk lk/ku cu ldrh gA bldh [krh fdlh Hkh Lrj ij dh tk ldrh gA
- 8- bldk l lk/ku fo'k"kr;k l [kkuk cgr vki ku gA

ivky ij mxu okyh [kEc $\frac{1}{4}okYofj$;y $\frac{1}{2}$

bldh lokf/kd [krh mMh l e gkrh gA ;g [kEc nf{k.kh&ioh vkj ioH ,f'k;kb n'kk e vHkh Hkh lokf/kd ykdfi; gA ;g ,d m".k itkfr gA bl [kEc dk 40° lfy l;l rkieku rd mxk;k tk ldrk gA bldk Lokn mÙke g rFkk thou pØ NkVk gA bl [kEc dh rMkb cVu ;k v.Mkdj fLFkr e gkuh pkfg,A bl mxku d fy; pkoy dh ijkyh e exh dh [kkn o fcuky $\frac{1}{4}$:b d cht $\frac{1}{2}$ d fNYd Mkydj ikLpjhdr ek/;e e vPNh inkokj feyrh gA rMkb d ckn tYn [kjc gkuk bldh e[; leL;k gA

nf/k;k [kEc $\frac{1}{4}d/yk l kbch bfUMd\frac{1}{2}$

;g m".k {k=k e mxku d fy; [kEc dh ,d ub itkfr gA rfeyukM] vk/kin'k o dukVd jkT;k e bl [kEc dh [krh cgr ykdfi; gA pkoy dh ijkyh ij mxu okyh [kEc d ckn ;g nljh [kEc g tk m".k okrkoy.k e ink gkrh gA bldk jx vkd"kd&nf/k;k lQn o j[ku ij x.koÙkk dk cuk jguk bld e[; x.k gA ;g db idkj d df"k 0;Fk inkFkk ij 25&35° lfy l;l rkieku ij vki kuh l mx tkrh gA vk;LVj [kEc d leku] bldh Qly mxku d fy; i;kx fd; x; ek/;e $\frac{1}{4}$ df"k vo'k"kk $\frac{1}{2}$ d vuikr e vPNh inkokj feyrh g $\frac{1}{4}$ 80&100 ifr'kr $\frac{1}{2}$ A ;g [kEc vpkj o pVuh cuku d fy; Hkh mÙke gA

dupiMk [kEc $\frac{1}{4}vkfjd/yfj$;k $\frac{1}{2}$

cVu] f'kVkd o vk;LVj [kEc d ckn fo'o e ;g lcl ykdfi; [kEc gA ;g ,d le&'khrk".k [kEc g vkj fo'o dh phuh tul[;k e lokf/kd ykdfi; gA bl iv dh [kjkch e nok d rkj ij Hkh mi;kx fd;k tk ldrk gA ;g ydMh d yVBk ij] ydMh d ckn ij] :b dkj[kkuk dh 0;Fk ij rFkk pkoy

खेती योग्य खाद्य मशरूम



श्वेत बटन मशरूम



ऑयस्टर मशरूम



पराली मशरूम



दूधिया मशरूम

खेती योग्य औषधीय मशरूम



रिशी मशरूम



शिटाके मशरूम

ikjfeHkd [kEc mRiknu

vFkok xg d HkI ij vkIkuh I mxkb tk ldrh gA bl 90 ifr'kr vknrk I Hkh vf/kd gku ij Hkh vkIkuh I mxk;k tk ldrk gA

vk"kf/k; fj'kh [kEc $\frac{1}{4}$ xukMek' Y; /hMe $\frac{1}{2}$

;g fo'o dh lokf/kd ykdfi; vk"kf/k; [kEc g fun'kky; e bl [kEc dk fu;f=r okrkoj.k e ydMh d cjk ij mxku dh rduhd miyC/k gA bl d mRiknu d fy; xe $\frac{1}{30}$ & 35° lfyI; l $\frac{1}{2}$ o vkn $\frac{1}{90}$ & 95 ifr'kr vknrk $\frac{1}{2}$ okrkoj.k vfr mi;Dr gA

[kEc mRiknu 0;olk; d Qk;n

vk t d ;x dh rhu leL;k; g $\frac{1}{2}$ mÜke Hkk tu] lgr o okrkoj.kA [kEc dh [krh bu rhuk dk gy gA n'k e [kEc mRiknu dk ikRlkfgr djuk pkfg,A [kEc mRiknu ,d ?kj d Hkhrj dju ;kX; df"k dk; i.kkyyh g vkj bl vU; Qlyk d leku mitkÅ Hkfe dh vko';drk ugh gkrhA vr $\frac{1}{2}$;g NkV fdI kuk o Hkfeghuk d fy, mi;Dr 0;olk; gA bl dh to ifjoru {kerk vf/kd gkrh g vkj mxu d fy; i;kx fd; tk jg inkFk $\frac{1}{4}$ df"k vo'k" $\frac{1}{2}$ d vuikr e [kEc mRiknu vPNk feyrk gA [kEc mRiknu d mijkuR 'k" cp 0;Fk tk LiV dEikLV d uke l tkuk tkrk g] dk [kkn e cnyu d ckn [krk e i;kx fd;k tk ldrk gA [kEc mRiknu cjktxkj d fy, jktxkj dk ,d vPNk lk/ku gA



[kEc d i k"kd x.k

vkt dk f'kf{kr 0;fDr viu Hkktu d ifr vf/kd tkx:d ,o lrd gA Hkktu e ik; tku oky ikf"Vd rRok dh tkudkj h iR;d f'kf{kr miHkDrk pkgrk g ft ldk mI Hkkt; inkFk dh ekx rFkk eY; ij fo'k"i iHkko iMrk gA [kEc gekj n'k d fy; ,d uohu [kk| inkFk g ft l ;fn Hkktu d :i e ipfyr rFkk ikR l kfg r djuk g rk bld fof'k"V ikf"Vd ,o vk"kf/k; x.kk dk ipkfjr djuk gkxkA ;gk ij ;g Hkh mYy[k djuk mfpr gkxk fd fodflr n'kk dh ryuk e ifr 0;fDr [kEc dh [kir Hkktjr e cgr de gA phu e yxHkx 10 fdykxke] fo'o e 2&3 fdyk xke ifr 0;fDr ifr o"i dh ryuk e Hkktjr e ek= 40&50 xke [kir gkrh gA bld x.kk d ckj e mfpr ek;/e ,o rjhd l ykxk dk voxr djuk l [kEc dh [kir c<xhA fd l h Hkh [kk| inkFk d ikf"Vd x.kk d eY;kdu gr ik"i.k foKku e loekU; rjhdg g fd mle fdru 'k"d rRo $\frac{1}{4}$ MkbeVj $\frac{1}{2}$] Åtk $\frac{1}{4}$ dykjht $\frac{1}{2}$] ikVhu] 'kdjk $\frac{1}{4}$ dkckgkbMVl $\frac{1}{2}$] olk $\frac{1}{4}$ QV $\frac{1}{2}$] j'kk $\frac{1}{4}$ Qkbcj $\frac{1}{2}$ foVkfU l rFkk [kfut rRo $\frac{1}{4}$ feujYl $\frac{1}{2}$ ik; tkr gA

Åtk $\frac{1}{4}$ dykjht $\frac{1}{2}$

ekuo dk 'kkjhfd ,o ekufld dk; dju d fy; Åtk pkfg, tk mld e[; [kk| inkFkk t l xg] pkoy] eDdh] vky bR;kfn 'kdjk&vk/kkfjr rFkk ryh; [kk| t l exQyh] ?kh] l k;kchu bR;kfn l feyrh gA [kk| inkFk e LVkp] 'kxj rFkk ry Åtk d e[; lkr gA tgk rd [kEc dk i'u g og ,d cgr de Åtk dk L=kr $\frac{1}{4}$ yk dykj h QM $\frac{1}{2}$ g D;kfd ble ikuh vf/kd $\frac{1}{4}$ 90 ifr'kr $\frac{1}{2}$] 'k"d vo;o de $\frac{1}{4}$ 10 ifr'kr $\frac{1}{2}$ vkj olk de $\frac{1}{4}$ 0-6 ifr'kr $\frac{1}{2}$ gA [kEc dh Åtk e deh vfHk'kki ugh vfir ekVki d f'kdj ykxk d fy; ojnku gA LVkp rFkk 'kdjk tk [kEc e u d cjkcj g ft l d dkj.k ;g e/keg d jkfx;k d fy; mÙke gA ol Hkh e/keg d jkxh dk de Åtk&vf/kd ikVhu $\frac{1}{4}$ yk dykj h&gkb ikVhu $\frac{1}{2}$ [kku dh lykg nh tkrh g tk [kEc e ik;h tkrh gA olk de g] FkkMh gh lgh vPNh x.koUkk dh olk g rFkk dkyLVky&foghu gA bu rhuk x.kk d dkj.k gn; jkx d ifrj{k.k rFkk fuokj.k gr [kEc ,d mÙke vkgkj gA

[kEc dh lkekU; ikf"Vd ljpuk

ikuh	&	90 ifr'kr
'k"d vo;o	&	10 ifr'kr
ikVhu	&	2-5&3-0 ifr'kr
dkckgkbMV	&	4&6 ifr'kr
olk	&	0-4&0-6 ifr'kr
j'kk	&	1 ifr'kr
[kkd	&	1 ifr'kr

ikVhu

[kEc dk gekj Hkk tu e okLro e ikVhu d L=kr d : i e egRo gA Åtk d fy; ge jkVh] pkoy dk i;kx djr gA [kEc e lkeU; lfc t;k dh ryuk e ikVhu dh ek=k vf/kd gA [kEc e yxHkx 2-5& 3-0 ifr'kr ikVhu ik;h tkrh gA l[kh gb f<xjh vkj vU; l[k [kEck e ikVhu 20&30 ifr'kr gk tkrh gA ikVhu dh ek=k l vf/kd mldh x.koUkk egRoi.k gA ikVhu 20 idkj d vehuk vEy l feydj curk g ftue l 9 dk vko';d vEy ekuk tkrk g D;kfd gekj 'kjhj e budk mRiknu ugh gkrkA ouLifr ikVhu e dN vko';d vehuk vEy dh deh kb tkrh g tll xg vkj pkoy e ykblhu rFkk fVIVkQu dh deh g mllh rjg nkyk e fefFk;kuhu rFkk fllVhu dh deh gA [kEc e lHkh vko';d vehuk vEy ik, tkr gA x.koUkk d ekin.M ij n/k dk 100 ekudj vU; [kk l inkFkk dh ryuk dh tkrh gA

[kk l inkFk		ikVhu dh x.koUkk ¼okl;kykft dy oY;½
1-	n/k	100
2-	ehV] eNyh] exk	80&85
3-	[kEc	82
4-	xg@pkoy	40&45
5-	nky	50&55

mijkDr lkj.kh l ;g Li"V gk tkrk g fd [kEc d ikVhu dh x.koUkk mUke gA [kEc d ikVhu dh x.koUkk blfy; vPNh g fd ble lHkh vko';d vehuk vEy ik; tkr gA bl dh ikVhu e ,d vkj fo'k" k ckr g fd ykblhu uked vehuk vEy dh cgyrk g ftll ;g Hkkjr tll n'k tgk xg vkj pkoy e[; vkgkj g vkj ftue ykblhu dh deh gkrh g] d fy; vfr mUke vkgkj gA l{ki e ge ;g dg ldr g fd [kEc ykblhu l Hkkjij vPNh x.koUkk dh ikVhu dk vPNk L=kr gA

foVkfue l

[kEc lfc t;k e foVkfue Mh dk ,dek= L=kr gA [kEc e foVkfue ch&dEiyDI dh ipjrk gA ol yxHkx lkj dod ch&dEiyDI l Hkkjij gA ble Fkkbehu] jkbckT]yfou] fu;kflu bR;kfn ch&dEiyDI foVkfue ipj ek=k e ik; tkr gA lcl egRoi.k ckr ;g g fd ble Qkfyd ,flm rFkk ch&12] ik; tkr gA lk/kj.kr;k 'kkdkgkjH Hkk tuk e Qkfyd ,flm rFkk ch&12 ugh ik; tkrA [kEc e bu nkuk foVkfuek d lFk vk;ju rFkk ikVhu ik; tkr g bl rjg ghekXykfcu cuku d lHkh vo;o miyC/k gA blfy, [kEc ghekXykfcu dh deh ¼,uhe;k½ gr vfr mUke [kk l inkFk gA blfy; ,uhe;k d jfx;k d fy; [kEc ,d mUke vkgkj gA

yo.k rRo

[kEc e ikVf'k;e] eXuhf'k;e dh cgyrk gA vk;ju dk ftØ igy fd;k tk pdk gA ol vk;ju dh ek=k d lFk&lFk 'kjhj d fy; bl dh miyC/krk T;knk egRoi.k gA [kEc e vk;ju rk g gh iju mldh cgr vf/kd ek=k miyC/k vk;ju ¼voycy&vkbu½ d : i e kb tkrh g ;kuh li.k vk;ju dh ek=k dk vPNk Hkkx 'kjhj d fy; miyC/k gA vU; [kk l inkFkk dh ryuk e [kEc e ikVf'k;e&lFm;e dk

vuiKr vf/kd g ¼100%1½ ;kuh lKfM;e dh ryuk e ikVf'k;e cgr vf/kd g ft l l ;g jDr&pk i ¼CyMi'kj½ e mÙke vkgkj gA

fofhkUu idkj dh [kEck d iKf"Vd rRok dh ek=k

iKf"Vd rRo	[kEc d i idkj			
	cVu	xykch f<xjh	ijkyh	f'kVkd
iKvhu ¼%½	29-14	19-59	38-10	18-85
dkckgkbMV ¼%½	51-05	64-34	42-30	63-60
o l k ¼%½	1-56	1-05	0-97	1-22
foVkfou Mh ¼1U@xke½	984	487	462-04	205
l KfM;e ¼fefyxke@fdyxke½	500-8	208-87	345-34	82-49
iKvKf'k;e ¼%½	4-21	2-70	4-16	2-10
vk;ju ¼fefyxke@fdyxke½	85-86	183-07	72-51	37-55
exuh t ¼fefyxke@fdyxke½	7-97	6-47	&	17-48
ft d ¼fefyxke@fdyxke½	79-64	162-18	94-28	89-63
f l fyfu;e ¼fefyxke@fdyxke½	1-34	&	&	&

j'kk

[kEc e j'kk dh ek=k cgr vf/kd g ¼rkt e 1 ifr'kr rFkk 'k" d e 10 ifr'kr½ ft l d dkj.k dCt e ykHknk;d gA lKfK gh j'k dk egRo Hkk tu e bl dkj.k Hkh c<x;k g fd j'kk] 'kjh dh jkxk l yMu dh {kerk ¼bE;fuVh½ c<krk gA j'kk Hkk tu dk og Hkkx g tk ikpu d ckn vo'k" cprk g vkj ey d jkLr ckgj fudyrk gA gjh&lft ;k e j'kk vf/kd gkrk gA

[kEc d vk"kf/k; x.k

mijkDr iKf"Vd egRo e fy[k g, jkxk e [kEc viuh fof'k"V ljpuk d dkj.k Hkk tu d : i e mfpR vkgkj gA bl bldk vk"kf/k; x.k ugh le>uk pkfg,A [kEc e cgr lh fof'k"V vk"kf/k; x.k ¼gcy ikiVht½ ik; tkr gA dN [kEck e ; vk"kf/k; x.k bru T;knk g fd mu [kEck dk ek= nok d : i e i;kx gk jgk gA fof'k"V [kEck e dN vk"kf/k; x.k T;knk gk ldr g yfdu 'k" [kEck e Hkh db vk"kf/k; x.k ik; tkr gA dl j ifrjk/kh {kerk} [ku e dkyLVky de dju dh {kerk} CyM 'kxj de dju dh {kerk} jDrpki de dju dk x.k] ; [kEc d cgpfpr vk"kf/k; x.k gA

vk t l l k e yxHkx 30 ifr'kr 0;kikj [kEc l fufer vk"kf/k o vU; mRikn dk g vkj 70 ifr'kr 0;kikj [kEc dk Hkk tu d : i e gA ioh ,f'k;k ¼dkfj;k] phu] tkiku] FkkbyM½ dh vk"kf/k i)fr;k e [kEck dk i;kx lcl T;knk gkrk gA fj'kh e'k:e lcl egRo i.k vk"kf/k; [kEc g vkj vk"kf/k; [kEck d 0;kikj dk 70 ifr'kr Hkkx fj'kh e'k:e dk gA



[kEc cht ¼Liku½

Ik/kkj.kr% Qly mxku gr cht dh vko'; drk gkrh gA db idkj d ik/kk e cht dh txg mud vU; fgLI t l ruk] xkB vkfn dk i; kx fd; k tkrk gA [kEc d chtk.k ¼Liku½ cur rk g exj lHkh idkj d chtk.k Qy ; kfu cflfM; kdkil'cuku e l{ke ugh gkr gA [kEc mxku gr okuLifrd io/ku rduhd dk i; kx fd; k tkrk gA loiFke 'k) dod tky ¼ekblhfy;e½ lo/ku cuk; k tkrk g vkj fQj ml mcy g, xg] cktjk] Tokj] jkb vkfn d chtk ij mxk; k tkrk g ¼fp=¼A bl idkj l r; kj fd; x; lo/ku dk gh [kEc cht ; k Liku d uke l tkuk tkrk gA



I Qy [kEc mRiknu] 'k) dod tky tk fd vf/kd inkokj nu e l{kɛ] yTtrnkj] lQn jx vkj chekfj;k ,o dhMk l jfgr gk] ij fuHkj djr k gA [kEc d dod tky dk Qy ¼cflfM;kdk i ½ l dhVv.k jfgr voLFkk e df=e ek/;e ij mxku] mldk 'kf) dj.k ,o l j{k.k dju gr dhVv.k.jfgr i;kx'kkyk ,o rduhdh tkudkj dh gkuk vR;Ur vko';d gA blfy, lHkh fd lku o e'k:e mRiknd dod tky ;k [kEc cht dk viu ?kj ij r;kj ugh dj ldr rFkk [kEc cht ¼Liku½ iklRk dju gr mUg ljdkjh ;k xj&ljdkjh [kEc cht mRiknd lLFkkvk l enn yuh iMrh gA

[kEc d Liku dk n[kdj [kEc dh x.koUkk dk i.kr% ij[kk ugh tk ldr blfy, fd lku o e'k:e mRikndk dk vPNh o fo'oluh; lLFkkvk l gh Liku [kjhnuk pkfg,A

[kEc dod tky lo/ku cukuk

'k) lo/ku cuku d fy, lcl igy dod tky d fodkl d fy, mfpr df=e ek/;e dk r;kj fd;k tkrk gA bl dk; d fy, db idkj d ek/;e vR;Ur lxe gA ftue l dN ek/;ek d cuku dh fof/k fuEufyf[kr g %&

d% ikVVk MDIVk l vxj ek/;e

vky	=	200 xke
vxj vxj ikÅMj	=	20 xke
MDIVk l	=	20 xke
'k) ikuh	=	,d yhVj

bl fof/kul kj 250 xke vky dk /kkdj] fNydk mrkj dj] NkV&NkV VdMk e dkV fy;k tkrk gA djhc 200 xke vky dk rkydj vk/k yhVj ikuh e 15 feuV rd mcky k tkrk gA bl h idkj ,d nlj cru e vk/k yhVj mcyr ikuh e vxj vxj ikÅMj ,o MDIVk l feyk;k tkrk gA vky d vd dk Nku dj bl feJ.k e feykdj ikuh dh ek=k dk ,d yhVj dj fy;k tkrk gA rRi'pkr vkVvDyo e 15&20 feuV rd 121° lfy l; l rkieku ij j[kk tkrk gA bl idkj l r;kj df=e ek/;e ij [kEc dod tky lo/ku cuk;k tkrk gA

[k% ekYV vdl ek/;e

ekYV	=	25 xke
vxj vxj ikÅMj	=	20 xke
'k) ikuh	=	1 yhVj

mcyr g, ikuh e ekYV d vd dk ikp feuV rd mcky k tkrk gA vxj vxj ikÅMj dk dkp dh NMh l fgykr g, feJ.k e feyk fn;k tkrk gA rRi'pkr bl ek/;e dk ij[kufy;k e yxHkx 10&15 feOyh0 ifr ij[kuyh d fg lkc l vkj ŋy kLdk e vk/k fgLLk rd Hkj dj :b dk <Ddu cukdj cUn dj fn;k tkrk gA bu ij[kufy;k ,o ŋy kLdk dk vkVvDyo e Mkydj 15 ikM ifr ox bp d nokc

ikjfeHkd [kEc mRiknu

ij 15&20 feuV d fy, j[kdj thok.k jfgr fd;k tkrk gA bl idkj ij[kufy;k ,o ŋyKLd lo/ku
cuku d fy, r;kj dh tkrh gA

x½ [kkn ¼dEikLV½ vd! ek/;e

dEikLV [kkn = 150 xke
vxj vxj ikÅMj = 20 xke
'k) ikuh = 1 yhVj

[kkn dk nk yhVj ikuh e rc rd mcky tkrk g] tc rd ikuh mMdj ,d yhVj jg tk;A rRi'pr
bl [kkn d vd dk ckjhd diM l Nku fy;k tkrk gA bl vd dk nkckjk mkydj vxj vxj ikÅMj]
dkp dh NMh dh enn l /khj&/khj feyk fy;k tkrk gA bl ek/;e dk ij[kufy;k ,o ŋyKLd e Mkydj
vkVkdYo e j[kdj futohdr fd;k tkrk gA

bu df=e ek/;ek d vykok vU; db df=e ek/;ek dk p;u fd;k x;k g bue l ie[k g xg vd
ek/;e ¼xg dk vd & 32 xke] vxj vxj ikÅMj & 20 xke] 'k) ikuh & ,d yhVj½] pkoy fNydk vd
¼pkoy fNydk & 200 xke] thyfVu & 20 xke] 'k) ikuh & ,d yhVj½ vkfNA bu ek/;ek dk Hkh [kkn
d vd t l ikuh e mcky dj thok.kjfgr dju d i'pr dod tkyuku d fy, i;kx fd;k tkrk
gA

'k) dod tky lo/ku fof/k;k

v½ mÙkd lo/ku ¼fV'k dYpj½

'k) dod tky mxku d fy, okuLifrd io/ku rduhd dk i;kx fd;k tkrk gA bl fof/k l cht
cuku d fy, [kEc dh Vkih dk 0-1 ifr'kr ejD;jd DykjbM l thok.k jfgr fd;k tkrk gA ru ,o
Vkih d chp ¼xy½ l okuLifrd fgLI dk ydj df=e ek/;e e iVhlyVI e 25° lfyI; l ij m"ekf;=
¼ch-vk-Mh-½ e 4&5 fnu d fy, j[k fn;k tkrk gA rRi'pr fdukj ij mxr g, dod tky dk lko/kkuh
l fdVv.k&jfgr i;kx'kkyk e ij[kufy;k e LFkkukUrfjr dj fn;k tkrk gA bu ij[kufy;k dk :b d
<Ddu l cUn dj d m"ekf;= e 25° lfyI; l rkiØe ij yxHkx 14 l 18 fnu rd j[kk tkrk gA bl
chp dod tky d ckjhd j'k ijh rjg l Qy tkr gA bl gh mÙkd lo/kuK dgr gA

c½ chtk.k lo/ku ¼Likj dYpj½

l Hkh chtk.k [kEc dh Vkihuku e l{ke ugh gkr D;kfd Vkihuku d fy, t:jh x.kl=
vyx&vyx chtk.kvk e mifLFkr gkr g blfy, ,d chtk.k d dod tky l [kEc cht ugh cuk;k
tkrA vud chtk.kvk d feJ.k l cuk; x; cht dk Qly mxku d fy, i;kx e yk;k tk ldrk gA
bl fof/k l chtk.k lo/ku r;kj dju d fy, [kEc dh Vkih e f>Yyh l <d g, iÙknkj xyQMk e
vI[; chtk.k gkr g tk fd Vkih dh ifjiDork dh voLFk e f>Yyh QVu ij uhp fxj tkr gA
i;kx'kkyk e bu chtk.kvk dk thok.k jfgr dxxt ;k iVhlyV e bdBBk fd;k tkrk gA bl Likj fiUV
¼chtk.k Nki½ dk ikp&nI fe0yh0 ikuh e ?kkydj mfpr ek/;e e feyk;k tkrk gA chtk.k oky bl

ek/;e dk futeɦdr iVɦlyVɦ e 25° l fY l; l ij m"ekf;= e 4&5 fnu j[kk tkrk gA rri'pkr rth l mxr g, dod tky d NkV l VdM dk ek/;e d l kFk l ko/kkuh iod ij[kufy;k e LFkkukUrfjr dj 25° l fY l; l ij 15&20 fnuk rd m"ekf;= e mxk;k tkrk gA bl fof/k dk cgcht.k.k lo/ku ;k eYVh Likj dYpj d uke l tkuk tkrk gA

[kɛc cht ¼Liku½ r;kj djuk

[kɛc d cht dk r;kj dju d fy, vud idkj d vukt t l xg] ckt jk] Tokj] jkb vkfn ;k ydMh d cjkn vkfn dk i;kx fd;k tkrk gA ik;½ [kɛc dk cht xg d nkuk ij cuk;k tkrk gA xg d nkuk dk igy l kQ fd;k tkrk g fQj VV&QV nkuk dk ckgj fudky fn;k tkrk gA xg l nxuh ek=k e ikuh Mkydj 15&25 feuV rd ¼tc rd nku vk/k id tk, ij QV ugh½ mckyk tkrk g bld i'pkr tkyh ij nkuk dk iyV fy;k tkrk g] ft l l vfrfjDr ikuh ckgj fudy tk;A bu mcy nkuk dk l kQ diM ij Nk;k e 4&6 ?k.V rd l [kk;k tkrk gA bld i'pkr bu nkuk e 2 ifr'kr ftlle ¼dfY'k;e lYQV½ rFkk 0-5 ifr'kr ekjoy ikÅMj ¼dfY'k;e dkckuV½ vPN l feyk nr gA ;fn 100 fdykxke l [kk xg mckyu d fy, j[kk g rk ble 2 fdykxke ftlle o vk/kk fdykxke dfY'k;e dkckuV feykuk pkfg,A bu j l k;uk dk feyku l u doy xg d nkuk dh vEyh;rk o {kkjh;rk Bhd jgxh vfir ;g nkuk dk vkil e tMu l Hkh jkdxA vc bu nkuk dk Xydk t ;k n/k dh ckry e yxHkx 300 xke ifr ckry d fg l k l Hkj dj ikuh u l k[ku okyh :b d <Ddu l cUn dj fn;k tkrk gA vc bu ckryk dk 22 ikM ifr ox bp d nkc ij vkVkdYo e 1½ l 2 ?k.V d fy, j[kk tkrk g bld i'pkr bu ckryk dk vkVkdYo l fudky dj B.Mk gku d fy, j[k fn;k tkrk gA ckryk dk rkieku l kEJ;gk tku ij gh bu ckryk dk i;kx ekLVj lo/ku cuku d fy, fd;k tkrk gA vc ij[kufy;k e igy l r;kj 'k) dod tky lo/ku dk fuo'ku lb dh lgk;rk l ek/;e d l kFk bu ckryk e Mky nr gA bu ckryk dk bl idkj l fgyk;k tkrk g fd dod tky xg d nkuk e nc tk;A vc bu ckryk dk 25° l fY l; l ij m"ekf;= e j[kk tkrk gA 5&7 fnu ckn bu ckryk dk bl idkj fgyk;k tkrk g fd mxrk gvk dod tky vf/kd l vf/kd nkuk l lEid LFkkfir dj yA ckryk dk fgykdj iu½ m"ekf;= e j[k fn;k tkrk gA yxHkx rhu l lrg e ekLVj lo/ku ¼ekLVj Liku½ r;kj gk tkrk gA

chtkb! gr; mi;Dr cht cukuk

chtkb d fy, cht cuku gr xg mckyu l ydj j l k;u feyku rd dh ifØ;k ekLVj Liku d leku gh gkrh gA ijUr dkp dh ckryk dh txg ikyh ikikbyhu d fyQkQk dk i;kx fd;k tkrk gA bu fyQkQk e lfo/kku l kj 250] 500 ;k 1000 xke cht Hkj fn;k tkrk gA cht fyQkQ dh {kerku l kj gh Hkj tkrk gA xg Hkj r le; fyQkQk dk fo'k" /;ku j[kk tkrk g fd fyQkQ yxHkx vk/k [kkyh jgA bu fyQkQk ij ekV lykflVd dh NYy ftudh rT;k vk/kk bp d yxHkx gkrh g] e fijkg fy, tkr g vkj fyQkQ d [ky flj dk ckgj dh rjQ iyV fy;k tkrk g] ft l l fyQkQ dk eg fuf'pr vkdkj y yrk gA vc ikuh u l k[ku okyh :b d <Ddu ¼lyx½ l fyQkQ d eg dk cUn dj fn;k tkrk gA

bu fyQkQk dk j l k;u e fey xg d l kFk 22 ikM ifr ox bp d nkc ij vkVkdYo e 2 ?k.V rd thok.k jfgr fd;k tkrk gA bu fyQkQk d B.Mk gku ij futeɦdr fuo'ku dej e yfeukj ɽyk dh

स्पोन बनाने की प्रक्रिया



परिपक्व मशरूम

1



मातृ कल्चर

2



गेहूँ उबालना व पानी
निधारना

3



उबले गेहूँ में रसायनों को मिलाना
व लिफाफों में भरना

4



उबले गेहूँ भरे लिफाफों
का निर्जीवीकरण

5



निर्जीवीकृत गेहूँ के लिफाफों में मातृ
कल्चर से निवेशित करना

6



निवेशित लिफाफों को वृद्धि हेतु
निवेशन कक्ष में रखना

7



तैयार मातृ स्पोन

8



मातृ स्पोन से कॉमर्शियल
स्पोन बनाना



उपरोक्त प्रक्रियाओं
को दोहराते हुए
मातृ कल्चर के
स्थान पर मातृ
स्पोन का प्रयोग
कर कॉमर्शियल
स्पोन बनाना



तैयार कॉमर्शियल स्पोन

mifLFkfr e y tk;k tkrk gA igy l cuk; ekLVj lo/ku dh ckry dk [kkydj dkp dh NMh l ekLVj lo/ku d nkuk dk vyx&vyx fd;k tkrk gA ble l dN nku iR;d ikyhikikbyhu d fyQkQk e Mky fn;k tkrk gA bu fyQkQk dk Hkh ekLVj lo/ku dh ckryk dh rjg 25° lfyI;l d rkieku ij m"ekf;= e 2&3 lIrkg d fy, j[kk tkrk gA bl idkj r;kj cht chtkb d fy, mi;kx e yk; tkr gA 'k) lo/ku dk 'or iry j'keh rUrvk d : i e igpkuk tkrk gA ftu ckryk ;k fyQkQk e vU; jx t l ihyk] gjk] dkyk] xykch] Hkjk jx dk dod tky Qyrk fn[kkb n mUg fudky nuk pkfg,A

cht dk Hk.Mkj.k rFkk ifjogu

tgk rd gk ld rkt cht dk gh i;kx e ykuk pkfg,A ;fn vf/kd ek=k e cht dk mRiknu 0;olkf;d rkj ij djuk gk rk cht dk 4&6° lfyI;l ij 4&6° ekg rd j[kk tk ldrk gA lXg.k vFkok Hk.Mkj.k djr le; [kEc d cht dk 25° lfyI;l ;k bli vf/kd rkieku ij dHkh Hkh ugh j[kuk pkfg,A tgk rd gk ld ifjogu d nkjku cht dk i'khfrr xkMh e gh ,d LFkku l nlj LFkku rd y tkuk pkfg,A ;fn cht dh ek=k de gk ;k i'khfrr xkMh miyC/k u gk rk Liku dk ifjogu 'kke dk ;k jkf= d le; djuk pkfg,A D;kfd jkr d le; rkieku lgt gh de gk tkrk gA dkf'k'k djuh pkfg, fd ifjogu d rjUr ckn gh [kEc dh chtkb igy l r;kj [kkn e dj nuh pkfg,A

,d ckj Hk.Mkj fd; x; cht dk ifjogu mijkUr iu% Hk.Mkj.k d fy, ugh j[kuk pkfg,A ;fn vf/kd ek=k e [kEc cht dk ifjogu djuk gk rk goknkj fMCck ;k ckjk dk i;kx djuk pkfg,A



'or cVu [kEc dh ipfyr mUur fdLe dh ie[k fo'k"krk,

Hkkjr e e[;r% 'hrdkyhu 'or cVu [kEc $\frac{1}{4}$,xfjdI ckbLkjI $\frac{1}{2}$ dh [krh dh tkrh g rFkk bldk okf'kd mRiknu dy [kEc mRiknu dk 90 ifr'kr gA bldh nljh itkfr ,xfjdI ckbVkfIdI $\frac{1}{4}$ xh"edkyhu 'or cVu [kEc $\frac{1}{2}$ Hkh vc ipfyr gku yxh g ftId Qyu d fy; 4&6⁰ IfYI;I vfk d rkiØe dh vko';drk gkrh gA bl [kEc dh ie[k fo'k"krk, bldh T;knk BkI ,o IQn Qyudk; $\frac{1}{4}$ YVckMh $\frac{1}{2}$,oe ble pkV yxu I bldk jx Hkj ugh gkrk g rFkk [kEc dk 2&3 fnu rd dej d rkieku ij j[kk tk ldrk gA

e'k:e mRiknd }kjk iklr [kEc dh mRikndrk ,o x.koÜkk [kEc dh fdLe dh vkuokf'kd Ijpuk vkj i;koj.k ft le fd [kEc dk mxk;k x;k g] ij fuHkj djrh gA [kEc dh fdLe dk x.k] 0;ogkj ,o mldh mit [kEc d lEi.k thuk $\frac{1}{4}$ thukVkbi $\frac{1}{2}$ vkj i;koj.k d e/; vUr% fØ;kvk dk ifj.kke gkrk gA

v $\frac{1}{2}$ 'or cVu [kEc $\frac{1}{4}$,xfjdI ckbLkjI $\frac{1}{2}$ dh ie[k mUur fdLe:

1- ,I&11

;g ,d mPp mRiknu'khy fdLe g tk fd iklpjhdr ,o viklpjhdr nkuk gh idkj dh [kkn $\frac{1}{4}$ dEikLV $\frac{1}{2}$ ij vPNh mit nrh gA bldh vklr mit Øe'k% 15&18 fdykxke ,o 8&10 fdykxke e'k:e ifr 100 fdykxke iklpjhdr ,o viklpjhdr dEikLV ij Øe'k% 8&10 Qyu lIrk g e vkrh gA bl fdLe dh ie[k x.k bl idkj g% yEck ruk] ihfy; I & LVkbi vuikr 2%17] tyok; d ifr lgu'khyrk] [kEc Qyudk;k dh tYnh [kyu dh iofÜk bR;kfnA

2- ,I&76

;g ,d mRiknu'khy fdLe g tk fd viklpjhdr dEikLV ij 8&9 fdykxke ,o iklpjhdr dEikLV ij 14&16 fdykxke e'k:e ifr 100 fdykxke dEikLV dh nj I 8&10 lIrk g e mRiknu nrh gA ;g fdLe ihyh QQn uked jkx d ifr jkxxkgh gA

3- ,I&310

;g ,d mRiknu'khy fdLe g ftldh mRikndrk viklpjhdr dEikLV ij 7&9 fdykxke ,o iklpjhdr dEikLV ij 14&18 fdykxke gA Qyudk; vklr nt d rFkk 'kh?k [kyu oky gkr gA

4- ,l&791

;g ,d mPp Qyu'khy fdLe g tk fd ikLpjhdr ,o vikLpjhdr nkuk gh idkj dh dEikLV ij vPNk mRiknu nrh gA 8&10 Ilrkg e bldk mRiknu vikLpjhdr dEikLV ij 8&9 fdykxke ,o ikLpjhdr dEikLV ij 15&19 fdykxke e'k:e ifr 100 fdykxke [kkn ij ik;k x;k gA Qyudk; lkeU; r% cMh ,o Bkl] ruk ,l&11 l NkV ,o ekV gkrk gA

5- ,e-, l-&39

;g Hkh mPp Qyu'khy fdLe gA bldh mRiknu {kerk 8&10 Ilrkg e Øe'k 8&9 fdykxke ,o 15&18 fdykxke e'k:e ifr 100 fdykxke vikLpjhdr ,o ikLpjhdr dEikLV ij Øe'k ik;h x;h gA

6- ih-&1

;g Hkh mPp Qyu'khy fdLe g ft le vikLpjhdr rFkk ikLpjhdr dEikLV ij Øe'k 6&8 fdykxke ,o 16&18 fdykxke e'k:e 8&10 Ilrkg e iklr gk tkr gA

7- ,u-lh-, l-&100

;g ,d mPp mRiknu'khy ^,dy ch t.k.k p;u^ gA tk fd [kEc vul/kku fun'kky;] lkyu] fg-i-] }kjk fodflr fd;k x;k gA ;g y?k fof/k }kjk r;kj dEikLV ¼ikLpjhdr [kkn½ ij mxkku gr mi;Dr g rFkk yEch fof/k }kjk r;kj [kkn ij Hkh vPNh inkokj nrh gA bldh mRiknu {kerk 12&18 fdykxke e'k:e ifr 100 fdykxke ikLpjhdr dEikLV ij 8&10 Ilrkg e gA igy 1ly'k e vf/kd mRiknu gkrk g] Qyudk; Bkl] ru NkV o vklr otu 7-2 xke gkrk gA

8- ,u-lh-, l-&101

;g Hkh [kEc vul/kku fun'kky;] lkyu] fg-i-] }kjk fodflr ,d mPp Qyu'khy ^,dy ch t.k.k p;u^ gA ;g ikLpjhdr dEikLV ij mxku gr mi;Dr gA bld Qyudk; vklr nt d] Bkl] vklr otu 8-2 xke] NkV ruk] ihfy; l&LVkbi vuikr 2%28 ,o vPNh i'p Qly x.koUkk oky gkr gA bl fdLe dh vu'k l k enkuh Hkxk e 'khr _r e mxku gr dh x;h gA bldh mRiknu {kerk 12&17 fdykxke e'k:e ifr 100 fdykxke ikLpjhdr dEikLV gA

9- gkLV ;&1

;g ,d mPp Qyu'khy ^ldj [kEc^ g ft ldk fodkl uhnjy.M e fd;k x;k Fkka bldh mRiknu {kerk 14&18 fdykxke ifr 100 fdykxke ikLpjhdr dEikLV gA ;g ldj fdLe fu;f=r i;koj.k e mxku gr mi;Dr gA ;g dfux d fy; lokUe gA bld Qyudk; vklr vkdkj ,o otu d vkj lQn jx d gkr gA

10- gkLV ;&3

;g Hkh ,d mPp Qyu'khy ^ldj [kEc^ gA bldh mRiknu {kerk 16&20 fdykxke e'k:e ifr 100 fdykxke ikLpjhdr dEikLV gA ;g ldj fdLe fu;fu=r i;koj.k e mxkku gr mi;Dr gA bue Qyudk; e/;e vdkj ,o otu dh gkrh g tk fd rkt : i e cpu gr mi;Dr gA

11- ,u-lh-,p&102

;g ,d mPp Qyu'khy ^ldj [kEc^ gA bldk fodkl [kEc vul/kku fun'kky;] lkyu fg-i-] }kjk fd;k x;k gA ;g ldj fdLe ikLpjhdr dEikLV ij e[;r% igkMh Hkkxk e mxku gr vuekfnr gA Qyudk; Bkl rFkk NkV ,o ekV ru ;Dr gkrh gA bl ldj [kEc dh mRiknu {kerk 17&19 fdykxke e'k:e ifr 100 fdykxke ikLpjhdr dEikLV gA

c% xh"edkyhu 'or cVu [kEc %/,xfjd/ ckbVkf/ l% dh mUur fdLe:

1- ,u-lh-ch-&6

;g ,d mPp Qyu'khy fdLe g ft l [kEc vul/kku fun'kky;] lkyu fg-i-] }kjk fodf l r fd;k x;k gA bl fdLe e ikLpjhdr dEikLV ij lkekU; r% 12&15 fdykxke e'k:e ifr 100 fdykxke ikLpjhdr dEikLV 8&10 lirkg e iklr gkr g tk fd 2&3 y'kk e 80 ifr'kr rd mx vkr gA ;g fdLe vkHkk lh VQYI d ifr lfg".k gA Qyudk; e/;e vdkj dh rFkk ruk 3&5 lVhetVj ekVk gkrk gA

2- ,u-lh-ch-&13

;g Hkh mPp Qyu'khy fdLe g ft l fd lkuk d mxku d fy; [kEc vul/kku fun'kky;] lkyu fg-i-] }kjk ykdkfir dh x;h gA ble cM] Bkl ,o vPNh x.koUkk d e'k:e vkr gA bldh mRikndrk 12&16 fdykxke ifr 100 fdykxke ikLpjhdr dEikLV gA ;g fdLe vkHkk lh VQYI d ifr jkxxkgh gA

3- d&26

;g ,d mPp mRiknu'khy ^ldj [kEc^ g ft l dk fodkl uhnjyM e fd;k x;k Fkka ;g fdLe ikLpjhdr dEikLV ij vkl ru 14&15 fdykxke e'k:e nrh gA bldk ruk dh vi{kkdr yEck gkrk gA

4- d&32

;g Hkh ,d mPp Qyu'khy ldj [kEc g rFkk bldh inkokj 12&14 fdykxke ifr 100 fdykxke ikLpjhdr dEikLV gA ;g fdLe vPNh x.koUkk dh [kEc ink djrh g tk fd dfux d fy; mi;Dr gA

miyC/k fdLek e [kkfe;k %vox.k%

n'k e ipfyr 'or cVu [kEc dh fdLek e lkekU; r% fuEufyf[kr vox.k ik; x; g%

- 1- de mRikndrk
- 2- T;knk QIy ¼Qyu½ vof/k
- 3- [kEc dh chekfj;k ,o dhMk d ifr voj/kd {kerk dk vHkko
- 4- i;koj.k d fofHkUu vo;ok t l rkiØe] vkif{k d vknrk] dkcu MkbvkdIkbM bR;kfn d ifr lonu'khyrkA

Hkfo"; dh vko';drk,

[krh d fy; ipfyr 'or cVu [kEc dh fdLek dh mit ik; 12&16 fdyxke ifr 100 fdyxke iklPjhdr dEikLV g tk fd fodflr n'kk dh ryuk e dkQh de gA blfy; e'k:e dh vf/kd mit nu okyh fdLek@ldj [kEck d fodkl dh vko';drk gA dhV ,o chekjhu'kd jlk;uk d vlrfyr mi;kxk l vU; Qlyk dh rjg e'k:e e Hkh gkfudkj d dhMk ,o chekfj;k dh u;h&u;h mit kfr;k dk mnHko gvk gA bld vfrfjDr i;Dr jlk;uk d vo'k"e'k:ek e ik; x; gA blfy; vf/kd mit nu okyh fdLek ,o ldj [kEck] tk fd jkxk ,o dhV d ifr lg".k gk] dk fodflr dju dh t:jr ij cy nuk t:jh gA



'or cVu [kEc mRiknu gr [kkn r;kj djuk

vU; dodk dh rjg [kEc Hkh ,d ijkf"kr tho g vkj ;g mfpr [kkn ij gh ink dh tk ldrh gA [kEc dh [kkn df"k vo;ok l cukb tkrh gA mijkDr vo;ok ij lh/k gh [kEc ugh mxk; tk ldr D;kfd [kEc mxku d fy, bu vo;ok dk lMkuk xykuk vko';d gA bl lMku xyku dh ifØ;k dk l{e tho fu;fu=r djr gA ; l{e tho db egUoi.k jk lk;fud fØ;kvk d }kj bu vo;ok e miyC/k rUok dk bl idkj rkMr&tkMr g fd r;kj lkexh e [kEc d ik"k.k d fy, lHkh rUo fey tkr gA bl idkj l r;kj ek;/e@[kkn [kEc d fy, p;ukRed gkrk g ft l [kEc dh [kkn ¼dEikLV½ d uke l tkuk tkrk gA bl idkj l r;kj ek;/e doy [kEc dh inkokj e lgk;d gkrk g rFkk vU; ifrLi/kh dod bl ek;/e ij ugh vk ikrA

[kkn cuku dh vko';drk

[kEc mRiknu d fy, [kkn] xg ;k /kku d Hkl e vU; rUok dk feyk dj r;kj dh tkrh gA uhp fyf[kr dkj.kk d fy, lkexh dk lMkuk xykuk vko';d g%&

- 1- lkexh dh m"ek mRiknu dh ioFr dk lekr dju d fy,A
- 2- lkexh e fojeku rUok dk [kEc d fy, vk lkuh l miyC/k gku oky rUok e cnyu d fy,A
- 3- [kkn dk 'or cVu [kEc d fy, vfr p;ukRed ek;/e cuku d fy,A
- 4- [kkn e okfNr ikf"Vdrk] ikuh dh ek=k o vEyh;rk@{kkjh;rk ¼ih- ,p-½ dk lek;ktu dju d fy,A
- 5- [kkn dh Hkkfrd ljpuk dk bl idkj cuku d fy, ft l l [kEc cht dk lgh ek=k e ok; o ty feyrk jg rFkk 'k} ok; dh deh l cht u ejA

[kkn r;kj djuk

[kkn r;kj dju l igy ;g vko';d g fd lkexh d fy, lgh rUok dk lgh ek=k e p;u fd;k tk,A bl lkexh e xg rFkk pkoy dk Hkl k ie[k gA Hkkjr o"k e xg d Hkl ¼rMh½ dk ipyu vf/kd g D;kfd ;g vk lkuh l lHkh txg fey tkrk gA mu Hkkxk e tgk pkoy dh inkokj vf/kd g] pkoy d Hkl ¼ijkyh½ dk i;kx Hkh fd;k tk ldrk gA bl d vfrfjDr vU; vukt d Hkl t l tb] tk] Tokj ;k dkb Hkh vU; df"k O;Fk vo'k"k ftue lyykt vf/kd ek=k e gk] i;kx e yk, tk ldr gA Hkl d vfrfjDr tk lkexh bl feJ.k e Mkyh tkrh g og bl idkj g %&

1- [kkn dk lMku xyku dk l fØ;dj.k dju oky ijd

Hkl e ukbVktu o vU; vko';d rRok dh ek=k cgr de gkrh g ft l l lMku xyku dh ifØ;k cgr gh /kheh gkrh gA bl ifØ;k dk rt dju d fy, ble vU; rUo Mky tkr g tk fuEufyf[kr g %&

v½ i'k eye= dh [kkn

ble lcl ie[k g exh [kknA bl d vfrfjDr l vj o HkM&cdjh d eye= dh [kkn Hkh i ;kx e ykb tk ldrh gA bu l Hkh vo'k"kk e rRok dk l?kVu vR;Ur fhkUu gkrk g rFkk bue ukbVktu dh ek=k ,d l pkj ifr'kr rd gk ldrh gA ijUr ; l Hkh vkl kuh l l Lr e rFkk cgrk;r e miyC/k gkr gA ; lkefx;k ukbVktu d vfrfjDr dkckgkbMV Hkh nrh g vkj budk foy; /khj&/khj gkrk g ft l l l Mu xyu dh ifØ;k d nkjku vo;ok d ud l ku dh lEHkkouk de gkrh gA

c½ bu i'k eye= [kknk d vfrfjDr dN ,l h lkefx;k g ft le ik"kd rùo vkl kuh l miyC/k gkr gA ble e[;r nk idkj dh lkefx;k vkrh g

d½ dkckgkbMV cgY; l kexh

bl J.kh e l hjk] c; l xu] ekYV dkiy] vky dh 0;Fk] lc o vxj dh ikel vkfn e[; gA ; l kexh [kkn d l = e dku&ukbVktu d vuikr dk lgh djrh g rFkk ykHknk;d l {e tho tYn fodflr djrh gA

[k½ ukbVktu cgY; l kexh

bl J.kh e mojd t l ;fj;k] du] vekfu;e ukbVV rFkk vekfu;e lYQV vkr gA ;g l kexh e[;r l = e ukbVktu dh ek=k dk l kexh d 'k"d Hkkj d 1-5&1-75 ifr'kr rd yku d fy, feykb tkrh gA bu lkefx;k l ukbVktu vkl kuh l l {ethfo;k d fy, miyC/k gkrh gA

l½ i'k vkgkj

bl J.kh e e[;r l Mu xyu dh ifØ;k dk rt dju oky l fØ;dkjd vkr gA ble pkdj] c; l xu ¼ l [kk½] dik l l k;k] dLVj ¼vjUM½] l j l k] vyl h vkfn d ch t p.k vkfn ie[k gA ; lkefx;k Hkh dkckgkbMV o ukbVktu dk /khj&/khj NkMrh g ft l l l budk ud l ku de gkrk g l kFk gh ; oLr, l Mu xyu dh ifØ;k dk rt djrh gA bu lkefx;k e ukbVktu 3&12 ifr'kr rd gkrh gA

n½ [kfut rùok d ijd

ble ikV'k o QkLQkj l mojd vkr g tk l = e [kfut rùok dh ek=k dk fu;fU=r djr gA ft l le Hkh bl J.kh e j[kk tk ldrk gA

2- [kkn dk l=hdj.k

mijkDr oLrvk dh ek=k bl idkj r; dh tkrh g fd l kexh e ukbVktu 'k"d Hkkj dk 1-5 l 1-75 ifr'kr rd gk rFkk dku o ukbVktu dh ek=k d chp lryu gA l Mu xyu dh ifØ;k 'k: gku l igy dku&ukbVktu e 25&30%1 dk vuikr gkuk pfg,] ;g vuikr ifØ;k ijh gku d le; 16%1 ij vk tkrk gA bu rF;k dk vk/kkj ekudj [kkn dk l = cuk;k tkrk g ft le iR;d oLr dh ek=k fuf'pr dh tkrh gA bl ifØ;k dk l=hdj.k dgr gA dEikLV ¼[kkn½ d dN l = tk vf/kd ipfyr g uhp fn, x, g

I=&1

oLr	ek=k ¼fd-xk-½	t y ¼%½	'k"d Hkkj ¼fd-xk-½	ukbVkt u ¼i- 'k-½	ukbVkt u ¼fd- xk-½
xg dk Hk l k	1000	10	900	0-4	3-6
pkdj	50	10	45	2-0	0-9
exh dh [kkn ¼chB½	420	10	378	2-6	9-83
;fj;k	18	&	18	46	8-28
ftlle	65	&	65	&	&
dy	1553		1406	6-8	22-61
ukbVkt u ¼i- 'k-½ 1-61					

I=&2

?kkM dh [kkn ¼yhn½	1000 fd- xk-
xg dk Hk l k	500 fd- xk-
exh dh [kkn ¼chB½	300 fd- xk-
;fj;k	07 fd- xk-
c; l xu	60 fd- xk-
ftlle	30 fd- xk-

I=&3

xg dk ;k pkoy dk Hk l k	1000 fd- xk-
;fj;k	15-0 fd- xk-
du	20-0 fd- xk-
l ij QkLQV	8-33 fd- xk-
E;jV vkQ ikVv'k	10-0 fd- xk-
pkdj ¼QghV cku½	50-0 fd- xk-
l hjk	16-66 fd- xk-
ftlle	100-0 fd- xk-

I=&4 ¼y/k fof/k d fy; ½

xg dk Hk l k	1000 fd- xk-
exh dh [kkn ¼chB½	400 fd- xk-
pkdj ¼QghV cku½	100 fd- xk-

;fj;k	14-5 fd-xk-
ftlle	30-0 fd- xk-

I=&5

pkoy dk Hk l k	1000 fd- xk-
pkoy dk pkdj ¼jkb l cku½	160 fd- xk-
;fj;k	17 fd- xk-
dikl dk cht p.k	20 fd- xk-
ftlle	40 fd- xk-

I=&6

pkoy dk Hk l k	1000 fd- xk-
exh dh [kkn ¼chV½	500 fd- xk-
pkdj ¼QghV cku½	50 fd- xk-
ftlle	30 fd- xk-

I=&7

xg dk Hk l k	1000 fd- xk-
pkdj ¼QghV cku½	66-6 fd- xk-
;fj;k	15-0 fd- xk-
E;jV vkQ ikVv'k	10-0 fd- xk-
l ij QkLQV	10-0 fd- xk-
du	30-0 fd- xk-
ftlle	50-0 fd- xk-

3- [kkn cuku dh fof/k;k

'or cVu [kEc mRiknu d fy, [kkn r;kj dju dh cgr l h fof/k;k gA bu fof/k;k e le;≤ ij vud ifjoru g, gA [kkn cuku dh e[;r½ nk fof/k;k g] iFke fof/k ft l dk pyu [kEc mRiknu dh 'k:vr d l kFk gvka bl fof/k }kjk [kkn yxHkx pkj l lrg e r;kj gk tkrh g rFkk ;g yEch vof/k okyh [kkn d uke l tkuh tkrh gA ckn e fu;fU=r okrkoj.k e vfrfjDr m"ek n dj [kkn dk

rkieku dN le; d fy, 60° lfyI; l rFkk mld ckn 2&3 fnu d fy, 50&55° lfyI; l ij j[kk tku yxkA bl l lMu xyu dh ifØ; k e de le; yxu yxkA bl NkVh vof/k okyh [kkn d : i e tkuk tku yxkA ;g i.kkyh yEch vof/k okyh i.kkyh l fuEufyf[kr dkj.kk l vf/kd mÙke g &

- 1- bl l [kkn r;kj dju e vi{kdr de le; yxrk gA
- 2- r;kj [kkn vf/kd ek=k e iklr gkrh gA
- 3- [kEc dh inkokj bl i.kkyh e vf/kd feyrh gA
- 4- yEch vof/k okyh [kkn e db idkj d gkfudkj d l{etho ektn jg tkr gA NkVh vof/k dh [kkn e ; gkfudkj d l{etho [kkn dk iklpjhdj.k dju l u"V gk tkr gA

%d% yEch vof/k }kjk [kkn r;kj dju dh fof/k

[kkn cuku d fy, iDd Q'k dk gkuk mfpr jgrk g rFkk Åij Nr Hkh vfr vko'; d g ft l l [kkn dk o"kk vkfn l cpko gk l dA <j cuku l 2 fnu %48 ?k.V% igy Hk l dk vPNh rjg xhyk fd;k tkrk gA xhyk djr le; Hk l dk ijk ry nck;k o elyk tkrk g ft l l Hk l }kjk ikuh vPNh rjg l k[k fy;k tkrk gA Q'k <ky gk rFkk <ky dh rjQ ,d ukyh gk tk ,d gknh e [kyrh gk rk cgr vPNk jgrk g] bl l Hk l d <j l uhp fjlr g, ikuh dk bdBBk fd;k tk l drk gA bl ikuh dk nkckjk i;kx e yku l fj l g; ikuh d ik"kd rÙo mlh [kkn e feyk; tk l dr gA <j cuku l 12&16 ?k.V igy ftile o thouk'kd nokb;k dk NkM dj vU; l kexh t l mojd] pkdj vkfn dk ikuh Mky dj xhyk fd;k tkrk g] yEch fof/k e exh dh [kkn dk mi;kx u dj rk vPNk gA

• 'kU; fnu %<j cuku dk igyk fnu%

bl fnu ydMh d rhu r[r ftudh y- x pk- x Å- 1-15x1-15x1-5 ehVj gk] dk bl idkj [kMk fd;k tkrk g fd ekuk ,d dej dh rhu nhokj gA vc xhy fd; x; Hk l e xhyh dh xb l kexh dk feyk;k tkrk g rFkk tUn %Qkd% dh lgk;rk l ydMh d r[rk d chp [kkyh txg e Hkj fn;k tkrk g rFkk gYdk&gYdk nck;k tkrk gA tc ;g txg r[r dh Åpkb rd ijh Hkj tkrh g rc nk, o ck, nkuk r[rk dk vx f[kl dk dj vkj txg cuk yh tkrh gA bl idkj tc rd Hk l k o l kexh feJ.k [kRe ugh gkr rc rd yEck <j cukr py tkr gA <j cuku d 24&48 ?k.V d vUnj gh bl <j dk rkieku c<uk 'k: gk tkrk g vkj ;g rkieku djhc 75&80° lfyI; l rd igp l drk gA <j cuku d ikp fnu ckn rd dN ugh djuk gkrk gA

• 6o fnu %igyh iyVkb%

mijkDr fof/k l cuk, <j e tc rkieku c<uk 'k: gkrk g rk ge bl rhu Hkxk e foHkfttr dj l dr g %&

- 1- **ckgjH Hkx %** ble pkjk fdukj o Åijh Hkx vkr gA bl Hkx e rkieku 40&45° lfyI; l l vf/kd ugh gkrk rFkk 'k"drk d dkj.k l{etho bl Hkx e lfyI; ugh gk ikr gA

2- e/; Hkkx % bl Hkkx e rkieku 60&65⁰ lfyI; l rd igp tkrk g vkDIhtu Hkh vklkuh l miyC/k jgrh g vkj blh dkj.k bl Hkkx e l{etho lcl vf/kd lfØ; jgr gA blh Hkkx e lMu xyu dh lfØ; k lcl rt gkrh gA

3- Hkhrjh Hkkx % bl Hkkx e rkieku 60&65⁰ lfyI; l ; k bl l vf/kd jgrk g ijUr vkDIhtu dh deh d dkj.k ok; vi?kVu ugh gkrkA

iyVkb dh bl lfØ; k e <j d iR; d fgLI dk myV&iyV dj vko'; d rkieku oky Hkkx e yuk gkrk gA bl ijh lfØ; k dk [kkn dh iyVkb dgr gA bl l u; k <j bl idkj l cuk; k tkrk g fd mijkDr rhu Hkkx vPNh rjg l , d gk tk, vkj feJ.k , d leku yxA <j cuku dh ckfd fof/k igy d leku jgrh gA

10 ok fnu % bl fnu mijkDr fof/k l nljh iyVkb nh tkrh gA

13 ok fnu % bl fnu rhljh iyVkb nh tkrh g rFkk <j cukr le; ftlle dk [kkn e vPNh rjg feyk fn; k tkrk gA

16 ok fnu % pkFkh iyVkb n dj <j cuk; k tkrk gA

19 ok fnu % ikpoh iyVkb n dj fQj l <j cuk; k tkrk gA

22 ok fnu % NBh iyVkb n dj <j cuk; k tkrk gA

25 ok fnu % l kroh iyVkb nh tkrh gA <j cukr le; <j e fy.Mu ; k ch-, p-lh ¼650&800 xke ifr Vu Hklk½ dk vPNh rjg feyk; k tkrk gA

28 ok fnu % bl fnu [kkn dk ifj{k.k vekfu; k o ikuh d fy, fd; k tkrk gA [kkn dk eBBh e ydj fupkMk tkrk gA [kkn e ikuh dh mÙke ek=k rc ekuh tkrh g tc [kkn dk fupkMu ij gFkyh rFkk mxfy; k xhyh rk gk tk; ijUr mxfy; k d chp l ikuh u fudyA bl le; [kkn e ikuh dh ek=k 62&64 ifr'kr rd gkrh gA vekfu; k dk ijh{k.k dju d fy, [kkn dk gkFk e ydj l?kk tkrk gA l?ku ij ;fn vekfu; k dh c ¼xU/k½ vk jgh gk rk [kkn dk 2&3 fnu d vUrj ij , d ; k nk iyVkb ; k tc rd vekfu; k dh c ¼xU/k½ [kRe ugh gkrh] iyVkb nr jgr gA vf/kd ikuh o vekfu; k nkuk [kEc d cht d fy, gkfudkj d g rFkk cht dk Qyu l igy fuf'Ø; dju e l{ke gA bud vfrfjDr [kkn dh vEyh; rk@{kkjh; rk ¼ih-, p½ ukiuk Hkh cgr vko'; d gA mÙke [kkn dh ih-, p- 7&7-8 rd Lo; igp tkrh gA tc [kkn r; k j tk tk, rk ml B.Mk dj d 25⁰ lfyI; l rkieku ij yk; k tkrk gA vc ; g [kkn cht kb d fy, r; k j gA

● **yEch fofèk }kjk r; k j [kkn dk jklk; fud mipkj**

ik; % ; g n[kk x; k g fd mDr fofèk l cukb xb [kkn e db rjg dh chekfj; k ft le ihyh QQn e[; g] ?kj dj yrh g vkj [kEc mRiknu dk ?kVkrh gA ; g Hkh n[kk x; k g fd bl chekjh l db ckj Qly

gh ugh vkrh g vkj mRiknu 'kU; jg tkrk gA , l h ifjLFkfr e e'k : e mRiknu l ?kkj fujk'kk gku yxrh gA [kEc vul/kku fun'kky;] lkyu u [kkn e yxu okyh ihyh QQn vkj vU; db chekfj;k l futkr iku d fy; , d l kkkj.k jklk;fud fofek fodflr dh gA

bl fof/k d vul/kj [kkn tc i.k : i l r;kj gk tk; rk ml Q'k ij Qyk n vkj djhc 40 yhVj ikuh e 1-5 yhVj Qkeyhu o 50 xke ckfoLVhu dk ?kky cuk yA vc bl ?kky dk ijh [kkn ij ¼1 Vu [kkn½ vPNh rjg l Li djr g; feyk;A bl d ckn bl [kkn dk , d <j cuk y vkj bl ikyhFkhu 'khV ;k f=iky l nk fnu d fy; <d nA nk fnu d ckn ikyhFkhu 'khV gVn vkj cyp l iyVkb dj vkj ckn e bl [kkn e fctkb dj nA

bl mipkj l ihyh QQn vkj vU; chekfj;k d idki l cpk tk l drk g vkj mit e of) gkrh gA è;ku jg fd Åij fy[kh gb jklk;uk dh ek=k 1 Vu [kkn d fy; gh gA T;knk [kkn gku ij jklk;uk vkj ikuh dh ek=k blh vuikr d vul/kj c<k;A

¼[k½ vYi vof/k l [kkn r;kj dju dh fof/k

bl fof/k e [kkn dk nk voLFkkvk e r;kj fd;k tkrk gA

1- cfg}kjh [kkn cukuk ¼igyh voLFkk½

2- Hkhrjh [kkn cukuk ¼nljh voLFkk½

cfg}kjh [kkn cukuk ¼voLFkk , d½

ble &4]&2]0]4]6]8]10o fnu dh vf/klfp dk vul/j.k uhp fn;k tkrk gA

&4 fnu % bl fnu Hkl dk xhyk fd;k tkrk gA xhyk dju dh fof/k yEch vof/k d leku gA i.k : i l xhyk gku d ckn Hkl dk [kc nck&nck dj 1-5&2 QV Åpk <j cuk nr gA

&2 fnu % <j dk rkMdj vko';drk vul/kj vkj ikuh Mkyk tkrk gA , d ckj fQj nck&nck dj 1-5&2 QV Åpk <j cuk fn;k tkrk gA

0 fnu % Hkl e vU; lkexh feyk dj ydMh d r[rk ;k ykg d ckMk dh lgk;rk l yxHkx 4&5 QV pkMk o djhc 4&5 QV Åpk <j cuk fn;k tkrk gA <j cuku dh fof/k yEch vof/k okyh ifØ;k d leku gh gA

2jk fnu % <j dk igyh iyVkb nh tkrh gA iyVu dk <x Hkh yEch vof/k okyh fof/k d leku gh gA

4Fkk fnu % nljh iyVkb nh tkrh gA

ikjfeHkd [kEc mRiknu

6ok fnu % rhIjh iyVkb nh tkrh gA <j cukr le; [kkn e ftlle dk vPNh rjg feyk fn;k tkrk gA

8ok fnu % pkFkh iyVkb nh tkrh gA

10ok fnu % bl fnu [kkn dk Hkhrjh voLFkk $\frac{1}{4}$ voLFkk nk $\frac{1}{2}$ d fy, fu;fU=r okrkoy.k oky dej $\frac{1}{4}$ ikLpjhdj.k d{k $\frac{1}{2}$ e Hkjk tkrk gA

Hkhrjh [kkn cukuk $\frac{1}{4}$ voLFkk nk $\frac{1}{2}$

;g ifØ;k fu;f=r okrkoy.k oky ikLpjhdj.k dejk e ijh dh tkrh gA bl fof/k e [kkn dk lh/kk gh ikLpjhdj.k dej e Hkjk fn;k tkrk gA bl fØ;k dk cYd ikLpjhdj.k d uke l tkuk tkrk gA ikLpjhdj.k d fuEufyf[kr ykHk g %&

- 1- [kkn e db idkj d vokfNr ijthoh t l l=dfe] ifrLi/kh dod] jkx dkjd thok.k rFkk efD[k;k vkfn gkr g ftUg ikLpjhdj.k l lekr fd;k tk ldrk gA
- 2- [kkn dk [kEc dod d fodkl d vudy rFkk gkfudkj d dodk d fodkl d ifrdy cuk;k tkrk gA
- 3- vekfu;k dk vf/kd l {kerk l l {ethoh ikVhu e ifjofrr fd;k tkrk gA

cYd ikLpjhdj.k

bl fof/k e [kkn dk ikLpjhdj.k dej e 6&7 QV $\frac{1}{4}$ dy Åpkb dk 3@4 $\frac{1}{2}$ rd Hkjk fn;k tkrk g vkj ml d ckn [kkn e FkekehVj dh NM ?k l k nh tkrh g o [kkn d Åij [kkyh LFkku e Hkh FkekehVj dh NM gok e yVdk nh tkrh g rkfd dej o [kkn dk rkieku ukik tk l dA [kkn Hkju d ckn dej dk vPNh rjg l gok cn dj fn;k tkrk g vkj i [kk $\frac{1}{4}$ Cykvj $\frac{1}{2}$ pyk fn;k tkrk gA djhc 5&6 ?k.V e [kkn o gok $\frac{1}{4}$ ikLpjhdj.k d{k dh $\frac{1}{2}$ dk rkieku 45&48° lfy l ; l rd igp tkrk gA bl d ckn djhc 10% ckgjh LoPN ok; MEij d }kjk [kkn e vkj dej e io'k djok nh tkrh gA bl l [kkn dk rkieku c<u yxrk g vkj djhc 10&12 ?k.V e [kkn dk rkieku djhc 59° lfy l ; l rd igp tkrk gA bl rkieku ij [kkn dk 4&6 ?k.V d fy; j [kk tkrk gA bl nkju [kkn e tk Hkh chekjh ink dju oky tho o dhM&edkM o l=Ñfe gkr g] ok [kRe gk tkr gA vxj [kkn dk rkieku Lo; 59° lfy l ; l rd ugh igprk g rk ck;yj dh enn l Hkki d }kjk bl rkieku dk ik fy;k tkrk gA bl d ckn e [kkn dk rkieku 45&48° lfy l ; l rd yk;k tkrk gA bl d fy; MEij }kjk LoPN ok; dk bLreky fd;k tkrk gA bl rkieku ij [kkn dk djhc 5&6 fnu rd j [kk tkrk g rkfd [kkn l vekfu;k dk i.k : i l fudkl gk tk;A tc yx fd [kkn l vekfu;k fudy pdh g rc [kkn dk rkieku 25&28° lfy l ; l rd yk;k tkrk gA bl voLFkk e [kkn e chtkb dj nh tkrh gA

mÙke [kkn d fuEufyf[kr x.k gkr gA

श्वेत बटन मशरूम उत्पादन हेतु छोटी विधि द्वारा कम्पोस्ट तैयार करना



1

भूसे को पानी से मिगोना



2

भीगे भूसे की कम ऊंचाई की ढेरी लगाना



3

अवयवों को मिलाना



4

बोर्ड की सहायता से ढेरी बनाना



5

5२ग5२ आकार की तैयार ढेरियाँ



6

कम्पोस्ट का पाश्चुराईजेशन



मशरूम उत्पादन हेतु तैयार कम्पोस्ट

ikjfeHkd [kEc mRiknu

1½ [kkn dk jx xgjk Hkjk gkA

2½ [kkn e ikuh dh ek=k 62&64 ifr'kr gkA

3½ r;kj [kkn e ukbVktu dh ek=k 2&2-5 ifr'kr rd gkA

4½ [kkn e vekfu;k dh c u gkA

5½ [kkn dh ih-,p- 7&7-8 rd gkA

vkt dy tuekul dk okrkoy.k d ifr dkQh pruk g vkj [kEc dh [kkn cukr le; okrkoy.k inf'kr gkrk gA bu eík dk /;ku e j[kr g, bl fun'kky; u [kRc dh [kkn cuku dh ub rduhd dk fodkl fd;k g ftl bMkj dEikfLVx d uke l tkuk tkrk gA bl fØ;k l [kkn cuku l okrkoy.k e in"n.k uke ek= gh Qyrk g vkj de le; e vPNh [kkn curh gA bMkj fof/k dk ,d Qk;nk ;g Hkh g fd bl l [kkn T;nk ek=k e curh g vkj bl dkj.k fd lku dh mit e Hkh Qk;nk gkrk gA bl fof/k l [kkn 12&15 fnu e cudj r;kj gk tkrh gA bl fof/k l [kkn cuku d fy, cdj cuku dh vko';drk gkrh gA cdj dk vkdkj Vuy l M<k gkrk gA de l de ,d cdj vko';d gkrk gA

½x½ bMkj dEikfLVx&fof/k

y?k fof/k l [kkn cuku okyh lkexh dk fy;k tkrk g vkj l Hkh vo;ok dk l [k gh ,d lkFk feyk fy;k tkrk gA fQj mUg vPNh rjg l xhyk fd;k tkrk g rkfd lkefx;k e djhc 75 ifr'kr ikuh dh ek=k vk tk;A fQj bl feJ.k dk 1&2 fnu rd ckgj gh <j cuk dj j[kk tkrk gA nk fnu e feJ.k dk rkieku djhc 70&75 fMxh lfYl; l gk tkrk gA bl d ckn bl lkexh dk cdj e djhc 5&6 QhV Åpkb rd Hkj fn;k tkrk g vkj cdj d i[k dk 'k: dj fn;k tkrk gA i[kk nl feuV e 2 feuV pyrk g vkj fQj cn gk tkrk gA ;g ifØ;k 3 fnu rd pyrh jgrh gA bl nkjku [kkn dk rkieku djhc 80 fMxh lfYl; l rd igp tkrk gA rhu fnu d i'pkr mDr lkexh dk cdj l ckgj fudkyk tkrk g vkj vxj ikuh dh vko';drk gkrh g rk ml feJ.k e feyk;k tkrk g vkj fQj l bl lkexh dk cdj e Hkj fn;k tkrk gA rhu fnuk d i'pkr bl lkexh dk ckgj fudky dj Vuy e Hkj fn;k tkrk g vkj tk fof/k Cyd ikLpjhdj.k e crkb xb g ml viuk;k tkrk g bl rjg l djhc 12&15 fnuk e [kkn cu dj r;kj gk tkrh gA



0;o l k f; d cVu [kEc Qke l j puk

vkt dy fo'o e [kEc mRiknu enk vt u dk loJ"B l k/ku rFkk ,d vR;r egRoi.k vk/kkfud Qly gA [kEc u doy cgr gh ikf"Vd [kk] inkFk g vfir [kk] ,o df"k lxBu ¼,Q,-vk-½ }kjk bl ,d LokLF;o/kd ikVhu ik" k.k d :lk e vuekfnr fd;k x;k gA

[kEc mRiknu dk egRo u doy df"k mi&mRikn d i;kx e g cfYd l kFk gh l kFk bl d fy, Hkfe dh vko';drk ugh gkrh g vkj bl dk mRiknu cn dej e fu;f=r okrkoy.k e fd;k tkrk gA bl d vykok [kEc mRiknu e txg dk i;kx m/ok/kkj fn'kk e fd;k tkrk gA

[kEc mRiknu d fy, df"k ;kx; Hkfe dh vko';drk ugh iMrh g vfir ctj Hkfe dk mi;kx [kkn cuku] cht cuku] [kEc mRiknu ,o lk'p Qly mRikn d fy, fd;k tk l drk gA Hkkjr e ekleh [kEc mRiknu tkM d ekle e] tc rkieku de gkrk g fd;k tkrk g] rFkk ij o" k Hkj ;g df=e fu;f=r okrkoy.k d{kk e fd;k tkrk gA bu nkuk gh rjg d mRiknu d fy, mRiknu lfo/kkvk dh vko';drk gkrh gA

ekleh [kEc mRiknu e ykxr de gkrh g vkj mit de vkrh g rFkk fu;f=r okrkoy.k e mRiknu dju ij mit vf/kd gkrh g ,o ykxr Hkh T;knk gkrh gA

Hkkjr e d{kk e NKV Lrj ij [kEc dk mRiknu loiFke lkyu e mUuh l l k l k B d n'kd e ikjHk gvKA 'k: vkrh nkj e [kEc mRiknu ijku dejk e gok d vkokxeu d fy, dN ifjoru djd fd;k x;k rFkk mRiknu ydMh dh V e fd;k x;kA bl le; [kEc mRiknu gr [kkn yEch fof/k }kjk cuk;h tkrh Fkh ijUr ub rduhd dh tkudkjh gku d ckn [kEc dh [krh bu jkT;k e /khj&/khj xkeh.k m/kkx dk :lk yu yxhA ckn e lkyu d vl l k l d {k=k e BM okrkoy.k ,o [kEc vul/kku i;kx'kkyk gku dh otg l dN cMh [kEc bdkb;k dk ink i.k gvKA [kEc mRiknu d fodk l d bl Øe e bu bdkb;k e [kEc mRiknu d{kk dk :ikrj.k ,o [kEc bdkb dh ub Qke l j puk dk fodk l T;knk mRiknu d fy, Hkkjr dh tyok; dk n[kdj fd;k x;kA ;gk Hkkjr dh tyok; d vu:lk [kEc bdkb dh l j puk foLrkj l iLrr dh xb gA

LFkku dk puko ,o /;ku nu ;kx; rF;

,d lQy [kEc mRiknu bdkb d fy, txg d puko l igy fuEufyf[kr rF;k dk /;ku j[kuk vko';d gA

1 [kEc mRiknu dk if'k{k.k

2 iktDV fjikV cukuk

3 foRrh; Igk;rk iklr djuk

,d [kEc mRIkknu bdkb Lfkkfir dju gr Ijpuk] e'khuk] dPpk eky] etnjh ,o Åtk ij dkQh [kp vkrk g blfy, m|fe;k d fy, [kEc mRiknu d fofHkUu Lrjk ij i;kxkRed if'k{k.k vko';d gA Hkkjro"ke [kEc vul/kku fun'kky; d vykok ;g if'k{k.k fofHkUu xj Ijdkjh ILfkkuk] df"k fo'ofok|ky;k] df"k foKku dUnk] bR;kfn e fn;k tkrk gA rRi'pkr ,d foLrr iktDV fjikV] ft le fd Qke dk vkdkj] [kEc dk idkj] mRiknu rduhd ,o ykxr d ckj e ijh tkudkjh gkrh g] cukb tkrh gA ;g iktDV fjikV fd l h Hkh [kEc fo'k"K ;k Ijdkjh ILfkkuk t l [k-vu-fu- l cuokb tk l drh gA vr e iktDV fjikV d vk/kkj ij foRrh; ILfkkuk ft le jk"Vh;dr cd ,o jkT; Ijdkj d foRrh; ILfkkuk vkr g] l foUkh; Igk;rk iklr dh tk l drh gA Hkkjr e vud foRrh; ILfkkuk] fon'kh cd rFkk vU; ILfkkuk mYy[kuh; gA

Hkkjr e [kEc mRiknu d fy; vunku@_.k jk"Vh; cxxokuh ckM] Hkkjr Ijdkj(,ihMk] Hkkjr Ijdkj ,o QM lkk l f l x e=ky;] Hkkjr Ijdkj }kjk iklr fd;k tk l drk gA [kEc mRiknu gr [kEc Qke d fy, txg d puk e fuEufyf[kr ckrk dk /;ku e j[kuk pkfg;A

- 1 [kEc Qke m|eh d ?kj d vkl&ikl gkuk pkfg; rkfd Qke dh Bhd idkj l n[k j[k gk ik;A
- 2 de [kp e dPp eky dh vkifr gr Qke lMd l ik l gkuk pkfg;A
- 3 Qke d vkl ik l ikuh dk lkr gkuk pkfg,A
- 4 {k= e dPp eky lLr nj ij miyC/k gkuk pkfg;A
- 5 {k= e lLr nj ij etnj miyC/k gku pkfg,A
- 6 {k= e fctyh de nj ij miyC?k gkuh pkfg, D;kfd [kEc mRIkknu e fctyh dh ipj ek=k e vko';drk gkrh gA
- 7 Qke dh txg gjh Hkjh gkuh pkfg; rFkk jk l k;fud /k,] dk;y d /k, rFkk vU; in"kd /k, d okrk oj.k l nj gkuk pkfg,A
- 8 Qke d ik l e vof'k"V inkFk Qdu dh txg gkuh pkfg,A

[kEc Qke gr vko';d bdkb;k

[kEc bdkb dh Ijpuk e e[;r% [kkn] cht cuk] Qly mRiknu ,o lk'p Qly rduhd e i;Dr Ijpukvk dk tehu d ,d VdM ij bl rjg l cuk;k tkrk g rkfd [kEc dh vf/kdkf/kd Qly iklr dh tk l dA vr% ; Ijpuk; fo'k"K dh n[kj[k e r;kj dh tkuh pkfg,A

'or CkVu [kEc $\frac{1}{4}$,xfjd l ckbLi kj l ,o ckbVkf d l $\frac{1}{2}$ [kk l rkj ij Hk l ,o i'k eye= [kkn l r;kj [kkn $\frac{1}{4}$ dEikLV $\frac{1}{2}$ ij mxk;h tkrh gA tcf d f<xjh] nf/k;k ,o ivky [kEc dk l h/k Hk l @ivky ij mxk;k tkrk gA cVu [kEc mRIkknu e pkj pj.k gkr g $\frac{1}{4}1\frac{1}{2}$ [kkn cukuk $\frac{1}{4}2\frac{1}{2}$ cht cukuk $\frac{1}{4}3\frac{1}{2}$ Qly ic/ku rFkk $\frac{1}{4}4\frac{1}{2}$ lk'p Qly l l k/kuA bu pj.kk dk i.k dju gr fuEufyf[kr bdkb;k dh vko';drk gkrh gA

¼v¼ [kkn bdkb

[kkn bdkb e fuEufyf[kr lfo/kk, 'kkfey gkrh g

¼1¼ iFke voLFkk& vkmVMkj [kkn lyVQke@cdj

¼2¼ f}rh; voLFkk&ikLpjhdj.k d{k

¼3¼ dflx ikLpjhdj.k d{k

¼c¼ cht bdkb

¼l¼ Qly mRiknu bdkb

¼1¼ ekleh [kEc mRiknu d{k

¼2¼ fu;f=r okrkoj.k [kEc mRiknu d{k

¼3¼ okrkoj.k fu;=d] okrkudyu] ok; lokgd

¼4¼ vU; lgk;d bdkb

¼n¼ lk'p Qly lIk/ku bdkb

¼1¼ i'khrd dejk

¼2¼ fMCck cnh dejk

¼3¼ ifdx dejk

'or CkVu [kEc mRiknu d fy, [kkn nk fof/k;k&yEch ,o NkVh fof/k }kjk cuk;h tkrh gA [kkn cuku dh yEch fof/k e de yxrr yxrh g lFk gh lFk ble ikLpjhdj.k dh ifd;k Hkh ugh gkrh gA bl fof/k e [kkn dEikLVx ;kM e bV vFkok lhev d Q'k ij cukb tkrh g ijr NkVh fof/k }kjk [kkn cuku dh ifd;k e ijh rjg l <dk gvk dEikLVx ;kM] lhev dk Q'k rFkk xih fiV dh vko';drk voLFkk&1 e lMrh gA bl fof/k dh f}rh; voLFkk e rkijk/kh cYd ikLpjhdj.k dej dh vko';drk gkrh g ft le [kkn dk mPp rkieu ¼57&59º lfyI; l ij ikLpjhdj.k fd;k tkrk gA rri'pkr [kkn dh dUMh'kfux 45&48º lfyI;l ij dh tkrh gA vr ikLpjhdj.k dej dh nhokj] njokt ,o Nr dk lgh idkj l rkijk/kh gkuk pkfg,A fu;f=r okrkoj.k d Qly mRiknu d{kk dk Hkh rkijk/kh gkuk pkfg, rkfd ckgjh tyok; dk dej d okrkoj.k ij dkb vlj uk iMA gkykd ekleh mRiknu d{kk dk rkijk/kh gkuk vko';d ugh g ; doy bV d nhokj] Q'k ,o Nr dh cuh gk ldrh g rFkk ble Qly ,d Qly mi;Dr ekle e gh yh tk ldrh gA bl rjg d d{kk e gok d vkokxeu d l/kkj.k rjhdK l dkcUmbvkdIkBM dk gV;k;k tk ldrk gA okrkudfyr mRiknu d{kk e gok d vkokxeu d fy, ;j gMfyx ;fukV dej d ckgj yxk;h tkrh g ft l l dej dk xe ;k BMk fd;k tk ldrk gA lFk gh lFk gok dk lokru Hkh fd;k tk ldrk gA [kEc mRiknu bdkb dh lgk;d bdkb d :lk e cht ,o fMCckcnh bdkb Hkh cuk;h tukh vko';d gA

[kEc Qke Ijpuk e fofHkUu bdkb;k dh : ij][kk

[kEc bdkb dh Ijpuk e fofHkUu I gk;d bdkb;k dk LFkku I Md dh fLFkfr d vk/kkj ij fu/kkfr fd;k tkuk pkfg, rFkk bld fy, dN [kkI ckrk ij /;ku nuk vko';d g tI fd ikuh dh miyC/krk] fctyh dh yxkrkj vkifr] ty fudkI dh O;oLFkk] dPp eky rFkk Jfedk dh miyC/krk] cktkj dh miyC/krk ,o vki ikI d {k=k e gfj;kyh dk gkukA IkFk gh IkFk bdkb vkcknh I nj gkuk pkfg, rkfd [kkn bdkb I fudyu okyh nx/k ,o in" k.k I ykxk dk ij'kkuh u gkA [kEc bdkb $\frac{1}{2}$ e fuEufyf[kr I gk;d bdkb;k gkrh gA $\frac{1}{4}$ [kkn bdkb $\frac{1}{4}$;kM] ikLpjhdj.k dejk] dflx ikLpjhdj.k dejk $\frac{1}{2}$ $\frac{1}{2}$ cht bdkb $\frac{1}{3}$ mRiknu bdkb $\frac{1}{4}$ Ik'p QIy bdkbA dEikfLVx ;kM dk dPp eky d vkokxeu d fy, eu jkM d utnhd gkuk pkfg,A cYd ikLpjhdj.k pEcj dk dEikfLVx;kM d nIjh rjQ I Md I nj gkuk pkfg, rkfd ikLpjhdj.k d{k d njokt QIy mRiknu d{k d ikI [ky ,o I Md I nj gk $\frac{1}{2}$ A IkFk gh IkFk QIy mRiknu d{k dEikfLVx ;kM I nj jgu pkfg, rkfd QIYk e fdIh idkj dh chekj u vk ik;A dflx feVh ikLpjhdj.k d{k dk Hkh dEikfLVx ;kM I nj gkuk pkfg, rFkk bdkb dh Ijpuk e bl ckr dk /;ku Hkh j[kuk pkfg, fd Hkfo"; e ;fn bdkb dk foLrkj djuk gk rk mld fy, Hkh txg gkuh pkfg,A

,Ih txgk e tgg txg dh deh gk ogk bdkb dk neft yk cukuk pkfg, rkfd txg dh cpr gk l dA

$\frac{1}{2}$ [kkn bdkb

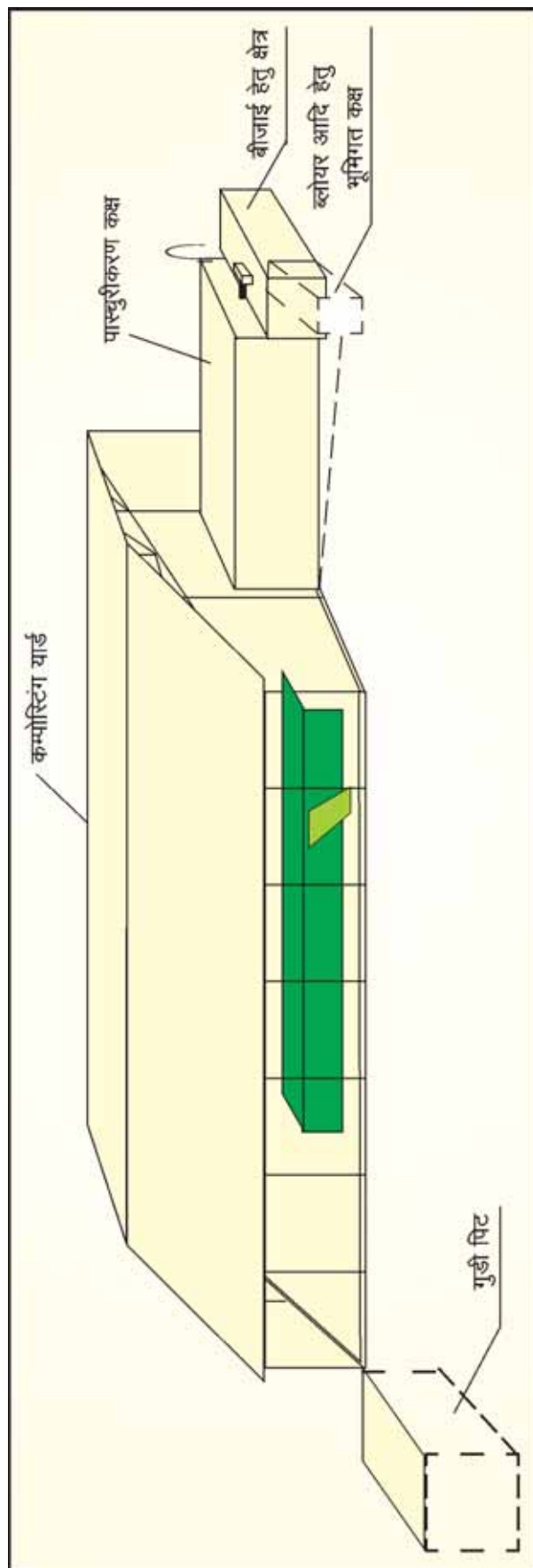
bl bdkb e vku okyh I gk;d bdkb;k dk foLrr fooj.k bl idkj gA

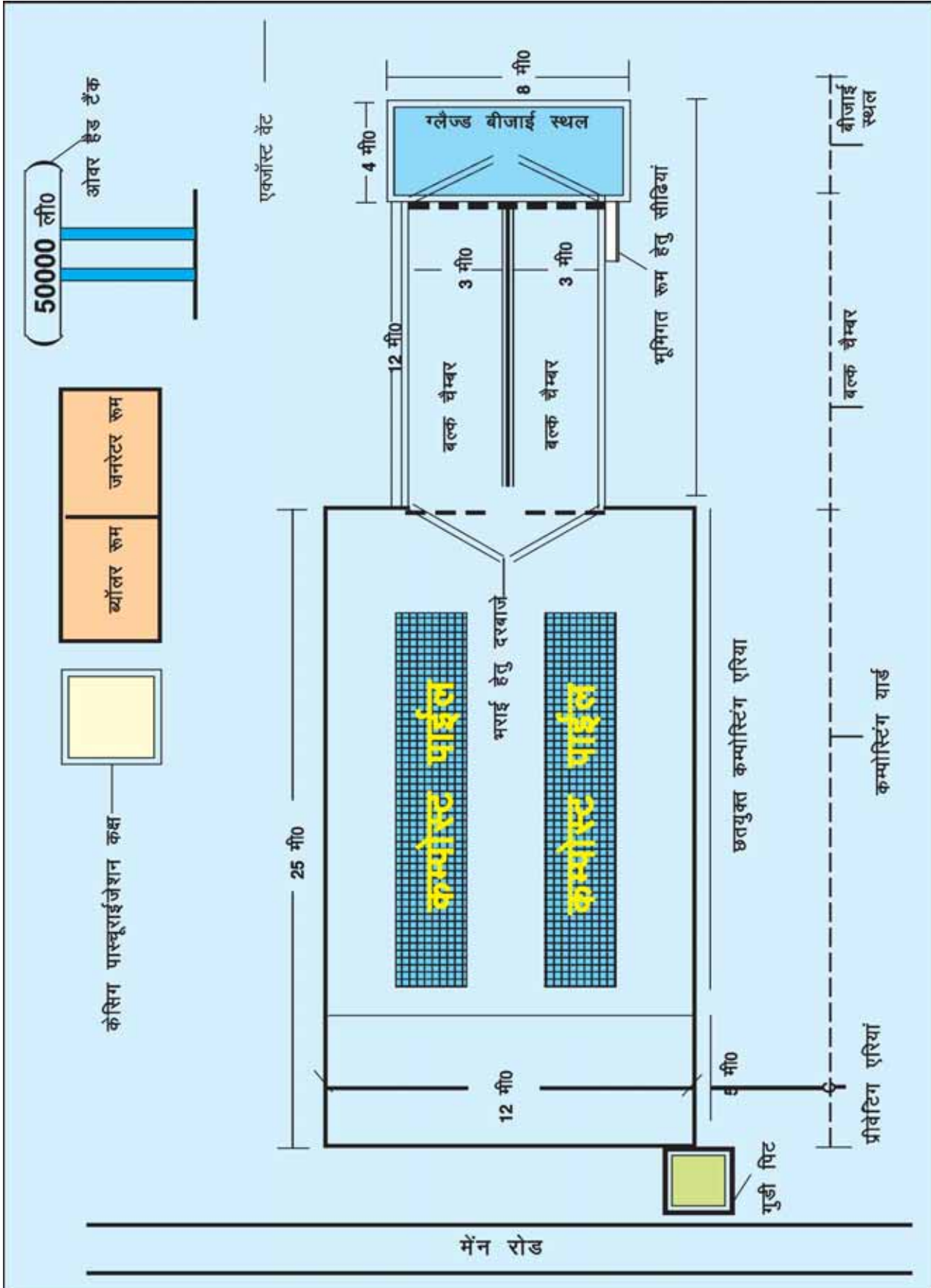
i% dEikfLVx ;kM

dEikfLVx ;kM dh vko';drk [kkn cuku dh iFke voLFkk e gkrh g $\frac{1}{2}$ v ,o c% rFkk bldk Åij I <dk gkuk vko';d g rkfd o"kk ,o /ki I [kkn cuku dh ifd;k ij fdIh idkj dk vlj u iMA Nr dh Åpkb Hkh T;knk gkuh pkfg, rkfd dEikfLVx d nkjku ink gku okyh xLk vki kuh I fudy l dA dEikfLVx ;kM dk Q'k I heUV dh cuh gkuh pkfg, rFkk Q'k e fNn ;Dr ikbi $\frac{1}{4}$ tk Cykvj I tM gkr g% yx gku pkfg, rkfd [kkn e uhp I gok dk vkokxeu gk l dA Q'k dk >dko 1 I-eh-@ehVj xMMh fiV d rjQ gkuk pkfg, rkfd vf/kd ikuh xMMh fiV e tk l d rFkk mI nckjk [kkn e Mkyk tk l dA

dEikfLVx ;kM dh Nr de I de 20 QhV ÅPkh gkuh pkfg, rFkk pkjk vkj I [kyh gkuh pkfg, vFkok T;knk rkieku oky {k=k e 3 ehVj ÅPkh nhokj I f?kjk gkuk pkfg;A xIh fiV ;kM d dku e cukuk pkfg, rFkk ble ,d iEi Hkh yxk gkuk pkfg, rkfd ikuh dk [kkn e iu% fNMdko fd;k tk l dA ,d vueku d vulkj ,d Vu dh dEikLV dh <jh yxHkx 1 ehVj yEch rFkk 1-5 ehVj pkmh gkrh gA IkFk gh IkFk <jh d nkuk vkj e'khuk d IkFk dke dju dh txg Hkh gkuh pkfg,A vr% 10 I 15 ehVj yEckb dh nk dEikLV dh <fj;k dk ,d IkFk cuku ,o dk; dju d fy, dkQh gkrh gA vuekur% 25 Vu {kerk d nk cYd ikLpjhdj.k d{k I [kkn cuku d fy, dEikfLVx ;kM dk 35 ehVj yEck ,o 15 ehVj pkmh gkuk vko';d gA yEch fof/k }kjk [kkn cuku d fy, ;kM dk Q'k bVh I cuk gk l drk g ,o Nr ,p-Mh-







fp=&2 c dEiMfLVx ;kM o Cyd pEcj dh vkrfjd Iipuk

ikyhFkhu 'khV dk ykg dh ikbik ij yxkdj cuk;k tk l drk gA %fp=&4%A dEikfLVx ;kM e ,d 2&3 bp ekVkb dh ikbi dk ikuh dk uydk LFkk;h : i l yxk gkuk pkfg, rFkk rMh fhkxku d fy, ,d 3&4 bp ekVkb dh ikbi Hkh gkuh pkfg,A

dEikfLVx ;kM e 3 Qt 15 ,Eih;j d fctyh d duD'ku gku pkfg, rkfd fofHkUu fdLek dh e'khuk t l dEikLV Vfux e'khu] fQfyx ykbu rFkk Likfux e'khu bR;kfn dk pyk;k tk l dA bld vykok dEikfLVx ;kM e fcTkyh dh V;c ,o lpykbV yxh gkuh pkfg, rkfd dEikfLVx dk dk; jkf= d le; Hkh fd;k tk l dA dEikfLVx ;kM e ,d ikuh dh Vdh Hkh yxh gkuh pkfg,A

ii% iklPjhdj.k 0;oLFkk

cYd iklPjhdj.k d{k dEikLV cuku dh nIjh Qt e iklPjhdj.k ,o dMh'kfux d fy, bLreky gkrk gA bl d{k dk rkijk/kh cuk;k tkrk g rkfd ckgj d okrkoy.k dk dkb Hkh v l j d{k d vnj d okrkoy.k ij u iM ,o d{k d vUnj ,d [kk l okrkoy.k r;kj fd;k tk l dA iklPjhdj.k 0;oLFkk e fuEufyf[kr idkj d d{kk dk fuek.k fd;k tkrk gA

v% cYd iklPjhdj.k d{k

;g ihd ghfVx d{k dk gh ,d : ikuRj.k g ft le dEikLV dh T;knk ek=k dk vPNh rjg l iklPjhdr fd;k tk l drk gA bl ifd;k dk **Mcy tku fILVe** dgk tkrk gA bl ifd;k e cfg[kkn dk lh/k gh d{k e Hkj fn;k tkrk g ,o iklPjhdr rFkk dMh'ku fd;k tkrk gA bl d{k e dEikLV ,d ykg ;k ydMh d tky;Dr Q'k d Åij Hkjh tkrh g rFkk bl Q'k d uhp l ok'i ,o gok T;knk ncko l dEikLV l vkj ikj djkb tkrh gA %fp=&5%

cYd iklPjhdj.k d{k dk ,d }kj dEikfLVx ;kM e rFkk nIjk }kj chtkb {k= e [kyrk gA cYd iklPjhdj.k d{k dh uho de l de 1-5 l 2 QhV xgjh gkuh pkfg, ,o uhp l cky %15&20 l-eh-% rRi'pkr VVh gb bV %10 l-eh-% ,o vr e dØhV Q'k gkuk pkfg,A d{k dk rkijk/kh cuku d fy, 5 l-eh- ekVh Xykloy ;k Fkedky %15 fd-xk-@ehVj³ ?kuRo% dk bLreky fd;k tk l drk g vkj bl 5 l-eh- ekVh l heUV l <dk tk l drk gA bl rjg dh nhokj ,o Q'k iklPjhdj.k d{k rFkk mRiknu d{k nkuk e i;kx dh tk l drh gA nhokj dh ekVkb de l de 9 bp gkuh pkfg,A iklPjhdj.k d{k dh yEckb vkj pMkb mldh {kerk d vulkj gk l drh g ijr Åpkb 3-9 ehVj gkuh pkfg,A iklPjhdj.k d{k dk Q'k <yok gkuk pkfg, rkfd mle ikuh bdVBk u gk l d ,o d{k l gok ckgj ugh tkuh pkfg,A Q'k d Åij ,d fNn;Dr %f>jhknj% Q'k vkj gkrk g rFkk ble 25 l 30 ifr'kr {k=Qy bu fNnk dk gkuk pkfg, rkfd gok dk vkokxeu vk l kuh l gk l dA ;g fNn;Dr Q'k ydMh dk cuk gk l drk g ft l ij iV yxk gkuk pkfg,A bu iklPjhdj.k d{k e dEikLV Hkju ,o fudkyu d fy, uk;yku dh tkyh dk i;kx fd;k tkuk pkfg,A bl d{k dk }kj ykg d ,xy ;k ydMh dk cuk gk l drk g tk fd rkijk/kh vo;o l Hkjk gkuk pkfg, rFkk nkuk vkj l vY;fefu;e 'khV yxh gkuh pkfg,A bl d{k e nk cM fNn gkr gA ft le ,d gok d okrk;u %vnj vku% d fy, gkrk g rFkk nIjk x l k dk ckgj fudkyu d fy, gkrk gA l kQ gok dk vUnj vku d LFkku ij 2&3 ekbdku dk fQYVj yxk gkuk pkfg, rkfd ij thoh dodk d ch t k.k vUnj

u vk l dA l kQ gok d fy, d{k d Nr ij MEij yx gkr g tk fd gok d okrk;u d fy, yx ikbi l tM gkr gA bl d{k e gok dk ncko l d{k e Qdu d fy, vidUnh; i[k ¼Cykvj½ yx gkr g tk fd okrk;u d fy, yx ikbi l tM gkr g vkj tc Hkh l kQ gok dh vko';drk gkrh g rk l kQ gok d MEij [kkydj gok nh tk l drh gA bl i[k dh eki cYd ikLpjhdj.k d{k d eki ij fuHkj djrk gA chl&iPphl Vu dh {kerk oky cYd ikLpjhdj.k d{k e gok dk ncko 100&110 fe-eh-¼ikuh dk ry l ½ cuku d fy, gok d io'k ij ,d vidUnh; i[kk yxk gkrk g tk fd ,d 5&7-5 gkl ikoj d ekVj l l pkfyr gkrk gA gok d blh io'k LFku ij ok'i dh ikbi Hkh yxh gkrh g tk fd ikLpjhdj.k d{k e vko';d rkide dk cuk, j[ku e i;kx gkrh gA Nr ,o nhokjk ij ok'i jk/kh iV yxk gkrk g rkfd budk fuPNkj.k u gk l dA

cYd ikLpjhdj.k d{k nk idkj dk gkrk g igyk ft le ,d }kj gkrk g vkj dEikLV dk vUnj Mkyuk ,o fudkyuk mlh }kj d }kj fd;k tkrk g rFkk nljk ft le nk }kj gkr g ft le ,d }kj l dEikLV Hkhj tkrh g] tk dEikLV ;kM dh rjQ gkrk g ,o nljk] ft l l dEikLV fudkyh tkrh g] ch tkb {k= e [kyrk gA

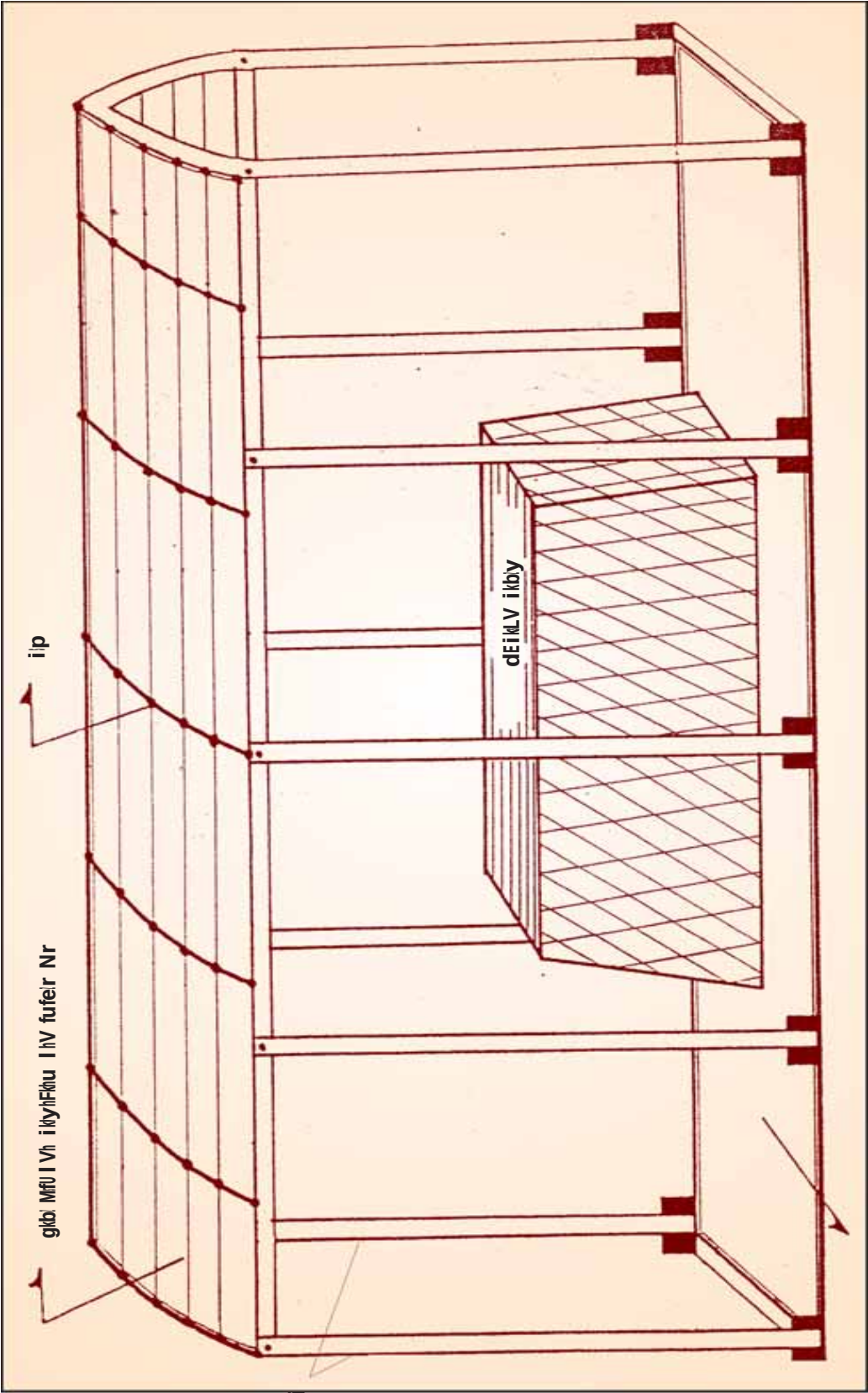
ikLpjhdj.k d{k dk Hkju ,o [kkyh dju d fy, dUo;j cYV dk i;kx fd;k tk l drk g ft l l Je ,o le; dh cpr gkrh gA bl rjg dh e'khu }kj d{k dk Hkju ,o [kkyh dju d fy, nk uk;yku dh tkfy;k dk i;kx fd;k tkrk g ,d fNn;Dr Q'k ij yxh gkrh g rFkk nljh mld Åij f?kl du okyh gkrh gA

xe t yok;| oky {k=k e dEikLV BMk dju d fy, ikLpjhdj.k d{k e vko';d 0;oLFkk

ftu {k=k e rkieku 35&40 fMxh l fYl ; l d vkl ikl gkrk g ogk cYd ikLpjhdj.k d{k e dEikLV BMk dju d fy, vko';d 0;oLFkk t :jh gA bl d fy, ikLpjhdj.k d{k e dfyx 0;oLFkk gkrh g rFkk bl pkjk vkj l rkijk/kh cuk;k tkrk gA ;g dfyx 0;oLFkk ;k rk d{k d ckj yxkb tkrh g vFkok ;g vidUnh; i[k d l kFk d{k d Q'k d uhp yxkb tkrh gA

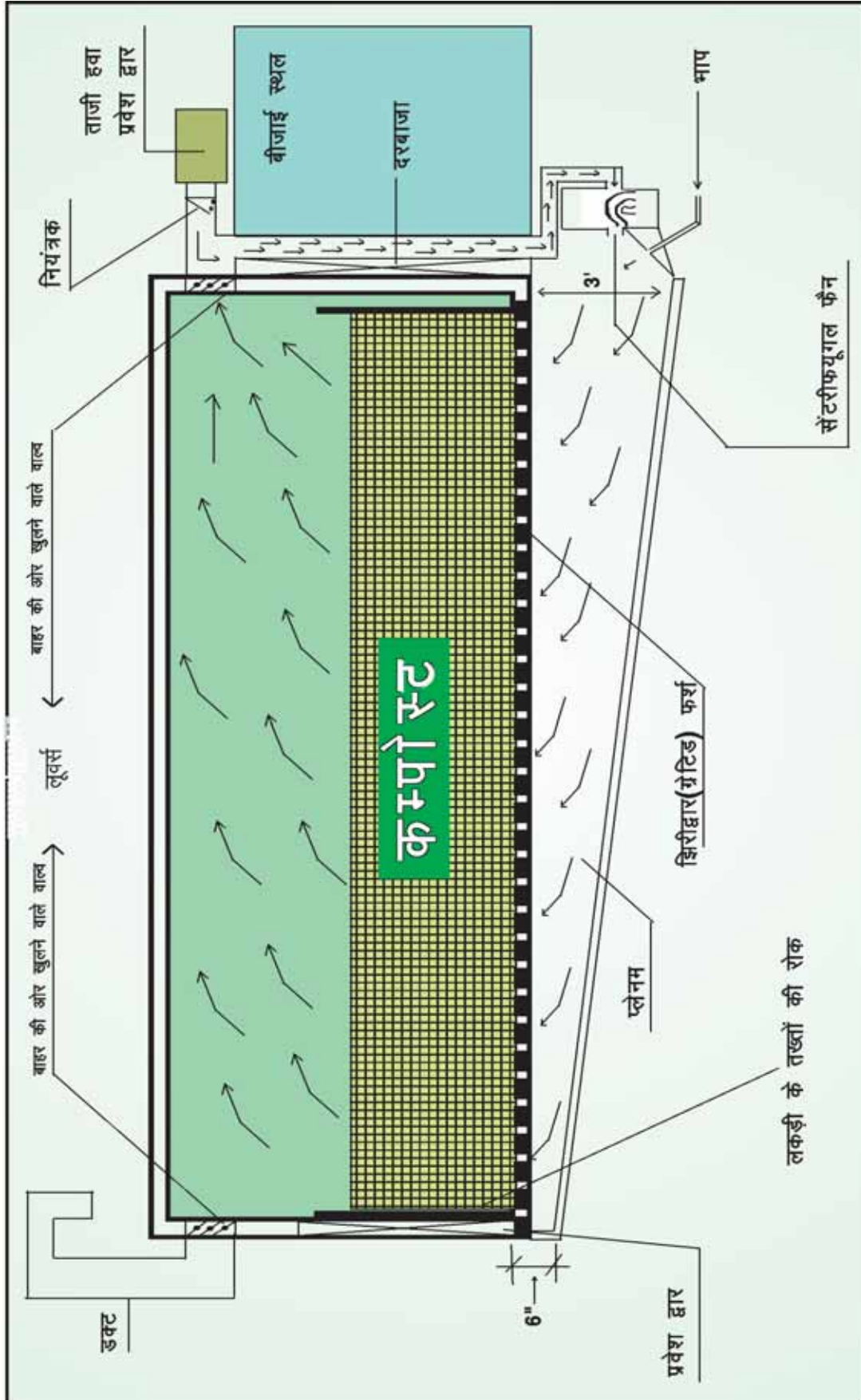
l ½ dflx feVh ikLpjhdj.k d{k

;g ,d rkijk/kh d{k gkrk g ft le ok'i ,o ,d vidUnh; i[k ¼Cykvj½ dh lg;rk l bfPNr rkide dk fu;f=r fd;k tkrk g ,o dflx feVh dk ikLpjhdr fd;k tkrk g ¼fp=&6½A bl d{k dh eki dEikLV ikLpjhdj.k d{k dh {kerk ij fuHkj djrh g ,o ,d dflx feVh ikLpjhdj.k d{k dh {kerk bruh gkuh pkfg, fd ,d ckj cuh dEikLV d fy, dflx feVh dk ikLpjhdr fd;k tk l dA dflx feVh dk fhkxku d ckn bl V e Hkj dj d{k e ,d d Åij ,d dj d j[kk tkrk g ,o rkide dk ok'i dh lg;rk l 65 fMxh l fYl ; l ij 6&8 ?kV d fy, j[kk tkrk gA cYd ikLpjhdj.k d{k dh gh rjg bl d{k dh nhokj] Nr ,o njokt Hkh rkijk/kh gkr gA bl d{k dk dEikLVx ;kM l nj cuk;k tkrk g rkfd ble jkxk.kvk dk l de.k u gk l dA



bVh ; k l heV dk Q'k

fp=&4h , p-Mh- ikylFkhu 'khV l : cuk dEikfLVx ;kM



fp=&5\ cYd ikLpijdj.k d{k dk vkrfjd n';

2½ cht bdkb

[kEc bdkb e cht i; kx'kkyk dh ljpuk fp= l[; k 7 e n'kk; h xb gA ,d lEi.k cht i; kx'kkyk d fy, de l de 18 x 9 x 3-6 ehVj ¼y-pk-Å-½ txg pkfg, A bl i; kx'kkyk dk fofHkUu dk; {k=k e ckVk x; k g t l fd vKvKDyo d{k} fuo'ku d{k} rki fu; f=r d{k ¼rkijk/kh ,o okrkudfyr½ l Qkb d{k} HkMkj] dk; ky; ,o ,d i'khfrr ¼BMk½ d{k ¼cht d HkMkj.k d fy, ½A

3½ Qly mRiknu bdkb

[kEc mRiknu ,d vrd{k; ifd; k g vr% bld fy, mRiknu d{k e fu; f=r okrkoy.k dk gkuk vko'; d g ,o bl fu; f=r okrkoy.k d fy, mRiknu d{k nk rjg l cuk; tkr gA ¼1½ ek leh mRiknu d fy, mRiknu d{k ,o ¼2½ fu; f=r okrkoy.k mRiknu d{k ¼o" k Hkj mRiknu d fy, ½ ¼fp=&3½A

i½ ek leh mRiknu d{k

ek leh mRiknu d{k njvly l k/kj.k dej gkr g ft le Qly mRiknu d fy, fofHkUu ifjLrfFk; k dk fu; f=r fd; k tkrk gA mRiknu d{k e l heV d Q'k] bV dh nhokj] ddjhV dh Nr ; k ,LcLVl dh Nr d l kFk ,d ngj h Nr gkrh g ft le gok d lokru dh 0; oLFkk gkrh gA ; dej lkeU; r% ok; jk/kh gkr g rkfd Qly mRiknu d nkju gok d lokru dk fu; f=r fd; k tk l dA bu d{k dk rkijk/kh cuku dh vko'; drk ugh gkrh g D; kfd bue [kEck dk ek leh mRiknu fd; k tkrk g ft le vko'; d rkide okrkoy.k d rkide d vulkj gh gkrk g ,o dej dk xe ; k BMk dju d fy, Åtk dh vko'; drk ugh gkrh gA ; mRiknu d{k ?kkl ,o ckl d Hkh cuk; tk l dr g rFkk bue ,d vkj }kj gkrk g ,o nljh vkj gok dk ckj fudkyu d fy, f[kMdh cuh gkrh gA gok d lokru d fy, }kj d Åij i[kk yxk gkrk g ¼fp=&8½A Hkkjr d mRrjh if'peh bykd e Qly mRiknu d fy, ckl ,o ljdM d cu jdk dk i; kx fd; k tkrk gA xkok e tk de eY; d d{k cuk, tkr g mue mRiknu d{k dh nhokj] njokt ,o Nr ljdMk d ru dk cuk; k tkrk g ijr ; mRiknu d{k okrkoy.k ij ijh rjg l fuHkj gkr gA igkMh {k=k e ckl d Ye ij vk/kkfjr ,o Qkbcj d diM l cu mRiknu d{k e Hkh vPN ifj.kke ikr g, gA

ii½ okrkudfyr mRiknu d{k

; mRiknu d{k njvly ok; jk/kh d{k gkr g ft le gok dk lokru vko'; drk d vulkj fd; k tk l drk gA ; mRiknu d{k rkijk/kh Hkh gkr g rFkk budh eki dEikLV dh ek=k ij fuHkj djrh gA yEc ,o iry dej bl idkj d mRiknu d{k e vPN ifj.kke nr g D; kfd bue gok dk lokru vPNh rjg l gk ikrk gA ,d vPNk mRiknu d{k og gkrk g ft l dh {kerk cYd ikLpjhdj.k d{k d cjkcj gkrh g ,o ,d ikLpjhdj.k d{k dh dEikLV ,d l kFk mRiknu d{k e Hkh tkrh gA vr% ,d cYd ikLpjhdj.k d{k ,o mRiknu d{k dh {kerk l k/kj.kr% 20&25 Vu gkuh pkfg, A bl {kerk d mRiknu d{k dh yEckb yxHkx 55&60 QhV] pkMkb 17&20 QhV vkj Åpkb 12&14 QhV gkrh gA

$$\text{dej dh dEikLV } \{kerk = \frac{yEckb \frac{1}{4}QhV\frac{1}{2} \times pkMkb \frac{1}{4}QhV\frac{1}{2} \times \text{Åpkb } \frac{1}{4}QhV\frac{1}{2}}{600} \pm 10\% Vu$$

bu ekik d Qly mRiknu d{kk e l k/kkj.kr% 'kYQ $\frac{1}{4}$ cgLrjh; <kp $\frac{1}{2}$ e dEikLV Hkjh tkrh gA T;knk ;k de dEikLV Hkju d fy, dEikLV dh 'kYQ dh xgjk b e vUrj fd;k tk l drk gA bu mRiknu d{kk e dEikLV ikyhFkhu d Fkyk e Hkh j[kh tk l drh g ,o yxHkx {kerk Hkh cjkj gh jgrh g %fp=&9%A

Qly mRiknu d{k dh uho l [kh ,o vPNh tehu ij j[kh tkuh pkfg,A d{k dk Q'k cYd iLpjh d j.k d{k dh rjg gh gkrk g rFkk nhokj dh ekVb yxHkx 9 bp gkrh g rFkk Nr 4 bp ekVh vkj-lh-lh- dh cuh gkrh gA Qly mRiknu d{k e ,d rkijk/kh njokt k ,o nk gok ckgj fudkyu okyh f[kMfd;k tehu l FkkMk Åij cuh gkrh gA njokt d Åij ,d f[kMdh gok lokru l ;= d fy, cuh gkrh gA d{k dh nhokj Nr ,o njokt rkijk/kh gkr g ,o d{k ijh rjg l ok;jk/kh cuk;k tkrk g rkfd rkide fu;f=r fd;k tk l dA d{k dk xe o BMk dju ,o ok; d lokru d fy, njokt d Åij yx gok lokru l ;= $\frac{1}{4}$, ;j g.Mfyx ;fuV $\frac{1}{2}$ dk i;kx fd;k tkrk gA

iii% Qly mRiknu d{k d ?kVdk dk ekin.M

Q'k

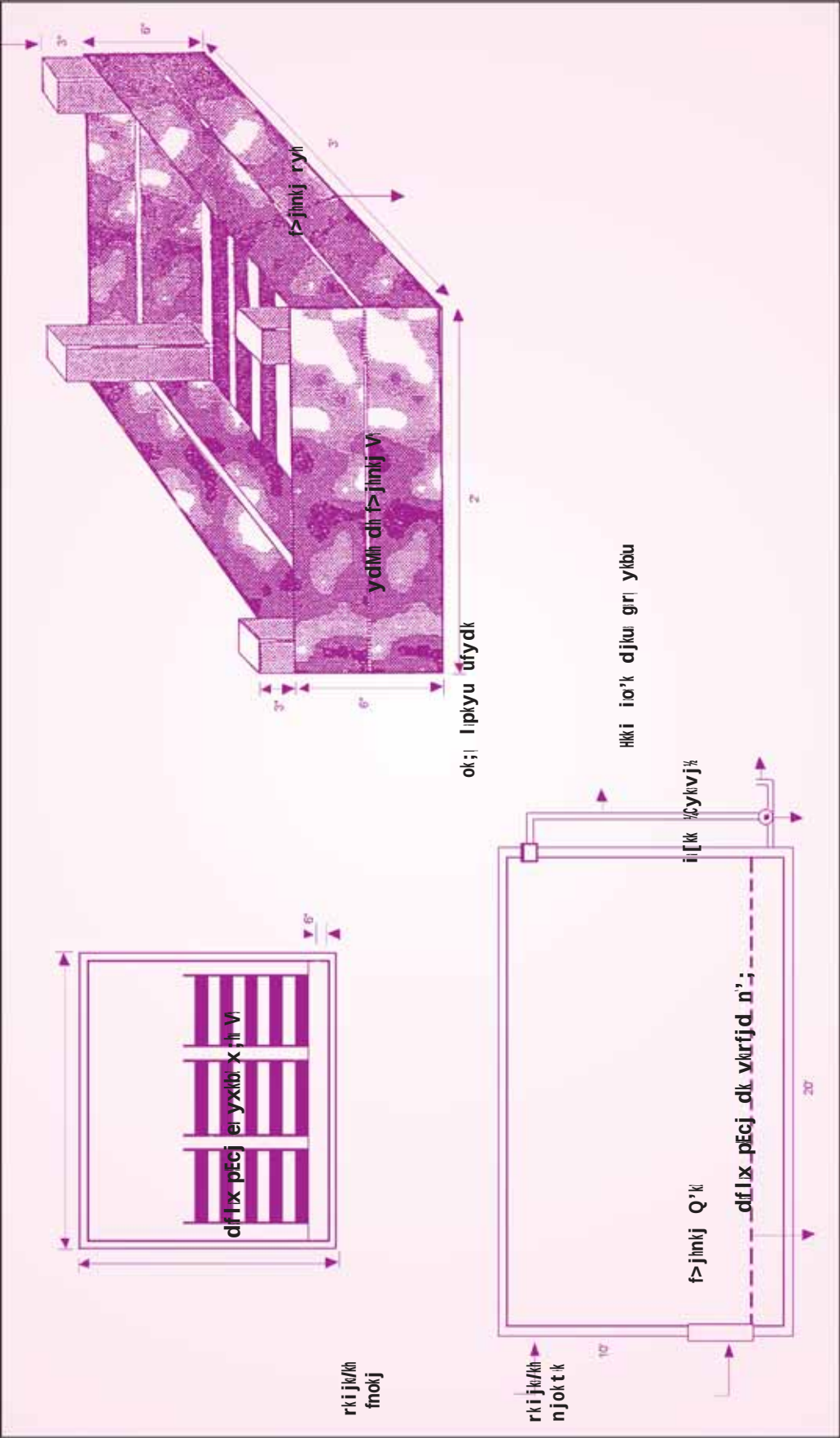
mRiknu d{k dk Q'k bruk etcr gkuk pkfg, fd og ykg d jdk $\frac{1}{4}$ 'kYQ $\frac{1}{2}$ dk l Hkky l dA Q'k e 15&20 l-eh- rd cky gkuh pkfg, fQj mld Åij de l de 5 l-eh- ekVh dØhV dk Q'k gkuk pkfg,A Q'k dk Hkh rkijk/kh vo;o $\frac{1}{5}$ l-eh- ekVh $\frac{1}{2}$ l <dk tkrk gA rkijk/kh vo;o dk Åij vkj uhp l ih-oh-lh- yxkb tkrh g rkfd bUg vknrk l cpk;k tk l dA bl rkijk/kh vo;o dk rkj dh tkyh l <dk tkrk g vkj vr e ddhV dk Q'k cuk;k tkrk gA Q'k dh <yku njokt dh vkj j[kk tkrk g ,o Q'k e ,d ukyh cuk;h tkrh g rkfd ikuh dk ckgj fudkyk tk l dA

nhokj

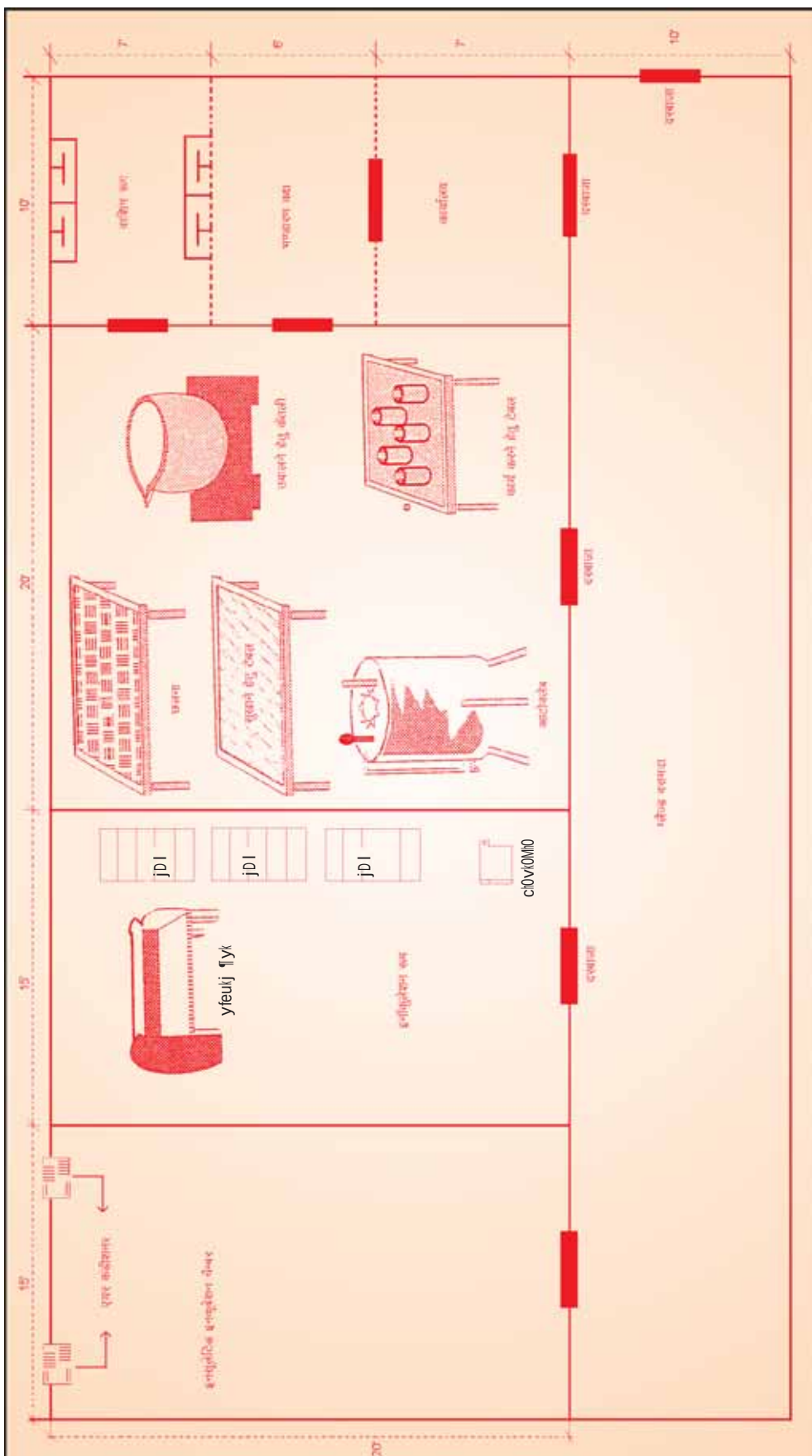
d{k dh nhokj 22-5 l-eh- bV dh cuh gkrh g tk fd lhev l lykLVj dh tkrh gA bl nhokj ij 5 l-eh- ekVh rkijk/kh Fkedky vFkok ikyh;jhFkku dk xe dkyrkj dh enn l yxk;k tkrk gA bld Åij rkj dh tkyh dk dhyk ;k Ld dh enn l yxk;k tkrk gA lcl Åij lhev dk lykLVj yxk;k tkrk g ftld Åij vknrk jk/kh iV yxk;k tkrk gA bl nhokj dh x dk eku yxHkx 0-5 l 0-6 fd-dykjh@eh-² ?kVk gkrh g vkj ; d{k e lgh okrkoy.k cuku e cgr gh mi;kxh gkrk gA

Nr

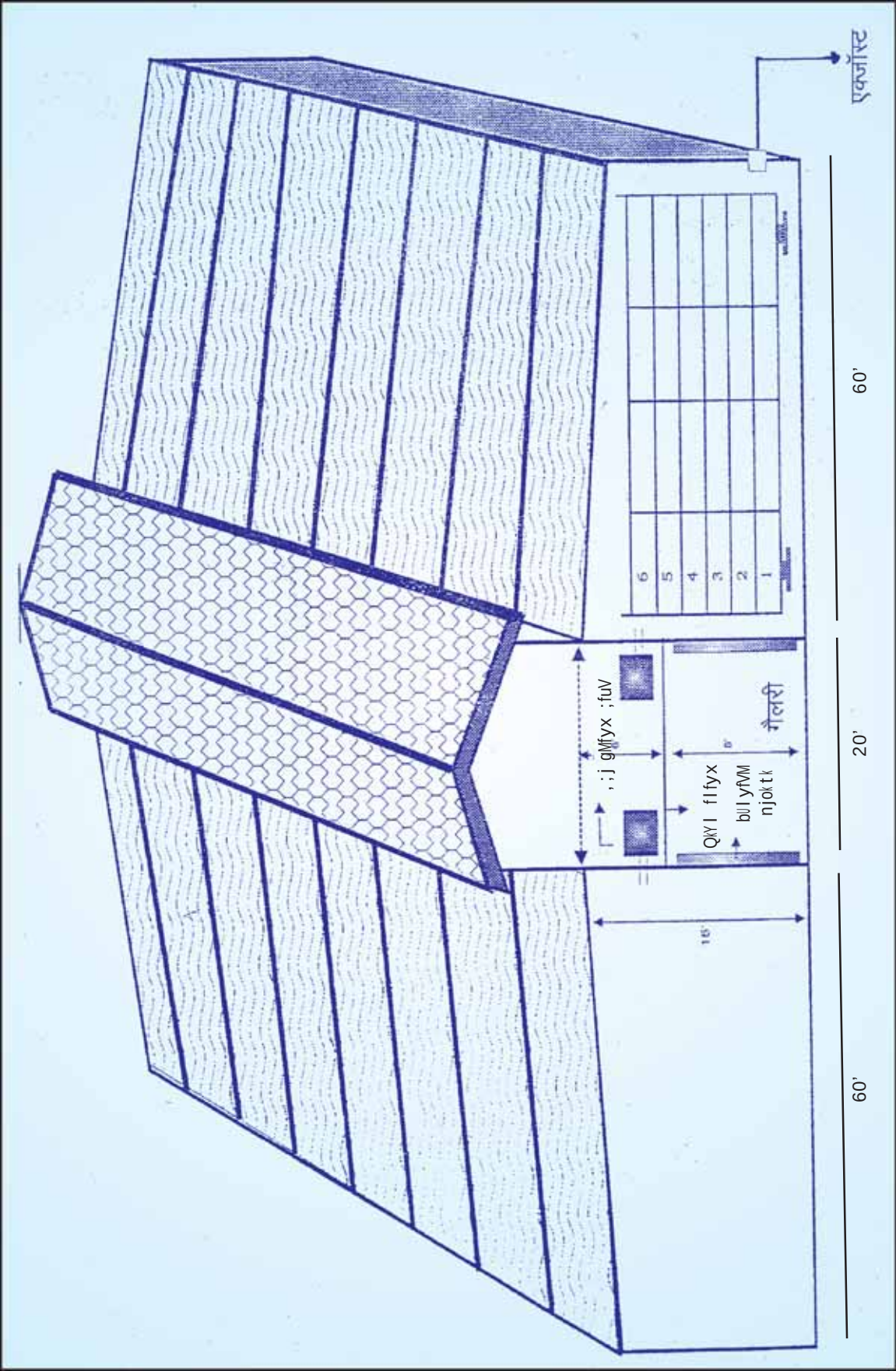
d{k dh Nr yxHkx 12&15 l-eh- ekVh gkrh g tk fd vkj-lh-lh- dh cuh gkrh gA bld vUnj dh rjQ lhev dk lykLVj gkrk g ftld Åij rkijk/kh vo;o yx gkr gA Nr d ckgj dh rjQ 10 l-eh- ekVh feVh gkrh g rFkk 5 l-eh- dhpM gkrh g vkj vr e VkbYl yxh gkrh gA ; Nr dk o"kk l cprh gA igkMh {k=k e tgk o"kk T;knk gkrh g ogk vkj-lh-lh- Nr d Åij ,LcLVI dk <yok Nr yxku l Nr dk cpko gkrk gA



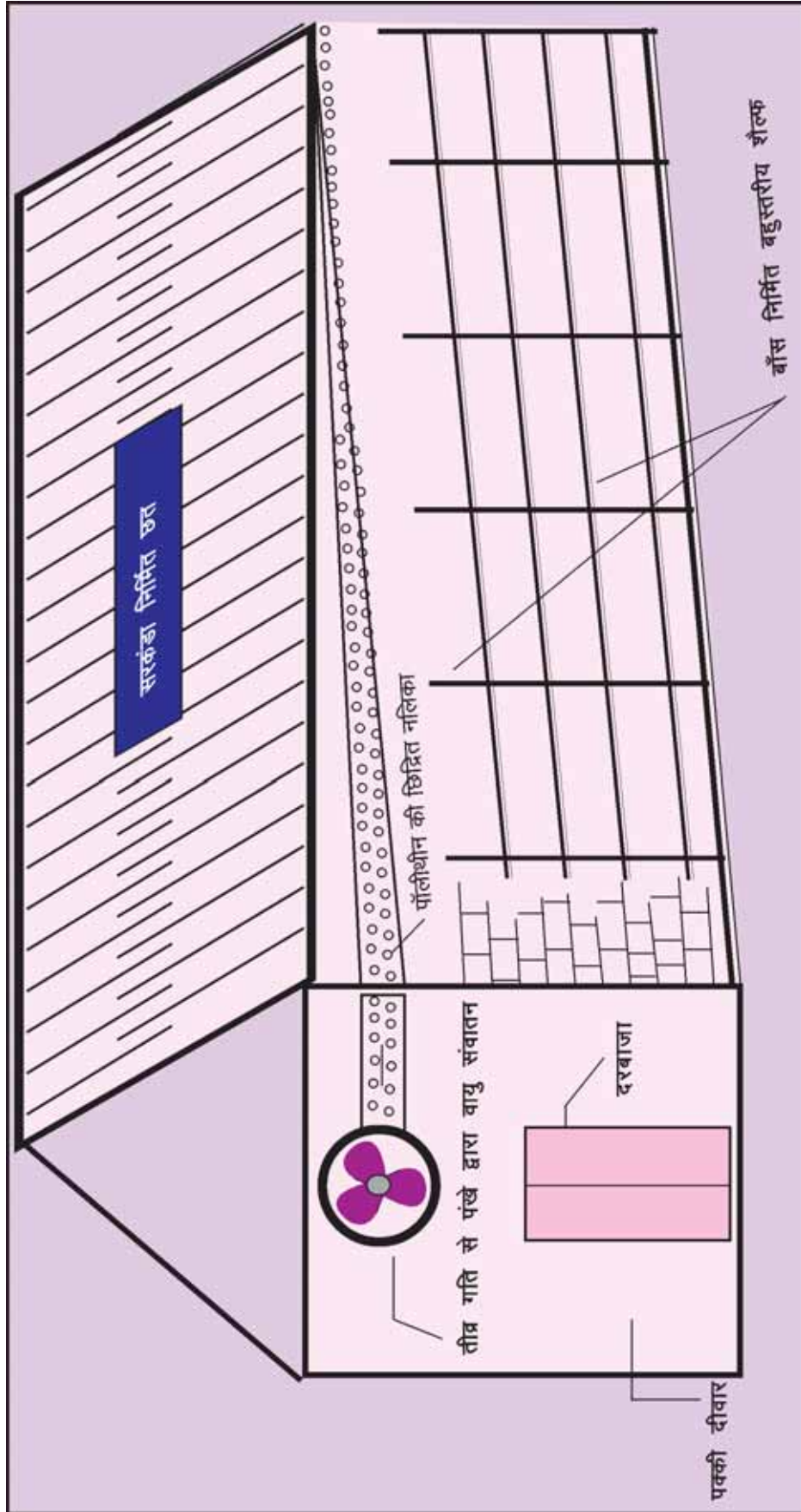
fp=86% dfix feVh ikLpjhdj.k d{k dh vkrfjd Iijpuk



fp=&7% ch t bdkb dh : i j [k



fp=&3% okrkudfyr [kEc mRiknu d{k Ijpuk



fp=&8% ckI] IjdMk o ?kI I cu ekIeh [kEc mRiknu d{k dh Iijpuk

njokt; ,o f[kMfd;k

cYd iklpjhdj.k d{k ,o mRiknu d{k nkuk d njokt ydMh ;k ykg d lfj;k ij cu gkr g ,o rkijk/kh vo;o l Hkjk tkrk gA rri'pkr vnj vkj ckgj nkuk vkj l ,Y;fefu;e dh 'khV yxh gkrh gA njokt e jcM dh xkLdV yxh gkrh g tk fd njokt dk ok;jk/kh cukrh gA

gok ckgj fudkyu d fy, cuh f[kMfd;k lk/kj.kr;k njokt d foihr fn'kk e rFkk tehu d utnhd cuh gkrh gA bue rkj dh tkyh rFkk rkijk/kh <Ddu yxk gkrk gA ; f[kMfd;k dkcumkbvkd lkbM x l dk ckgj fudkyu d fy, cuh gkrh g tk fd gok lokru l ;= d }kjk cuk;h xb /kukRed ncko d vrxr ckgj fudy tkrh gA

idk'kdh; 0;oLFkk

d{k e V;c ykbV rFkk ekckby $\frac{1}{4}$ Vkp ;k bejtUl h ykbV $\frac{1}{2}$ lkr dh 0;oLFkk gkuh pkfg, rkfd dej dk vPNh rjg l fujh{k.k fd;k tk l dA l kFk gh l kFk V;c ykbV dk ok'ijk/kh Hkh gkuk pkfg,A ; V;c ykbV [kMh fn'kk e rFkk fofHkUu Åpkb;k ij yxh gkuh pkfg, rkfd d{k d l Hkh LFkkuk ij idk'k dh vPNh 0;oLFkk gk l dA l kFk gh d{k e fctyh d midj.kk dk pyku d fy, 5 l 15 ,Eih;j dh fo/kr llykb gkuh pkfg,A

ikuh dh 0;oLFkk

iR;d mRiknu d{k e 1&1-5 bp dh ikuh dh llykb rFkk ikuh d fudkl dh 0;oLFkk gkuh pkfg, rkfd d{k e ikuh dk fNMdko o xn ikuh dk fudkl fd;k tk l dA T;knk /kukROk okyh $\frac{1}{4}$,p-Mh $\frac{1}{2}$ ikyhFkhu d cu d{k e ikuh dh ikbi Q'k d uhp l vkuh pkfg,A

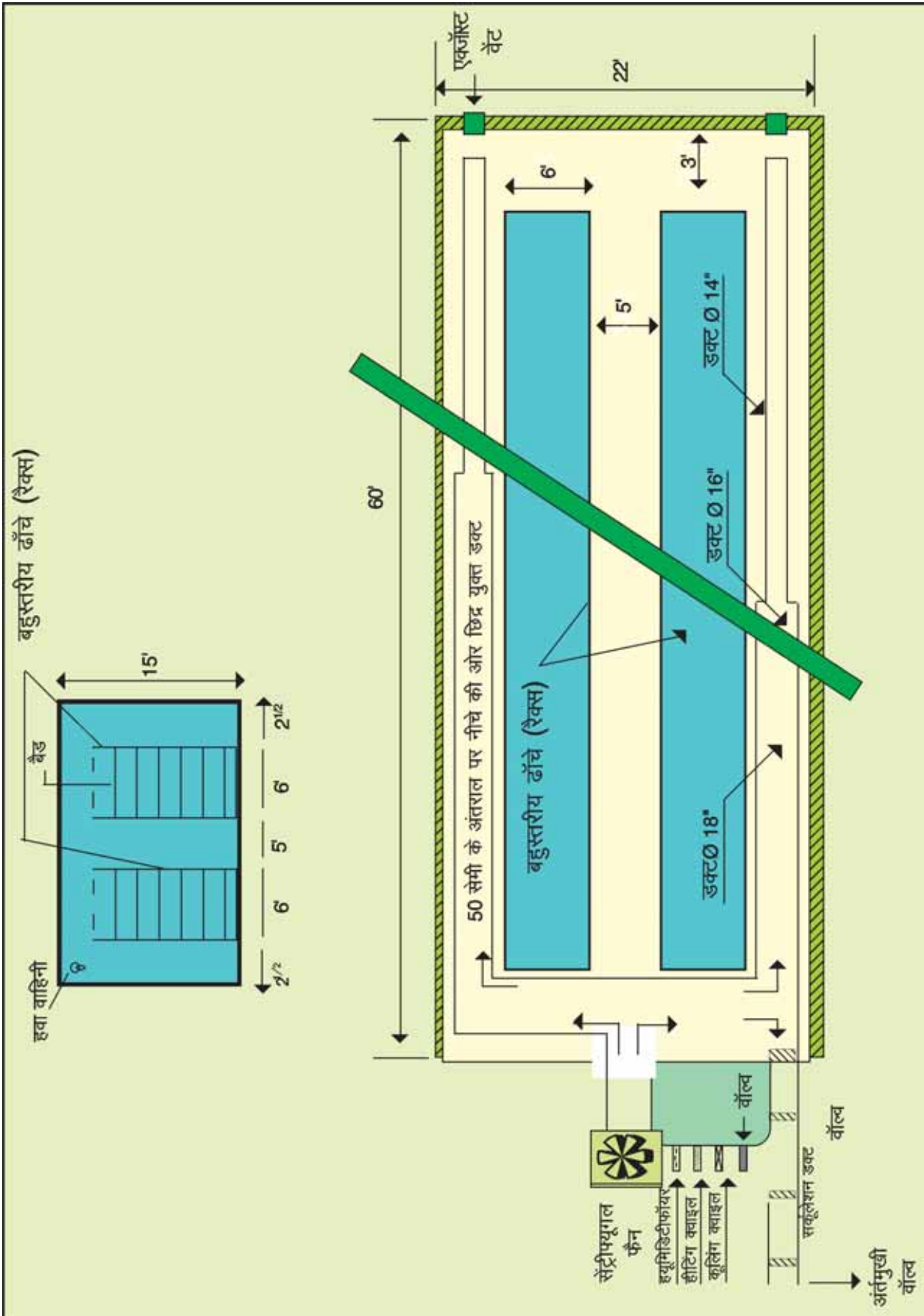
d{k k d chp dh xyh

d{k k dh drkj d chpkchp ,d 6 ehVj pkmh xyh gkuh vko';d g rkfd mldk i;kx fofHkUu dk;k d fy, fd;k tk l dA xyh dh Åpkb yxHkx 3-9 ehVj gkuh pkfg, ,o Åij dh 1-5 ehVj txg ok; lokru l ;= d fy, NkMh tkuh pkfg,A

v $\frac{1}{2}$ ekleh mRiknu d fy, tyok; 0;oLFkk

ekleh mRiknu d fy, Åijfyf[kr l Hkh dkj d k fu;=.k ckgjh tyok; l lEcfu/kr djd fd;k tkrk gA igkMh {k=k e [kEc dh 2&3 Qly ekleh rkj ij d{k dh tyok; e FkkMk cgr cnyko djd yh tk l drh gA iju'ij o'k vPNh Qly yu d fy, tyok; dk lgh fu;=.k vko';d gA igkMh {k=k d ikl d enkuh {k=k e Hkh lfn;k d ekle e ekleh mRiknu vPNh Qly n l drh g tdfd m".kdfVc/kh; tyok; oky {k=k d fy, okrkudyu rFkk tyok; fu;=.k vko';d gA

Ekkleh mRiknu d{k e gok lokru $\frac{1}{4}$ iokg $\frac{1}{2}$ njokt d Åij i[kk yxkdj ,o gok dk io'k vnj dh rjQ djd fd;k tkrk gA bl i[k dk eg ,d ikyhFkhu dh fNn;Dr ikbi l yxk gkrk g tk fd ij mRiknu d{k e Åij gh Åij $\frac{1}{4}$ Nr d lekukrj $\frac{1}{2}$ yxh gkrh g ,o gok dk lokru $\frac{1}{4}$ iokg $\frac{1}{2}$ ij d{k e djr h gA



fp=&9% okrkuudfyr d{k dh vkrfjd Iijpuk

v½ fu;f=r tyok;| oky d{kk e tyok;| 0;oLFkk

,l {k=k e tgg dh tyok;| [kEc mRiknu d fy, Bhd ugh g ogk ij Qly mRiknu d fy, vko';d dkjddk dk fu;f=r djuk vko';d gA fu;f=r tyok; d Qly mRiknu d{kk dk cuku d fy, d{kk dk i.kr;k rkij/kh gkuk ,d vk/kkjHkr vko';drk gA gok d lokru dk ok;| lokru l;= ¼,;j g.Mfyx ;fuV½ }kjk vko';drkul kj fu;f=r fd;k tkrk gA bu ok;| lokru l;=k e xe dju BMk dju rFkk vknrk d fy, midj.k yx gkr g ,o ,d vidUnh; i [kk Hkh yxk gkrk g ft l d }kjk d{k d vUnj gok dk lokgu fd;k tkrk gA i [k }kjk d{k e de l de 50 fe-fe- ikuh dh lrg d cjkj dk ncko ink gkuk pkfg, rFkk l;= e i'khrd d fy, i'khfrr ty ½5&6° lfy l; l½ tk i'khrd dej e cuk;k tkrk g] dk i;kx fd;k tkrk gA bl l;= e ,d vknrk d{k gkrk g ft le ikuh d Qgkj dh enn l 100 ifr'kr vknrk ink dh tkrh g ,o BMh gok dk ml d{k l gkr g, mRiknu d{k e Qdk tkrk g ft l l d{k dk rkide ,o vknrk nkuk gh fu;f=r gkr gA gok dh xfr mRiknu d{k e 15 l-eh- ifr l dM d vkl l l fu;f=r dh tkrh g ft l l dEikLV l ikuh dk fu;f=r ok"ihdj.k gA gok dh /kheh xfr d dkj.k dEikLV l dkcu Mkb&vkD l kbm ,o m"ek nkuk gh fudy tkr g tk gok d l kFk&l kFk d{k l ckj fudy tkr gA d{k e 'k) gok dh ek=k iFke Qyu d nkjku 30 ifr'kr] f}rh; ,o mld ckn d Qyuk d nkjku 20 ifr'kr j[kh tkrh gA 'k) gok ,o dej dh gok dh ek=k dk fu;=.k ok;| lokru l;= e yx MEij dh enn l fd;k tkrk gA ok;| lokru l;= dh gok gVku dh {kerk 4500&5000 ehVj³@?kVk gkuh pkfg,A

mRiknu d{k dk xe dju d fy, ok;| lokru l;= e ok"lk dh ikbi ¼ck;yj dh ikbi½ dh 0;oLFkk gkrh g tk d{k e vko';d rki ,o vknrk nkuk gh fu;f=r djrh gA

gok d lgh lokru d fy, ij d{k e ikbi yxh gkrh g ,o mue fNn cu gkr gA ; ikbi ij d{k e gok dh /kheh xfr dk fu;f=r djr g ,o ikuh d yxkrkj ok"ihdj.k d }kjk rki ,o dkcu Mkb&vkD l kbm dh lknrk dk Hkh fu;=.k e j[kr gA ikuh dk ; ok"ihdj.k dEikLV l [kk] inkFkk dk vo'kk"n.k ,o mldk Åij dh rjQ lokgu Hkh c<krk gA



de eY; dk ek leh [kEc mRiknu d{k

e'k:e mRiknu ,d ykHkd kjh m|kx g ft le T;knkrj NkV Ñ"kd vkr gA viokn d rkj ij dN gh vk|kfxd bdkb g tk fd vR;kfèkd rduhdh vkj fu;f=r okrkoy.k lfoèkk;Dr gA NkV Ñ"kd T;knkrj ek leh mRiknu ij fuHkj gkr g vkj o 'khr _r e de eY; d mRiknu lfoèkk dk mi;kx dj e'k:e mxkr g vkj e'k:e d okf"kd mRiknu e ykHkd kjh lg;kx inku djr gA ek leh NkV Ñ"kd 'khr _r d ikÑfrd de rkieku dk Qk;nk mBkdj ,d ;k nk Qly dk mRiknu dj yr gA o Hkkjr d e'k:e mRiknu e egRoi.k ;kxnu gh ugh nr cfYd tyok; dk ykHk mBkdj mÙke ik"k.k lkr Hkh miyCèk djkr gA e'k:e dh [krh dk de eY; dh ljpuk dk mi;kx dj c<kok fn;k tk ldrk g] ft le Ñf"k vif'k"V inkFkk dk mi;kx dj ,d o"e 8&10 egu vyx&vyx rjg d [kEck dh [krh dh tk ldrh g] tk fd LFkkuh; tyok; d vu:i gkrh gA

de eY; dk ek leh [kEc mRiknu d{k

ek leh [kEc mRiknu d{k lkekU; bV" dh nhokjk o ,LcLVl 'khV d Nr l cu gkr g vkj ,d Hkhrjh Nr ¼QKYl lhfyx½ gkrh gA vPN Qly mRiknu d fy, d{k dk m"ekjkèkh cuk;k tk ldrk gA ek leh mRiknu d{k dk xe ;k BMk j[ku d fy; fd l h idkj dh mtk dh vko';drk ugh gkrhA ek leh mRiknu d fy, mRiknu d{k lkekU; Nlij] ft le fupyh rjQ ikyhFkhu yxh gk] l Hkh cuk;h tk ldrh gA e[; }kj dk dej d ,d vkj j[kk tkrk g rFkk fudkl uyh dk mldh foijr fn'kk e j[kk tkrk gA e'k:e dk ckl dh Mf.M;k vkj ljd.M d ruk l cuh fcNku ij mxk;k tkrk gA bl idkj d mRiknu d{k dk de eY; dh ljpuk l Hkh cuk;k tk ldrk g t l fd LVhy ikbi dk Ýe tk fd ikyhFkhu l <dh gkA

xkeh.k {k=k e cuk; tku oky okLrfod de eY;] l jy rduhdh ;Dr mRiknu d{k dh nhokj] Nr ckl vkj ljd.M d ruk l cu gkr g] ft le dkb ok; lokru dh lfoèkk ugh gkrh gA fNn;Dr ruk ;Dr nhokjk l gj le; ikÑfrd gok dk vknku&inku gkrk jgrk gA e'k:e mRiknu d{k ckl d Ýe vkj Ñf=e j'kk ;Dr diMk l] o vñj vkj ckgj l ivky l <d gkr g tk fd igkMk d okrkoy.k d vu:i ek leh mRiknu d fy; mi;Dr gkr gA okLrfod de eY; dh [kEc mRiknu d{k fp=&1 o 2 e fn[kk;k x;k gA

e'k:e dh Qly e] fd l h Hkh dher ij mRiknu d{k dk fuèkkfjr rkieku rFkk ueh cuk; j[kuk e[; fo"k; gA ;g ugh g fd flQ lLFkkfir 0;olkf;d bdkb gh doy ,;j gMfyx bdkb ;k 'khryd bdkb dk mi;kx dj ldr gA t l k fd ek leh mRikndk d ik l tyok; dk ykHk gkrk g] o Hkh dN lkekU; rduhdk dk mi;kx dj rkieku rFkk ueh dk lfuèkkfjr cuk; j[k ldr gA mRiknu d{k e mPp ueh cuk; j[ku d fy, vkrfjd lrg rFkk nhokjk dk xhyk j[kk tkrk gA dEikLV Fky d pkjk vkj ckjk yiVdj rFkk mle fu;fer : i l ikuh dk fNMdco dju ij miyCèk okrkoy.k fiu gM dk ckgj fudyu rFkk c<u e enn djxkA vfèkd mpkb okyh txgk e] jkr e rkieku 0&5 fMxh lfyI; l rd uhp fxj

tkrk g rFkk mRiknu d{k dk rkieku 14&15 fMxh lFYI ; l ij cuk; j[kuk gkrk gA pfd vkrfjd ok'i nkc] ckgj dh vi{kk T;knk gkrk g vkj ifj.kkeLo: i] rki dk iokg dej d vnj l ckgj dh vkj gku yxrk gA d{k dk ok'i jkèkh d l kFk m"ekjkèkh Hkh gkuk vko'; d gA t l k fd T;knkrj Ñf'k vif'k"V vPN m"ekjkèkh gkr g] [kEc d{k dh nhokj o Nr dk vukt k d vif'k"V inkFk l cuk; k tk l drk gA

lykflVd dh pnnjk dh txg dkb Hkh tyjkèkh inkFk t l dh dy dk vkoj.k ; k ukfj; y d iRrk dk Hkh mi; kx fd; k tk l drk gA Hkkjr d xkeh.k bydkd e db fd l k u u bl idkj dh ljpuk dk mi; kx dj lQyrkiod e'k: e mxk; k gA ; mRiknu d{k njoktk; Dr gku pkfg;] tk fd mfpr m"ekjkèkh d l kFk ok; jkèkh Hkh gku pkfg; A , d ekle e mi; kx fd; k x; k lykVd pnnj ; k rkjikfyu leV dj j[k nuk pkfg, rFkk bl vxyh Qly e mi; kx djuk pkfg, A bl idkj dh ljpuk cuku d fy; T;knk egur dh vko'; drk ugh gkrh vkj u gh T;knk egz dPp inkFkk dhA ; 3&4 fnuk e cuk; tk l dr gA

e?kky; e e'k: e d{k dk miyCèk LFkkuh; inkFkk t l ck l Nlij vkj feVVh d vkoj.k dk mi; kx dj cuk; k tkrk gA nhokj dk ge'kk ck l d VdMk tk fd feVVh o xkcj d feJ.k l <d gk] l cuk; k tkrk gA vPN fdLe dk m"ekjkèkh miØe cuku d fy, dej d pkjk vkj , d nljh nhokj cukr g rFkk nkuk nhokj d chp 15 l-eh- dk Qklyk j[kr gA ckgjh nhokj dh ckgjh lrg ij gh feVVh dk yi gkuk pkfg, A nk nhokj d chp mifLFkr ok; lrg m"ekjkèkh dh rjg dk; djrh g] tcfd ok; m"ek dk ncy pkyd gA ;fn nkuk nhokj d chp dh txg e l[kk Nlij Hkj fn; k tk; rk ; g , d cgrj m"ekjkèkd dk dk; dj l drk gA d{k dh fupyh lrg dk lhev l gh cukuk pkfg;] ijUr ;fn ; g lHko u gk rk] vPNh rjg nckb xb o feVVh dk yi ; Dr lrg Hkh dkQh gkxhA Nr dk , LcLVI pnnjk dk mi; kx dj ekV NTtk d vkoj.k l cukuk pkfg; A vuko'; d inkFkk d feykoV ; k in" k.k l cpku d fy; Nlij dh Nr e , d ngjh ¼QkY l ½ l hfyx gkuh vko'; d gA e[; }kj d ihN] dej e Åijh o fupyh lrgk o nk; h o ck; h lrgk e okrk; u dh lfoèkk gkuh pkfg; rkfd dej e fu; fer : i l ok; dk vkuk&tkuk gk l dA

Hk.Mkj.k d{k tk fd fuf"Ø; ok'i d BMk gku d fl)kr ij] lh-ih-vkj-vkb] f'keyk o tkyèkj e vkyvk dk l xg dju d fy, i; kx fd; k tkrk g] d leku gh fMtkbu dh tkrh g o cuk; k tkrk gA Hk.Mkj.k d{k d vnj dk rkieku 6-13 fMxh lFYI ; l rd de j[kk tk l drk g tk fd eksp&tu d egu d rkieku l de gkrk g rFkk lEcflÙèkr ueh 76-5&94 ifr'kr gkrh gA ; ljpuk, nkgjh nhokj dh cuh gkrh g vkj m"ekjkèkh cuku d fy, chp dh [kkyh txg e èkku dh Hk l h Hkjh tkrh gA ckgjh nhokj e lQnh dh tkrh g] rkfd o rki dk fo{kfir dj l dA nhokj d uhp ydfM; k d cu Ýe yx gkr g tk fd vfèdre ykHk d fy; gok dh fn'kk e yxk; tkr gA ydfM; k d Ýe dk yxkrkj ueh; Dr cuk; j[ku d fy;] cgr ikuh d ikbi l ikuh] tk fd NkV fNn; Dr gkr g Ýek d Åij Mkyk tkrk gA gok bu Ýek l vnj io'k djrh g vkj d{k okf'ir BMd rduhd l BMk gk tkrh g ft l l dh dej dk rkieku ckgjh rkieku l de gk tkrk gA bl idkj l okf'ir BM dej f<xjh o feYdh e'k: e dk mxku d fy; xe bykd t l itkc o jktLFkku e mi; kx fd; k tk l dr gA



चित्र-1. बांस तथा मिट्टी का उत्पादन कक्ष



चित्र-2. बांस व पुआल का ऊष्मारोधी पॉलीथीन खुम्ब उत्पादन कक्ष

de eY; d e'k:e mRiknu d{k e i;Dr dPpk eky

e'k:e mRiknu d{k dk cuku d fy; mi;kx e yk;h tku oky dPpk eky vyx&vyx txgk d vulkj vyx&vyx gkrk gA Ñ"kd viuh bPNk l dPp inkFkk dk p;u dj ldrk g ijUr ; cgrk;r e miyCèk gku pkfg; vkj de eY; d gku pkfg;A rHkh ;g Ñ"kd d fy; ykHkdjh gkxkA ngjknu] uuhrky] ejB] dkuij] y[kuÅ] okjk.k l h] bykgckn] xkthij vkj cyn'kgj vkfn ftyk e mRiknu d{k dk ljd.Mk l cuk;k tkrk gA bld vfrfjDr ck l ivky o txyh ?kk l k dk Hkh mi;kx fd;k tkrk g rFkk i'kvk d xkcj] feVvh vkj Hk l h d feJ.k dk mi;kx yi dju ¼lykLVj½ e fd;k tkrk gA jd ;k [kku ljd.Mk ;k ck l l cuk; tkr g vkj mi;Dr ekle e Ñ"kd ,d ;k nk Qly mxk ldr gA Ñ"kd yEch fofèk l dEikLV cukr g vkj 10&12 fdykxke e'k:e yxHkx ifr 100 fdykxke dEikLV d fglkc l 8&10 l lrg e ikr dj ldr gA mRiknu d{k dk vkdkj l kekU;r 40x20x12 ;k 35x18x10 QV gkrk g o ifr d{k 8&12 Vu dEikLV dk mi;kx ,d ckj e gkrk gA

;gk ij dN egRoi.k fcUn] ftudh vko';drk e'k:e Qke cuku e gkrh g] o bl idkj g

- 1- Qke [kyh txg ij ;k ,l bykd e gk tgg in"k.k u gkA
- 2- in"k.k jfgr ikuh cgrk;r e miyCèk gkuk pkfg;A
- 3- dPp inkFk t l xg dk Hk l k vkj èkku dk Hk l k ¼ivky½ vkl&ikl e vklkuh l miyCèk gkuk pkfg;A
- 4- Qke dh txg l kQ LoPN gkuh pkfg;A
- 5- ,d Qke dk vU; Qke d ik l e ugh gkuk pkfg;A
- 6- Qke foLrkj o cktkjhdj.k dh lfoèkk miyCèk gkuh pkfg;A
- 7- e[; ekx d fudV gkuk] ikuh dh fudkl h] fctyh dh lfoèkk o vU; eyHkr lfo/kk,A
- 8- e'k:e mRiknu d{k] dEikLV r;kj dju dh txg l vfèdre njh ij gkuk pkfg, rkfd dEikLV l xèk] nxUèk] vkdf"kr eD[kh] dhM] thok.k o fo"kk.k dk fu;Uf=r fd;k tk l dA
- 9- dEikLV cuku dh txg vkj e'k:e mRiknu d{k bl idkj l cu gku pkfg; fd gok dk iokg dEikLV r;kj dju dh txg l mRiknu d{k dh rjQ u gkA
- 10- mRiknu d{k dk cgrj l kQ&lFkj k cuk; j[ku d fy; Qkeyhu l l kQ djuk pkfg;A

[kEc m]kx dk Hkkjr e cgr gh mTtoy Hkfo"; g D;kfd Hkkjr e Ñf"k vif"kv inkFk cgrk;r e gA bldk flQ vkf"kd fgL l k gh [kEc mRiknu d mi;kx e yk;k tkrk g vkj ckfd dk i'k [kjk d ,o bèku d : i e Hkkjr h; xkeh.k {k=k e mi;kx fd;k tkrk gA

cgrk;r e dPp inkFk dh miyCèkrk] l kFk gh l kFk xkeh.k {k=k e l l r Je dh miyCèkrk] mi;Dr if"kk.k vkj [kEc mRiknu dk Kku NKV Lrj ij bl m]kx dk c<kok nxkA vrr; dguk vufpr ugh gkxk fd vku oky o"kk e [kEc mRiknu vkleku dh Åpkb;k dk N yxkA



'or cVu [kEc & Qly ic/ku o mUur fØ;k,

[kEc d cht dk [kkn e feyku dh ifØ;k dk chtkb ;k Likfux dgr gA [kEc mRiknu e i;kx e yk;k tku okyk cht 'k) gkuk pkfg,A t l k fd fofnr g fd [kEc d 'k) cht e yxHkx 'or j'keh dod tky gkrk gA ble ihy] gj] Hkj] xykch] uhy vkfn jx d dod ugh gku pkfg,A l kFk gh cht e fd l h idkj d thok.k vkj vokfNr c $\frac{1}{4}xU/\frac{1}{4}Hkh$ ugh gkuh pkfg,A

[kEc dh [kkn e chtkb db idkj l dh tk l drh gA chtkb d dN ipfyr rjhd bl idkj g

1- lrg h chtkb $\frac{1}{4}l j Q l$ Likfux $\frac{1}{2}$

bl fof/k e [kkn dk iVh ;k ikyhFkhu d fyQkQk e Hkj yr gA ijk Hkju d mijkuR cht dk [kkn dh lrg ij Mky nu d i'pkr yxHkx 3&5 l-eh- dh xgjb rd gkFk l vPNh rjg feyk fn;k tkrk gA

2- ijrnkj chtkb $\frac{1}{4}y ; j$ Likfux $\frac{1}{2}$

bl fof/k e [kkn dk ikyhFkhu cx ;k iVh $\frac{1}{4}V\frac{1}{2}$ e Hkjr le; nk ;k rhu ijr e cht dk feyk;k tkrk gA cht dh igyh ijr ikyhFkhu cx ;k V e [kkn dk 3&4 l-eh- rd Hkju d i'pkr yxkb tkrh gA nljh ijr [kkn dk vk/k cx rd Hkju d ckn yxkb tkrh gA rhljh o vfUre ijr lcl mijh lrg ij Mkyh tkrh g ft l lrg h chtkb dh rjg gh [kkn e 3&5 l-eh- dh xgjb rd feyk;k tkrk gA

3- fpUgr chtkb $\frac{1}{4}Li k V$ Likfux $\frac{1}{2}$

bl fof/k e cht d yxHkx 1 D;fcd bUp vkdkj d VdM dkV ;k rkM dj i;kx e ykr gA lcl igy [kkn dk iVh ;k cx e Hkj fy;k tkrk gA bld i'pkr ble ,d D;fcd bp d Nn ,d&,d QhV d Qkly ij dj mUg cht l Hkj fn;k tkrk g rFkk Nn dk [kkn l cUn dj fn;k tkrk gA

4- lEi.k chtkb $\frac{1}{4}Fk$ Likfux $\frac{1}{2}$

bl fof/k e cht dk ikyhFkhu cx ;k iVh e [kkn Hkjr le; Hkyh idkj l feyk fn;k tkrk gA chtkb dh fof/k dkb Hkh gk] cht dh ek=k 0-5 ifr'kr l 0-75 ifr'kr rd j[kh tkrh gA ,d fDoVy [kkn $\frac{1}{4}yxHkx$ nk V [kkn $\frac{1}{2}$ e 500&750 xke cht $\frac{1}{4}250$ xke ek=k dh nk&rhu ckry $\frac{1}{2}$ i ;klr gkrk gA 0-5 ifr'kr dh nj l de cht feyku ij [kkn e dod tky Qyu e vf/kd le; yxrk gA ;fn 0-75 ifr'kr dh nj l vf/kd cht feyk;k tk, rk [kkn e dod tky cgr tYnh Qyrk g] ijuR cht d fy; fd; x; [kp

d vuikr e ykhk de gkrk gA cht dk [kkn dh Åijh lrg e feykr g, ;g /;ku j[kuk pkfg, fd cht [kkn l Hkyh idkj l <d tk; vU;Fkk bl cht ij vokfNr dod mx ldr gA

,d vU; fof/k ft l l ij Likfux d uke l tkuk tkrk g] Hkh mi; kx e ykb tk ldrh gA bl fof/k e ml [kkn dk cht d : i e i; kx fd; k tkrk g ft le dod tky Hkyh idkj Qy pdk gkA tc [kEc dh [kkn dk gh cht d : i e i; kx e yk; k tkrk g rk ;g vukt oky cht dh vi{kk vf/kd rth l Qyrk g D; kfd ek/; e ogh jgrk gA iJUr ble /; ku e j[ku ; kX; ckr ;g g fd cht d fy; mi; kx e ykb tku okyh [kkn e ifr; kxh dodk dh mifLFkfr ugh gku pkfg, A l kFk gh ;g cgr vf/kd ij kuk Hkh ugh gkuk pkfg, A

chtkb d l e; /; ku nu ; kX; rF;

- 1- [kkn e ikuh dh ek=k 62 l 65 ifr'kr rd gkuh pkfg, A ;fn ikuh bl l vf/kd gk rk [kkn dk cXk ;k ifV; k e Hkjr l e; nckuk ugh pkfg, vU; Fkk vkDlhtu dh deh l Liku ej tk, xkA
- 2- [kkn dk ih-, p- 7-0 l 7-8 rd gkuk pkfg, rFkk vekfu; k dh x/k ugh gkuh pkfg, A vekfu; k dh mifLFkfr [kkn e Qy jg cht dk ekj nrh gA
- 3- chtkb d mijkUr bu ifV; k rFkk cxk dk ft l dej e j[kuk gk ml dej dk igy l gh vPNh idkj l l kQ djd Qkeyhu dk 2 ifr'kr ?kky cukdj Li iEi l vPNh rjg Li djd dejk cUn dj nr gA ;g mipkj chtkb l nk fnu igy fd; k tkrk gA bl h idkj ;fn Qly d fy; ifV; k dk mi; kx fd; k tkuk gk rk bUg Hkh Qkeyhu d 2 ifr'kr ?kky l mipkfjr djr gA chtkb d fy; doy mipkfjr ifV; k dk gh i; kx djuk pkfg, A

chtkb d mijkUr $\frac{1}{4}$; fn cx mi; kx e yk, x, gk $\frac{1}{2}$ cx dk Åij dh vkj cpk [kkyh fgLI k vUnj dh vkj bl idkj ekMk tkrk g fd ;g [kkn dk ijh rjg l <d y vkj l kFk gh ;g bruk vf/kd d l dj ugh c/kk gkuk pkfg, fd cht dk Qyu d fy; vko'; d vkDlhtu gh u feyA ;fn cx dk vUnj dh vkj ekMu dh xtkb'k u gk rk cx d Åijh fgLI dk ikyhFkhu vFkok dkxt l <d nr gA bl h idkj iVh e Hkh [kkn dh Åijh lrg dk dkxt l <d nr gA ft l l [kkn e ueh cuh jgA bld i'pkr bu cxk ;k ifV; k dk fuf'pr rkiØe $\frac{1}{4}23\&25^{\circ}$ lfy l ; l $\frac{1}{2}$ oky dej e j[k fn; k tkrk gA bUg ;fn v[kckjh dkxt l <dk x; k gk rk chtkb d ,d ne ckn 0-5 ifr'kr Qkeyhu dk ?kky cukdj Li iEi dh lg; rk l dkxt ij fNMdko fd; k tkrk gA bld i'pkr bu ifV; k rFkk cxk e $\frac{1}{4}$; fn dkxt fcNk; k x; k gk $\frac{1}{2}$ fnu e 1&2 ckj Li iEi dh lg; rk l ikuh fNMdk tkrk gA ikuh bl idkj fNMdk tkuk pkfg, fd cx vFkok ifV; k e ikuh [kMk u gk rFkk l kFk gh bu ij fcN dkxt u l [kA dej e vko'; drkul kj ueh $\frac{1}{80}\&85\%$ cuk, j[ku d fy; nhokjk njokt k ij ckfj; k Vlx dj bUg ikuh l xhyk j[kk tkrk gA dej dk Q'k Hkh ikuh Mkydj xhyk j[kk tkrk gA ;fn cx o iVh ikyhFkhu 'khV l <d x, gk rk bu ij ikuh dk fNMdko dju dh vko'; drk ugh gkrh iJUr dej e ueh bl h idkj l cuh jguh pkfg, A

chtkb: mijkUr j[k j[kko

[kkn e Liku Qyu d fy; dej dk rkieku 22&23⁰ IfYI; l gh j[kuk pkfg, A bl rkieku ij cht 12&14 fnu e [kkn e ijh rjg l Qy tkrk gA ;fn rkieku bl l de gk rk cht dk Qyu e vf/kd le; yxrk gA bl le; ;g vko'; d gk tkrk g fd ghVj vkfn yxkdj dej dk rkieku 23⁰ IfYI; l rd y tk; k tk, A dej dk xe dju d fy; fctyh pkfyr midj. kk dk i; kx gh djuk pkfg, A ydMh] dk; yk vFkok feVvh d ry d mi; kx l /kvk mRiUu gkrk g ft l l fodr [kEc fudyu dh vk'kdk jgrk gA ;fn rkieku 25⁰ IfYI; l l vf/kd gk rk Hkh [kEc d cht d fy; vPNk ugh gkrk vkj db idkj dh chekfj; k o ifr; kxh dod mxu 'k: gk tkr g tk [kEc d cht dk Qyu l jkdr gA rkieku de dju d fy; rkth gok vFkok dyj ;k ,vj dMh'kuj dk mi; kx fd; k tk l drk gA

ueh o rkieku d vfrfjDr dej e lokru ¼goknkjh½ Hkh vR; Ur vko'; d g ft l l dej e fuf'pr vkDIhtu dh ek=k cuh jgA cht ¼Liku½ Qyu d fy; FkkMh vf/kd dku MkbvkDIkM dh ek=k dh vko'; drk gkrh gA bl le; dku MkbvkDIkbM dh dy okrkoy. k dk 0-1&0-5 ifr'kr gkuk pkfg, A cht ¼Liku½ Qyu d le; [kEc dod dh 'olu fØ; k vf/kd icy gk tkrh g] ft l l dku MkbvkDIkbM vf/kd ek=k e curh g o rkieku Hkh FkkMk l k c< tkrk gA lkekU; goknkjh l rkieku o dku MkbvkDIkbM nkuk dk fu; fU=r fd; k tk l drk gA

[kkn e: ukbVktu rRok l ; Dr lEijd Mkyuk

[kkn e chtkb d le; ;k tc [kkn e Liku ijh rjg Qy pdk gk o cx e dflx feVvh fcNku d le;] ble ukbVktu rRok l ; Dr lEijd t l fcuky ;k l k; kchu d cht k dk pj k [kkn dh ek=k dk 1&2 ifr'kr rd feyk; k tk l drk gA bld fy; bu cht k dk njnj k l k dV yr gA bld i'pkr blug 0-25&0-5 ifr'kr Qkeyhu ?kky l vPNh rjg mipkfjr fd; k tkrk gA mipkfjr dju d ,d fnu ckn] bl chtkb d le; ;k dflx feJ. k fcNku l igy] [kkn e vPNh rjg l feyk fn; k tkrk gA bl l [kEc dh inkokj lkekU; l yxHkx 25 ifr'kr vf/kd gkrh gA ijUr ;gk /; ku nu ;kX; ckr ;g g fd [kkn e lEijd d Mkyu l bldk rkieku 4&5⁰ IfYI; l rd c< tkrk gA vPNh Qly yu d fy; rkieku dk de djd lkekU; rd ykuk vko'; d gA db ckj bl fof/k e ifr; kxh QQnh Hkh vk tkrh gA

dflx o mld: ckn j[k j[kko**dflx D; k g l**

tc [kkn e cht feyku d i'pkr m l fu; fU=r dej e 22&23⁰ IfYI; l ij j[k nr g rk vudy ifjflFkfr; k e dod tky 12&15 fnuk e ijh [kkn e Qy tkrk gA ijUr [kkn e dod tky fdruh vPNh rjg gh D; k u Qyk gk] ble [kEc ugh fudyxh tc rd fd bl ij dflx feJ. k dk u fcNk; k tk, A dflx feJ. k ,d idkj dh feVvh gkrh g ft l [kkn ij fcNku l [kEc fudyu yxrh g D; kfd ;g ,d

ikjfeHkd [kEc mRiknu

U;u ik"kd ek;/e gA bl l ,d ifrcy $\frac{1}{2}$ LVl $\frac{1}{2}$ dh fLFkfr mRiUu gkrh g tk [kEc mRiknu d fy; vko';d gA bl feJ.k dk dflx feJ.k o bl [kkn ij fcNku dh ifØ;k dk dflx djuk dgr gA

dflx dh vko';drk

[kEc dh Qly yu d fy, dflx ,d vko';d ifØ;k gA bld fuEufyf[kr dkj.k gA

- 1- dflx [kEc dh of) o fodkl d fy; vko';d rRok dk [kkn l [kEc rd igpku d fy; ek;/e dk dke djrh gA
- 2- dflx dh rg viuh lrg l ikuh d ok"ihdj.k dk bl idkj fu;fU=r djrh g fd dej e okfNr vknrk rFkk rkieku nkuk cu jgA
- 3- dN thok.k t l l Mkekuk l leg [kEc d cuu] of) o fodkl e lgk;d gkr gA dflx feJ.k dh rg bu thok.kvk dh of)] fodkl o ituu d fy; ,d mi;Dr ek;/e gA
- 4- dflx dh rg [kkn dh lrg dk l [ku l jkdrh gA
- 5- dflx feJ.k dh rg ,d U;u ijk l j.k dk okrkoj.k Hkh cuk, j[krh g tk [kEc mRiknu d fy; vko';d gA
- 6- ;g fodflr [kEck dk Hkkfrd vk/kkj nrh gA

dflx d fy; mi;Dr le;

dflx dju d lgh le; dk fu/kkj.k djuk ,d egROI.k ennk gA db ckj rk dflx ch tkb d ,d ne ckn dj nh tkrh g ftld mijkuR cx ;k iVh dk <d fn;k tkrk gA ijuR bl idkj dflx dju l ifr;kxh dodk d vku dk [krjk gj le; cuk jgrk gA bl rjhd l iVh ;k cx dh n[kHkky dju d fy; vf/kd le; dh vko';drk iMrh gA vf/kdrj dflx feJ.k rHkh fcNk;k tkrk g tc [kkn e dod tky ijh rjg Qy pdk gkA t l k igy Hkh crk;k tk pdk g fd vudy ifjLFkfr;k e ch tkb d 12&15 fnu ckn dod tky [kkn e Qy tkrk gA bld i'pkr gh dflx feJ.k [kkn ij fcNkuk Bh d jgrk gA

dflx feJ.k d x.k

,d mÙke dflx feJ.k e fuEufyf[kr x.k gku pkfg,A

- 1- dflx feJ.k dh ikuh l k[ku dh {kerk $\frac{1}{2}$ okVj gkfYMx diflVh $\frac{1}{2}$ 60 ifr'kr l vf/kd gkuh pkfg,A fon'kk e ihV ekl dk i;kx fd;k tkrk g ftldh ikuh l k[ku dh {kerk yxHkx 80 ifr'kr gkrh gA bld blh x.k d dkj.k ;g lcl vf/kd ipfyr dflx feJ.k ekuk tkrk gA
- 2- **vEyh;rk@{kkjh;rk** ,d vPN dflx feJ.k dk ih-,p- {kkjh; $\frac{1}{4}$ 7-0&7-7 $\frac{1}{2}$ gkuk pkfg,A ;fn feJ.k vEyh; gkxk rk mle 'or cVu [kEc dk dod tky ugh Qyxk] l kFk gh ifr;kxh dod Hkh cgr vf/kd ek=k e vk,xA

- 3- dflx dh cukoV bl idkj dh gkuh pkfg, fd [kEc mRiknu d le; mRiUu fo"kyh xI vkIkuh I ckgj fudy Id vkj IkFk gh thounk;uh xI vkDIhtu cgrk;r e miyC/k gk l dA
- 4- **dflx feJ.k dk ik"K.k eku** dflx feJ.k bl idkj dk gkuh pkfg, fd bldk ik"K.k eku [kkn I dkQh de gkA ;fn dflx dk ik"K.k eku vf/kd gkxk rk [kEc mRiknu d LFkku ij dflx e dod tky Qyrk jgxx tk ckn e LVkek d :i e fodflr gkxkA ,d ckj LVkek cuu ij ble [kEc mRiknu rc rd ugh gkxk tc rd bl LVkek dk fudky dj ckgj u fd;k tk,A bld IkFk gh dflx e [kfut rRok dh ek=k Hkh vf/kd ugh gkuh pkfg,A
- 5- dflx feJ.k e <y] iRFkj vkfn fcYdy ugh gku pkfg,A ;g [kEc d ckgj fudyu e :dKoV MkYr gA
- 6- dflx feJ.k e fdIh idkj d chekjh Qyku oky thok.k] dod] dfe] eD[kh o ifr;kxh dod ugh gku pkfg,A

dflx feJ.k cuk

ihVekI I ,d cgr cf<;k dflx feJ.k cukrk g] D;kfd ble ikuh Ik[ku dh {kerk cgr vf/kd gkrh g ijUr bldh vEyh;rk d dkj.k bl i;kx e yku I igy ble puk $\frac{1}{4}$ dfY"K;e dkckuV $\frac{1}{2}$ feykuk vR;Ur vko';d gA Hkkjr e ihVekI miyC/k u gku d dkj.k db vU; idkj d dflx feJ.k le;≤ ij i;kx fd; tkr jg gA dN vf/kd ykdfi; dflx feJ.k fuEufyf[kr g

- 1- nkeV feVh o jr $\frac{1}{4}$ pkj Hkkx % ,d Hkkx $\frac{1}{2}$
- 2- nk lky ijkuh xkcj dh [kkn o nkeV feVh $\frac{1}{4}$ cjkj fgLI k e $\frac{1}{2}$
- 3- nk lky ijkuh cVu e'k:e dh LiV dEikLV] jr o puk $\frac{1}{4}$ pkj Hkkx % ,d Hkkx % ,d Hkkx $\frac{1}{2}$
- 4- nk lky ijkuh cVu e'k:e dh LiV dEikLV] fpduh feVh o nkeV feVh $\frac{1}{4}$ nk Hkkx % ,d Hkkx % ,d Hkkx $\frac{1}{2}$

dflx feJ.k dk dhVk.k jfgr djuk

dflx feJ.k e cgr Ih chekfj;k d dhVk.k] ifr;kxh dod] dfe o dhV gk l dr g tk dflx dh rg fcNkr gh fodflr gku yxr g D;kfd tk okrkoy.k [kEc d fodkl d fy; mi;Dr gkrk g ogh bu vokfNr thok d fodkl d fy; Hkh mi;Dr gkrk gA bld QyLi:i] ; tho [kEc I ik"kd rRok d fy; ifr;kfxrk djr g] ft l l [kEc dk mRiknu de gk l drk gA bu thok I NVdkjk iku d fy; dflx feJ.k dk r;kj dju d i'pkr bl ikLpjkbT ;k jlk;uk I mipkfjr fd;k tkrk gA ikLpjkbT'ku $\frac{1}{4}$ ikLpjhdj.k $\frac{1}{2}$ fof/k e dflx feJ.k dk ikLpjhdj.k dej e 65&70⁰ lfyI;I rkieku ij 6&8 ?k.V rd j[kk tkrk gA B.Mk gku ij bl feJ.k dk i;kx e yk;k tkrk gA

ftu mRikndk d ikI ikLpjkbT'ku dh lfo/kk ugh g o vkukYM LVhe LVjykbTj cuok l dr gA ;g midj.k nk Mek I bl idkj cuk gkrk g fd ,d Me nIj I dkQh NkVk gkrk g vkj bl cM Me

d vUnj ,d vk/kkj ij j[kk tkrk gA cM Me dk ,d 'kduek <Ddu l ft l d e/; e ,d NkVv l k Nn ¼rkieku ekih vUnj Mkyu d fy;½ gkrk g] l cUn fd;k tk l drk gA dflx feJ.k dk vPNh rjg feyk dj vUnj oky Me e Mkyr gA ckgj oky Me d vUnj bruk ikuh Mkyr g fd ikuh bld vUnj j[k x, vk/kkj rd igp tk,A bld i'pkr bl vk/kkj d Åij vUnj oky Me e igpu d fy; ble FkkMh&FkkMh njh ij yxHkx 1 l-eh- pkm fNn }kjk ,d rkiØe ekih bl idkj Mky nr g fd bldk ,d fljk dflx d chip&chip igp tk,A vc cM Me d uhp vx tyk dj Hkki cukb tkrh g o le;≤ ij rkieku ekik tkrk gA rkieku 65&70° lfy l;l rd igpu ij bl 6&8 ?k.V d fy; cuk; j[kk tkrk gA ft l d i'pkr uhp l vx c>k nh tkrh gA B.Mk gku ij dflx feJ.k dk i;kx e yk;k tk l drk gA bu nkuk rjhdk l r;kj dflx dk i;kx e yku d 3&4 fnu igy mipkfjr fd;k tk l drk gA

bu nkuk rjhdk d vfrfjDr] jklk;fud mipkj fof/k }kjk Hkh dflx feJ.k dk fdVv.k jfgr fd;k tk l drk gA jklk;fud mipkj d fy;] dflx ifØ;k 'k: dju l 15 fnu ;k 2 l lrg igy] ;kfu ch tkb d ,dne ckn dflx feJ.k cukdj mipkfjr djuk iMrk gA bl ifØ;k e Qkeyhu dk 5 ifr'kr ?kky cuk;k tkrk gA bl ?kky dk cuku d fy; 2 yhVj Qkeyhu 40 fyVj ikuh e ?kky yh tkrh gA dflx feJ.k dk bl ?kky l ijh rjg xhyk ¼MUp½ fd;k tkrk gA bld i'pkr feJ.k dk ikyhFkhu 'khV l pkjk vkj l vPNh rjg <d nr gA bl 'khV dk dflx dh ifØ;k 'k: dju l 24 ?k.V igy gVv;k tkrk gA bld ckn feJ.k dk ,d lkQ lFkj cyp l myV&iyV nr gA ,d vU; fof/k e ,d yhVj Qkeyhu ifr D;fcd ehVj dflx feVv dh nj l feykb tkrh g vkj 3&4 fnu d fy; feVv <d dj j[k nh tkrh gA

dflx ijr fcNku dh ifØ;k

;g ifØ;k fuEufyf[kr <x l ijh dh tkrh gA

- 1- loiFke gkFkk dk vPNh rjg lkcu l /kk yA
- 2- vc cx ;k ifV;k ij l dkxt gVv n ;fn cx vUnj dh vkj QkYM fd;k x;k gk rk [kky yA
- 3- vc iVh o cx e [kkn dh Åijh rg dk gkFk l nck&nck dj lery dj yA
- 4- cru ft le dflx feJ.k iVh l fudky dj j[kuk g] vPNh rjg lkQ djd 2 ifr'kr Qkeyhu d ?kky e Mky dj fudkyA vc l[ku ij iVh e l dflx feJ.k bl cru e Mky yA
- 5- dflx feJ.k] cx ;k ifV;k dh lery dh xb lrg ij Mkydj 3&4 l-eh- ekVh rg fcNk yA bl l de ekVh rg fcNku ij dod tky dflx d mij vk tkrk g vkj bl l vf/kd ekVh ijr fcNku ij tk [kEc mxr g mud ru cgr yEc gkr g vkj db ckj [kEc dflx d vUnj gh cu tkr gA
- 6- dflx fcNkr g,] dN dflx feJ.k uhp fxj tkrk gA bl i;kx e ugh ykuk pkfg, rFkk mBk dj ckgj Qd nuk pkfg,A
- 7- dflx d rjUr ckn cxk ;k ifV;k dk jDl e j[k dj dflx d Åij ikuh dk fNMdko dJA iFke fNMdko e 0-5 ifr'kr Qkeyhu dk i;kx fd;k tk l drk gA

dflx d nkjku dN vU; fof/k;k vk teku l [kEc dh inkokj tYnh o vf/kd fey l drh g] tk fd fuEufyf[kr gA

1- jQfyx

bl fof/k e dod tky;Dr [kkn ij dflx dh rg fcNku l igy cx dk fd lh mipkfjr Vc e myV nr gA [kkn d <yk dk rkMdj vyx&vyx dj nr gA vc [kkn dk nkckjk cx e Hkj dj dflx dj nh tkrh gA bl fof/k l [kEc dh inkokj tYnh 'k: gkrh gA ijUr bl fof/k e Je vf/kd iMrk g vkj ;fn cx d fd lh fgLI e dkb chekjh vkfn g rk mld Qyu dk [krjk Hkh vf/kd gkrk gA

2- ukbVktu;Dr lEijdk dk i;kx djuk

ble [kkn dk jQy ¼v) dod tky Qyko voLFkk ij [kkn dk feykuk o iu% cxk e Hkjuk½ djr le; mipkfjr lEijd t l lk;kchu ehv ;k dkVu l hM ehv ¼fcuky dk p.k½ 1 fdykxke@fDoVy [kkn dh nj l feyk;k tkrk gA bld ckn [kkn dk cx e Hkj dj dflx dh tkrh gA lEijd dk mipkfjr dju dh fof/k igy gh nh tk pdh gA bl fof/k l 25&30 ifr'kr vf/kd mit fey l drh gA

3- LiKUM dflx ¼dfdx½

bl fof/k e [kkn] ft le [kEc dod tky vPNh rjg Qy pdk gk] dk dN Hkx dflx feJ.k e dflx djr le; feyk;k tkrk gA bl l [kEc mRiknu tYnh 'k: gkrk gA

dflx d i'pkr Qly dh n[kHkky

dflx ifØ;k i.k gku d ckn] dflx e dod tky dk Qyu fn;k tkrk gA bld fy; dej dk rkieku 22&23^o lfy l;l j[kk tkrk gA dflx dh ijr ,d dEcy dh rjg dke djrh g vkj [kkn e mRikfnr m"ek dk ckgj fudyu l jkdrh gA bl dkj.k l cxk o ifV;k e rkieku 25^o lfy l;l l vf/kd gk l drk g] fo'k"kr% tc ukbVktu ;Dr lEijdk i;kx e yk;k tk;A dej dk rkieku de dju d fy; rFkk dej e rkth gok dk lek;ktu dju d fy; gok lokru ¼rkth gok dk io'k djuk½ fd;k tkrk gA rkieku 25^o lfy l;l l vf/kd gku ij vf/kd lokru dh vko';drk iMrh gA dflx dju d yxHkx ,d llrg i'pkr] tc dod tky dflx e Qy pdk gk rk dej dk rkieku de dj 14&18^o lfy l;l ij ykuk vko';d gkrk gA [kEc mRiknu blh rkieku ij 'k: gkrk g bl l vf/kd rkieku gku ij mit de gkrh g vkj ftruk vf/kd rkieku gxk mRiknu e mruh vf/kd deh gxhA 21^o lfy l;l l vf/kd rkieku ij dy vif{kr mRiknu dk 50 ifr'kr gh mRiknu fey ikrk gA rkieku 25^o lfy l;l l vf/kd gku ij mRiknu fcYdy cUn Hkh gk l drk gA

dflx dh rg [kEc d fodkl d fy; vko';d ty miyC/k djrh gA lFk gh ;g [kkn dk l[ku l jkdrh gA [kEc inkokj d le; dej e yxHkx 85&90 ifr'kr ueh dh vko';drk gkrh gA bruh ueh dk cuk, j[ku d fy; Q'k dk xhyk j[k] nhokjk ij ckfj;k Vx dj mu ij Hkh ikuh dk fNMdko djuk vko';d gA dflx rg ij lkQ ikuh dk fNMdko dja fNMdko bl idkj djuk pkfg, fd dflx d

ikjfeHkd [kEc mRiknu

Åij ikuh [kMk u gk vkj u gh dflx dh ijr l [ku ik,A lk/kkj.kr;k fnu e nk fNMdko ¼,d lcg o ,d 'kke½ dkQh gkr gA ijUr ;fn okrkj.k e ueh cgr de gk ;k rkieku cgr vf/kd gk rk nk l vf/kd fNMdko Hkh fd, tk ldr gA fNMdko djr le; Li;j ¼Li iEi½ dk ukty bl idkj j[kuk pkfg, fd ikuh dgkl ¼feLV½ dh rjg iM] ugh rk fodkl 'khy [kEck dk pkV igpu dk [krjk cuk jgrk gA

ok;| l okru

[kkn e dod tky Qyr le; dkcu MkbvkDlkbM dh cgrk;r [kEc d fy; ykHkdkjh gkrh gA blfy; fnu e ,d ;k nk ckj 'k) gok nuk dkQh gkrk gA ijUr [kEc mRiknu d le; 'k) gok dh vko';drk c< tkrh g] bl nkju dej e dkcu MkbvkDlkbM dh ek=k 0-05 l 0-1 ifr'kr rd gkuh pkfg,A bld fy; rkt h gok Qdu oky i[k dej e yxk, tk ldr gA gok lh/kh cM d Åij u iM] bld fy; MDVI ¼gok okfguh½ dk i;kx fd;k tk ldrk gA bl MDV dk ,d fljk i[k d eg ij yxk fn;k tkrk g rFkk nljk fljk dej d nljh vkj yk dj cUn dj fn;k tkrk gA bl MDV e FkkMh&FkkMh njh ij yxHkx 1 l-eh- pkM fNn fd; tkr gA bl MDV dk dej dh Nr dh rjQ bl idkj yVdk;k tkrk g fd ;g ifrfnu d fØ;kdykik e ck/kk u MkyA

tc Qly mRiknu d le; ikuh dk fNMdko djuk gk rk ;g /;ku j[kuk pkfg, fd [kEc rkMu d i'pkr gh ikuh dk fNMdko djA ;fn fNMdko igy djx rk [kEc dflx feVvh l yFk&iFk gk tk,x ft l l budh x.koÜkk e deh vkrh gA

[kEck dh rMkb

[kEc dh Vkih dk vkdkj tc 3&4 l-eh- gk tk, rk ;g rkMu ;kX; gk tkrh gA bl voLFkk e [kEc d xyQM ¼fxYl½ ,d f>Yyh l <d jgr gA ;fn bl voLFkk e [kEc rkMk u tk, rk ;g f>Yyh QV tkrh g vkj [kEc /khj&/khj Nrjh dk vkdj y yrh gA [kyh gb Nrjhuek [kEck dk foi.ku ef'dy gk tkrk g rFkk mfpr eY; Hkh ugh fey ikrkA

ifjiDo [kEc dh rMkb vxB o igyh mxyh d chp idMdj gYdk ?kek dj dh tkrh g] fQj /khj l [kEc dk ckgj dh rjQ [khp yr gA [kEc d ru dk fupyk fljk ft le [kEc dod /kxk d :i e yVdk jgrk g rFkk feVvh d d.k fpid jgr g] rt pkd l dkV dj vyx dj fy;k tkrk gA Åij dk Vkih okyk fgLlk o bl l yxk gvk lkQ ruk [kku d dke vkrk gA [kEc dh rMkb l mRiUu g, fNnk dk dflx feJ.k l Hkj fn;k tkrk g vkj bld i'pkr gh ikuh dk fNMdko fd;k tkrk gA

[kEc dh rMkb ifrfnu gkrh gA NkV fiugMl ¼uo tkr [kEc dfydk,½ vxy dN fnuk e cM gkdj rMkb d ;kX; gk tkr gA ;g rc rd pyr k jgrk g tc rd ,d Qyu voLFkk dk lekiu ¼¶y'k cd½ u vk tk,A bl voLFkk e cM ij u rk cVu vkj u gh fiugMl fn[kkb nr gA ;g voLFkk 3&4 fnu rd jgrh g ft l d i'pkr [kEc iu fudyuk 'k: gk tkr gA ;g pØ 8&10 l lrg rd pyr k jgrk gA

श्वेत बटन मशरूम उत्पादन



कम्पोस्ट तैयार करना



बीजाई करना



श्वेत बटन मशरूम के बीजयुक्त थैले



केसिंग परत चढ़ाना



कवक जाल व केसिंग परत युक्त थैले



नवजात कलिकाओं का बनना



श्वेत बटन मशरूम की परिपक्व पफसल



मशरूम की तुड़ाई करना

ikjfeHkd [kEc mRiknu

inkokj

Hkkjro" k e [kEc dh inkokj e cgr fofHkUurk g D;kfd ;gk ij [kEc ikdfrd okrkoy.k e mxkb tkrh gA tc rd [kEc dk fu;fU=r okrkoy.k e u yxk;k tk,] bldh fuf'pr inkokj ugh y ldrA ;gk ij [kkn Hkh yEch vof/k fof/k d }kjk cukb tkrh g ft le vi{kkdr de inkokj feyrh gA iJur fQj Hkh ;fn [kkn o ch t Bhd cu gk vkj Qly yu d nkjku lQkb vkfn dk ijk /;ku j[kk tk, rk yEch vof/k okyh [kkn l Hkh yxHkx 10 l 15 fdyxke [kEc ifr fDoVy [kkn l iklr gk ldrh gA ;fn [kkn y?k vof/k o bMkj fof/k l cukdj [kEc ikdfrd okrkoy.k e yxkb tk; rk mRiknu yxHkx 18 l 20 fdyxke [kEc ifr fDoVy [kkn l iklr gkr gA



mit of) gr t f o d o j k l k ; f u d m R i j d k d k i ; k x

vx f d l i t k f r d [kEc dk dod&t ky Qyko o QYku d fy; vPNh rjg l r;kj dh xb [kkn dh t:j r iMrh gA ;gh [kkn [kEc dk i;k l r ek=k e l k j [k k l i n k F k i n k u d j r h g r F k k b l h [kkn e j g u o k y l {e t h o H k h [kEc dh c< k U k j h e e n n x k j g k r g A ; l {e t h o ; k r k [kEc d [k k l i n k F k d k f g l l k c u d j [kEc dk Q k ; n k i g p k r g ; k f Q j d N , l j l k ; u i n k d j r g f t l l d h [kEc dh i n k o k j e o f) g k r h g A

df" k Q l y k o l f c t ; k d h i n k o k j c < k u e t f o d [kkn v i u k ; k x n k u n r j g g A ; t f o d [kkn ; k r k o k ; e . M y h ; u k b V k t u d k t e h u e t e k d j u o k y t h o k . k ; D r i n k F k g k r g ; k o i n k F k g t k t e h u e m i y C / k Q k L Q k j l d k i k / k k } k j k i ; k x d j u y k ; d f l F k f r c n y k u e l { e g k r g A b u l H k h r F ; k d k e y H k r v k / k k j e k u r g ; [kEc v u l / k k u f u n ' k k y ;] l k y u 1 / 2 f g - i - 1 / 2 e d b r j g d i ; k x f d ; x ; v k j b u l H k h i ; k x k l t k f u " d " k l k e u v k ;] m u d k o . k u ; g k i j f n ; k x ; k g A

1- t f o d [kkn

v k / k f u d t f o d [kknk d k b f r g k l l u 1888 e g o k l u k b V k t u y d j i k / k k d h x f u F k ; k e t e k d j u o k y h , d c D V h f j ; k ^ j k b T k k f c ; e ^ l ' k : g v k F k k A y x H k x 1993 d h ' k : v k r e t f o d [kknk d k i p y u , d N k V l d V h j m | k x d : i e ' k : g v k A i j U r c k n e b l u , d c M m | k x d k n t k i k l r d j f y ; k j f o ' k " k d j v e f j d k j ; j k i j v k L V f y ; k o H k k j r e A b l d h l Q y r k d c k n ^ , t k V k c D V j ^ v k j v U ; i k / k k d Q y k o e l g k ; d c D V h f j ; k d k Q h i p y u e v k ; A

[kEc m R i k n u d f y ; i ; k x d h t k j g h [kkn d k g j r j g l l E i . k [kkn e k u k t k l d r k g D ; k f d ; g [k f u t i n k F k k t l d k c u] u k b V k t u o i k V f ' k ; e l i f j i j . k g k r h g i j U r b l d c u k r l e ; d N [k f u t i n k F k k 1 / 2 v o ; o k 1 / 2 t l Q k L Q V d k T ; k n k / ; k u e u g h j [k k t k j g k g A [kEc dk c g r g h d e e k = k e Q k L Q k j l d h t : j r g k r h g i j U r b l d h d e h n l j e [; [k f u t i n k F k t l u k b V k t u] d k i ; k x d j u e [kEc dk j k d r h g A b l d v f r f j D r ; g r R o [kEc e p y u o k y h d b f Ø ; k v k e , d f o ' k " k m R i j d d h H k f e d k H k h f u H k k r g A [kEc v u l / k k u f u n ' k k y ; e f d ; x ; ' k k / k l i r k p y r k g f d Q k L Q V d k n f o r v o l F k k e c n y u o k y c D V h f j ; k ; D r t f o d [kkn dk v x j [kEc d f y ; r ; k j d h x b [kkn e 1-0 i f r ' k r d h n j l c h t k b d l e ; f e y k ; k t k ; r k y x H k x 20&22 i f r ' k r T ; k n k [kEc m i t f e y r h g r F k k [kEc d h x . k o U k k e d k b c n y k o u g h g k r k g A l e ; d l k F k ; g H k h i k ; k x ; k g f d Q k L Q k j l d k i ; k x [kEc d k d b c h e k f j ; k l H k h c p k r k g A

v½ tfod [kknk d lkr

vPNh tfod [kkn dk n'k d db lLFkkuk ;k fo'ofok|ky;k l iklr fd;k tk ldrk g ftue ie[k g^h

- 1- jk"Vh; tfod [kkn dUn] xkft ;kckn ¼mÙkj in'k½A
- 2- l{e tho foKku foHkkx] gfj ;k.kk df"k fo'ofok|ky;] fg l kj ¼gfj ;k.kk½A
- 3- l{e tho foKku foHkkx] fgekpy in'k df"k fo'ofok|ky;] ikyeij ¼fg0i0½A
- 4- l{e tho foKku foHkkx] i tkc df"k fo'ofok|ky;] yf/k;kuk ¼i tkc½A
- 5- l{e tho foKku foHkkx] Hkkjrh; df"k vul/kku lLFkku] ub fnYyhA

bud vfrfjDr db fuft lLFkku Hkh db idkj dh tfod [kkn cukr o cpr g ijUr fuft lLFkkuk l cuh [kkn dh x.koÙkk dk vPNh rjg l ij[k yuk pkfg,A

c½ i;kx fof/k

cktkj e miyC/k tfod [kkn yxHkx 200 xke dh ifdx e miyC/k gkrh g rFkk ,d dUry [kEc [kkn d fy; yxHkx 2½ idV tfod [kkn dkQh gkrh gA bl tfod [kkn dk [kEc [kkn ¼dEikLV½ e cht feykr le; gh feykuk pkfg; D;kfd ,lk dju l tfod [kkn dEikLV e ijh rjg l fey tkrh g vkj vfrfjDr etnjkdh t : jr Hkh ugh iMrhA

l½ lko/kkfu;k

tfod [kkn dk [kjhn r o [kkn ¼dEikLV½ e feykr le; fuEufyf[kr lko/kkfu;k cruh pkfg;A

- 1- tfod [kkn 3 egHu l T;kkn ijkuh ugh gkuh pkfg;A
- 2- tfod [kkn dk B.M lFkku ij j[kuk pkfg;A
- 3- tfod [kkn dh fuf'pr ¼vuekfnr½ ek=k feykuh pkfg;A
- 4- tfod [kkn dh [kjhn fo'oluh; dUnk l gh djuh pkfg;A

2- cDVhfj;y bukdYV

;fn l kfgR; dk vk/kkj ekudj ge n[k rk ^cDVhfj;y bukdYV^ vkj tfod [kkn e cgr T;kkn Qd ugh g] nuk gh e cDVhfj;k l fEefyr gkr g] Qd doy mud cuku dh fof/k] mudh miyC/krk o i;kx dju dh fof/k e gA tfod [kkn d tk ckUM ¼Qkjey'ku½ cktkj e vk l kuh l miyC/k g o pkjdY t l inkFkk ij cuk; tkr g rFkk n l jh rjQ] cDVhfj;y bukdYV tk no voLFkk e gkr g] cktkj e vk l kuh l miyC/k ugh gkr gA

t l k fd igy gh o.ku fd; k tk pdk g fd [kɛc mɾiknu e cgr l thok.kvk dk egRo gkrk gA dN [kkn ¼dEikLV½ cuku e rFkk mldh ikf"Vdrk c<ku d fy; egRoi.k g rk dN [kɛc e of) rFkk mldh Qly dh c<kÙkj e lgk; rk o lg; kx nr gA bu thok.kvk dk T; knk ; kx nku dflx feVh e g ft le ; [kɛc dh fiu gMI ¼uotkr [kɛc½ cuku e lgk; d gkr gA vxj dflx feVh e bl rjg l cnyko yk; k tk; fd ,d fo'k" idkj d thok.k T; knk gk rk [kɛc dh inkokj e dkQh c<kÙkj fey l drh gA

bl fn'kk e fd; x; i; kxk l irk pyrk g fd [kɛc dk dod tky ¼ekb l hf; e½ db cDVhfj; k t l cfly l] vYdfy tu] vkj l Mkekuk l dh mifLFkr e T; knk vPNh rjg l Qyrk g vkj T; knk fiu gMI ¼uotkr [kɛc½ cukrk gA ; g rF; vxj d l ckbVkf d l dh [krh e Hkh ykx gkrk gA bu thok.kvk dk dflx feVh e feyku l [kɛc dh x.koÙkk ij Hkh dkb foi jhr vlj ugh iMrk rFkk bl d vfrfjDr db chekfj; k d jkdFkke e Hkh ; thok.k lgk; d gkr gA

v½ i; kx fof/k

cDVhfj; y bukdye fuEufyf[kr rjhd l r; kj fd; k tkrk gA

- 1- lcl igy cDVhfj; k dk dYpj r; kj djr gA
- 2- bl d ckn cDVhfj; k dk nfor dYpj r; kj djr gA
- 3- vr e bl nfor dYpj dk ,d fuf'pr ek=k e dflx feVh e feykr gA

d½ l ko/kkfu; k

- 1- cDVhfj; k d dYpj dh 'k) rk cgr t : jh gA
- 2- cDVhfj; k dh fuf'pr x.kuk Hkh cgr t : jh gA
- 3- cDVhfj; k d dYpj dk vPNh rjg l dflx feVh e feykuk Hkh t : jh gA

3- gkjeku

gkjeku] ik/kk] i'kvk rFkk l {e thok.kvk }kj k ink fd; tkr gA tk thok.k [kɛc dh inkokj e of) e lgk; d gkr g o dN fo'k" idkj d evkckyk bV ¼mikip; h inkFk½ ink djr g ftue bMky , l hfVd , flM , o bMky C; Vfjd , flM ie[k gA ; l c inkFk gkjeku dgykr gA bue l dN gkjeku ik/kk dh tMk dk c<ku e lgk; d gkr g rk dN ik/kk d nlj vxk dk c<kok nu eA gkjeku dk i; kx T; knkrj cM ik/kk rd gh l hfer gA [kɛc ,d fo'k" rjg d ik/kk dh J.kh e vkr g rFkk bu gkjekuk d [kɛc dh [krh e i; kx dju d iek.k cgr de gA bl fun'kky; ij fd; x; i; kxk u ; g l fcr dj fn; k g fd bu gkjekuk dk i; kx [kɛc dh [krh d fy; Hkh fd; k tk l drk g vkj bl l [kɛc dh inkokj e Hkh of) gkrh gA [kɛc ij fo'k"kr; k bUMky C; Vfjd , flM uked gkjeku dk egRo dkQh gn rd t kpk x; k gA bl gkjeku dh cktkj e miyC/k ckM ¼Qkjey'ku½ dk ; fn ikuh d l kFk feyk dj [kɛc d Fkyk

ikjfeHkd [kEc mRiknu

ij fNMdko fd;k tk; rk cVu [kEc dh inkokj e yxHkx 20&30 ifr'kr dh of) gkrh gA [kEc dh nkuk gh i tfr;k& xh"edkyhu vkj 'khrdkyhu cVu e'k:e ij bldk vPNk vIj n[kk x;k gA

v½ i; kx fof/k

bUMky C;Vfjd ,fIM gkjeku dk fNMdko fuEufyf[kr fof/k I fd;k tkrk gA

- 1- cktkj e feyu okyh Qkjey'ku ½fojkmDI&2½ dk ikuh e 0-1 ifr'kr ¼1 xke@yhVj ikuh½ d fgIkc I feykukA
- 2- bl rjg I r;kj ?kky dk 60 fe0yh0 ifr 10 fdykxke [kEc d Fky d fgIkc I [kEc [kkn d cXk ij fNMdko djukA
- 3- ;g fNMdko QIy d igy] nIj o rhIj pj.k ¼pØ½ dh 'k:vkr ij gh djuk pkfg;A
- 4- bl ?kky d fNMdko d ckn Ikn ikuh dk fNMdko mI fnu ugh djuk pkfg;A

c½ I ko/kkfu;k

- 1- gkjeku dk fNMdko doy fuf'pr ¼vuekfnr½ ek=k e gh djuk pkfg;A
- 2- gkjeku dk fNMdko fuf'pr Ie; ij gh djuk pkfg, A
- 3- gkjeku dh x.koUkk dk /;ku j[kuk Hkh vko';d gA
- 4- gkjeku d fNMdko I igy mI ikuh e vPN I /kky yuk pkfg,A



'or cVu [kEc mRiknu dk vkfFkd fo'y"K.k

[kEc mRiknd dk [kEc mRiknu dh ifØ;k o vkfFkdrk dh i;klr tkudkj gkuh pkfg, A cVu [kEc mRiknu d fy; NkVh I NkVh bdkb bruh gkuh pkfg, fd iR;d Qly e de I de 500 fdykxke mRiknu feyA e?;e vdkj dh bdkb ml ekuk tk ldrk g tdk ifr Qly 1]500 I 7]000 fdykxke mRiknu feyA cM vdkj dh bdkb e de I de 7]000 fdykxke ifr Qly mRiknu gkuh pkfg, A mRiknd dk miyC/k lfo/kkvk dk lgh mi;Kx dju d fy; ifr o"K 2&3 Qly yuh gh pkfg, A bld vfrfjDr cktkj I utnhdh] Ikexh dh lLr e miyC/krk rFkk ?kj d InL;k dk [kEc mRiknu e vf/kdkf/kd mi;Kx] [kEc mRiknu I vf/kd ykHk deku e lgk;d gkr gA

uhp [kEc mRiknu dh vkfFkdrk fudkyu d fy; dN mnkgj.k fn; tk jg gA

1- yEch vof/k }kj [kkn cukdj [kEc dh [krh djuk %ikdfrd fLFkr e vk/kkj xke c/kkuk] ftyk Ikuhir & gfj;k.kk%

v% LFkk;h i;th		0;; %: i;%
1- 24x6x3 eh- dk dPpk dejk	&	25]000-00
2- 'KYQ cuku d fy; Ikexh	&	12]000-00
3- QkoM] Li iEi] FkekehVj vkfn dk eY;	&	5]000-00
dy	&	42]000-00

c% vkorh [kpl		
1- xg dk HkIk 40 fDo] nj : 300@ifr fDo	&	12]000-00
2- du 120 fd-xk-] nj : 3-00 ifr fdykxke	&	360-00
3- ;fj;k 50 fd-xk-] nj : 4-00 ifr fdykxke	&	200-00
4- ikV'k 40 fd-xk-] nj : 3-00 ifr fdykxke	&	120-00
5- I ijQLQV 40 fd-xk-] nj : 3-00 ifr fdykxke	&	120-00
6- xg dk pkdj 200 fd-xk-] nj : 10-00 ifr fdykxke	&	2]000-00
7- nokb;k	&	1]000-00
8- Liku 60 fdykxke] nj : 60-00 :i; ifr ckry	&	3]600-00
9- dflx feJ.k cuku dk 0;;	&	1]000-00
10- Jfed nk %pkj ekd d fy;½	&	32]000-00
11- QVdj 0;;	&	2]000-00
dy	&	54]340-00

I ½ LFkk;h i th ij voeY;u iHkkj ¼10 ifr'kr½ o C;k t & 3]500-00
¼15 ifr'kr½ 4 efguk d fy; ;

dy 0; ; ¼cl½ & **57]840-00**

Åij nh xb l kexh l 10 Vu [kkn cuxh

i) 180 fdykxke ifr Vu d fg l kc l 10 Vu [kkn l mRiknu & 1]800 fdykxke

ii) dy vk; @ 90 : i; ifr fdykxke & 1]62]000-00

iii) 'k) vk; ¼1]62]000&57]840½ & 1]04]160-00

2- Ikyu e dUnh; ekr' bdkb l i kLpjhd'r [kkn [kjh nj mRiknu dju dh n'kk e vkfFkd rk

v½ LFkk;h 0; ;

i) gkbMfU l Vh ikyhFkhu fufer mRiknu d{k ¼ikyhgkm l ½ & 40]000-00
 ¼25^x18^x9^½

ii) Li iEi] FkekehVj vkfn ij [kp & 5]000-00

iii) ck l dh jD l & 10]000-00

dy & **55]000-00**

c½ vkorh [kp

ii) 5 Vu [kkn] Liku o dfl x dk eY; & 30]000-00
 ¼ : 6]000-00@Vu [kkn d fg l kc l ½

ii) <ykb dk [kp & 1]000-00

iii) ikyhFkhu cx : 2-00 ifr cx & 1]200-00

iv) et njh ¼, d Jfed] 3 efgu d fy; ½ & 12]000-00

v) nokb; k & 1]000-00

vi) QVdj [kp & 2]000-00

dy & **47]200-00**

I ½ LFkkb i th ij voeY;u iHkkj ¼10 ifr'kr½ o C;k t & 5]000-00
¼15 ifr'kr½ pkj efgu d fy; ;

dy 0; ; ¼cl½ & **52]200-00**

n½ mRiknu o vk;

i) 5 Vu [kkn l 18 fdykxke@fDo d fg l kc l [kEc mRiknu & 900 fdykxke

ii) dy vk; 90@& : i; ifr fdykxke [kEc dh nj l & 81]000-00

iii) 3 ek l e dy 'k) vk; ¼81]000&52]200½ & 28]800-00

¼ Ikyu t l h tyok; e bl rjg l 2&3 Qly yh tk l drh gA½

3- NkVh vof/k I Lo; [kkn cukdj ij; o"K Hkj djhc 20 Vu ifro"K [kEc mRiknu dju dh vkfFkd rk

vko'; d bekjrk gr; Hkfe dh vko'; drk

	bekjrk	;fuV	vkdkj	dy vk; ru %ox QV½
1-	mRiknu d{k %dy 20 Vu [kkn {kerk½	4	20x9x13'	720
2-	mRiknu d{k d IkFk cjkenk	1	36x6x13'	216
3-	dVkb NVkb dejk o dk;ky;	1	15x10x12'	150
4-	dEikfLVx ;kM fcuk Nr dk	1	40x40'	1600
5-	ikLpjhdj.k d{k	1	15x6x12'	90
			dy vkdkj	2776
			;k 260 ox ehVj	

Åij fyf[kr bekjrk d vykok rMh] dflx feVh o exh dh [kkn %ikmYVh eU; j½ dk Hk.Mkj.k dju d fy; Hkh txg dh vko'; drk gkxhA vr½ djhc 500&600 ox ehVj txg pkfg;A

bdkb; dh vkfFkd rk

v- tehu dh [kjhn o mI dk fodkI 3]00]000

c- [kkn cuk; dh bdkb; cuk; dk [kp;

1- dEikfLVx ;kM @ :- 50@& ox QV 80]000

2- ikLpjhdj.k d{k @ :- 900@& ox QV 80]000

3- vkoj gM ikuh dh Vdh 25]000

dy ykxr : i; 4]65]000

I- mRiknu Ifoëkk;

1- mRiknu d{k fuek.k o bly'ku @ :- 900@& ox QV 6]50]000

2- mRiknu d{k d IkFk cjkenk @ :- 100@& ox QV 22]000

3- dVkb&NVkb dejk o dk;ky; @ :- 700@& ox QV 1]00]000

dy ykxr : - 7]72]000

n- e'khuk; dh ykxr

1- I Hkh Ifo/kkvk Ifgr ; j g.Mfyx ;fuV ½3 Vu {kerk oky½ & 4 ux 4]00]000

2- ikLpjhdj.k dej d fy; i [kk %Cykvj½ o okfguh %MfDVx½ ij [kp 50]000

3- mRiknu d{k d fy; ykg d jDI rFkk ikLpjhdj.k dej d fy; ykg dh QfVV;k 2]00]000

4- QVdj [kp tI Li; j] Qkd o Vkdjh bR; kfn 10]000

dy : - 6]60]000

bdkb; dh dy ykxr %v\$cs\$I\$ñ½ : 21]97]000

ikjfeHkd [kEc mRiknu

; - ekuo 'kfDr ij [kp:

1- 5 etnj @ : 4000@ekg 2]40]000

j- dPp: eky o vU; enk e: [kp:

1- rMh 50 Vu @ :- 3000@ehfVd Vu 1]50]000

2- exh dh [kkn 30 Vu @ :- 1000@ehfVd Vu 30]000

3- dflx feVvh 50 D;-eh- @ :- 500@D;- eh- 25]000

4- cht 800 fdykxke @ :- 60 fdykxke 48]000

5- pkdj] ftlle o nokb;k 12]000

dy ;kx :- 2]65]000

y- C;k t o voeY;u

tehu ij dher $\frac{1}{4}:-\frac{1}{2}$ C;k t o voeY;u $\frac{1}{4}:-\frac{1}{2}$

15% C;k t 3]00]000 45]000

bekjrki ij

5% voeY;u o

15% C;k t 9]57]000 1]92]000

e'khuki ij

10% voeY;u o

15% C;k t 6]60]000 1]65]000

dy :- 4]02]000

o- mRiknu ij ykxr o Qk;nk

1- dPpk eky 2]65]000

2- etnjh 2]40]000

3- C;k t o voeY;u 4]02]000

dy :- 9]07]000

100% {kerk ij iR;d dej e 60 fnu dh 6 Qly 18% to ifjoru {kerk ij dy mRiknu $\frac{3}{4}$ 21 Vu

1- [kEc ij ifr fdykxke ykxr $\frac{3}{4}$: 43-19@fdykxke

2- [kEc dk foØ; eY; :- 90@fdykxke $\frac{3}{4}$:- 18]90]000

3- o"K Hkj dy vk; $\frac{3}{4}$:- 9]83]000

130 Vu okf'kd [kEc mRiknu bdkb dh vkfFkdrk

130 Vu okf'kd mRiknu okyh bdkb d fy; fuEufyf[kr bekjr vko'; d g%&

bekjr	I[;k	vkdkj %QhV½	dy txg %ox QV½
1- mRiknu d{k	6	35^x25^x13^	5]250
2- mRiknu d{k d lkFk cjenk	1	75^x12^x13^	900
3- dk;ky;	1	12^x12^x12^	144
4- e'khu d fy; dejk	1	15^x15^x12^	225
5- dEikfLVx ;kM	1	60^x60^x15^	3]600
6- ikLpjhdj.k dejk	1	36^x9^x12^	324
7- ck;yj :e	1	20^x12^x12^	240
8- dflx ikLpjhdj.k dejk	1	12^x12^x10^	144
9- Hk.Mkj	1	15^x15^x12^	225
10- chtkb dejk	1	15^x12^x12^	180

dy LFkku 11]232 ox QV ;k 1044 ox eh-

bld vfrfjDr rMh o vU; lkefx;k dk j[ku dh txg o lMd o jkLr d fy; Hkh txg pkfg,A bl idkj bruh cMh bdkb yxHkx 2]500 ox eh- e LFkxfir dh tk ldrh gA

bdkb dh vkfFkdrk	0;; %yk[k : i;½
v- tehu	10-00
c- [kkn bdkb	
1- dEikfLVx ;kM cuku dk [kp @ : 200 :i; ifr ox QV	7-20
2- [kkn ikLpjhdj.k o dflx ikLpjhdj.k dejk dk [kp @ : 900@& ifr o- QV	4-21
3- chtkb dejk @ : 700@& ifr ox QV	1-26
4- Ckk;yj] tujVj o Hk.Mkj @ : 500@& ifr o- QV	2-32
5- vkoj gM ikuh dk Vd %20000 fyVj½	0-50
dy 0;;	15-49
I- mRiknu d{k	
1- 6 dejk @ : 900 ifr ox QV	47-25
2- ,-lh- lykV dejk @ : 700 ifr ox QV	1-60
3- vkfQl @ : 700 ifr ox QV	1-00
dy 0;;	49-85
dy ;kx %v\$cs\$ l½	75-34

bdkb' dh vkfFkd rk		0;; %yk[k : i; %
; % e'khujh		
1- , -lh- %50 Vu {kerk dk , lh ; fuV%		20-00
2- ck; yj %150 fd-xk- Hkki i- ?k.Vk {kerk%		1-00
3- tujVj %60 fdykokV {kerk%		3-00
4- cfg}kj [kkn e gok nu d fy; i [kk		0-60
5- mRiknu d{k d fy; ykg dh jDI rFkk ikLpjhdj.k dej d fy; ykg dh QfVV;k		12-00
6- QVdj [kp		1-00
dy		37-60
LFkk;h 0;; %n+; %		112-94
vkorh [kp		
d% ekuoh; 'kfDr		
eut j 15]000 : i; ifr ekg		1-80
etnj&12 @ : 4]000 ifr ekg dh nj l		5-76
dy		7-56
[k% dPpk eky %jk&efVfj; y%		
1- Hk l k 300 Vu @ : 3]000 ifr Vu		9-00
2- fpdu eU;kj 200 Vu @ : 1000 ifr Vu		2-00
3- dflx feVvh cukuk& 300 D;-eh- @ : 500 ifr D;-eh-		1-50
4- cht 5-5 Vu @ : 60]000@Vu		3-30
5- b/ku		10-00
6- ftlle] ;fj;k o nokb;k		0-50
dy		26-30
x% C;kt o voeY;u		
1- telu ij C;kt 15%		1-50
2- bekjrk ij voeY;u iHkkj o C;kt 20%		13-07
3- e'khujh ij voeY;u iHkkj o C;kt 25%		9-40
dy		23-97
dy [kp %d+[k+x%		57-83
?k- dy mRiknu o vk; %100 ifr'kr {kerk ij 18 ifr'kr mRikndrk		130 Vu
60 fnu dh 6 Qly; ydj%		
mRiknu [kp yxHkx : i; 44-50@fdyxke		
dy vk; 90]000-00 : i; ifr Vu		117-00
,d o"k e 'k) vk;		59-17

f<xjh ¼lyjkVl½ dh [krh] vkfFkd fo'y" k.k o okf"kd mRiknu ;kt uk

vU; [kku ;kX; e'k:e t l cVu e'k:e] ivky e'k:e ¼okYofj; yk okYofl; ½ f'kVkd e'k:e rFkk nf/k; k e'k:e dh rjg f<xjh Hkh ,d Lokfn"V [kk | e'k:e gA bl e'k:e dk oKkfud uke lyjkVl gA f<xjh e'k:e dk vkdkj vU; e'k:e l dN fhkUu gkrk gA ;g vkdkj e l hihuek ;k ,d cM pEep ;k lyV dh rjg gkrh g] ft l ^N=d^ dgr gA f<xjh dh fofHkUu itkfr;k e N=d fofHkUu jxk dk gkrk gA t l lQn] Hkj] ihyk] xykch] dRFkb bR;kfnA N=d dk Åijh Hkx dN nck gvk fpduk gkrk g vkj fupyh lrg ij yEch&yEch l dMk /kkfj;k gkrh g ftUg fxYl ;k cht/kkj dgr gA fxYl d Åij NkV&NkV djkmk chtk.kvk dk fuek.k gkrk gA f<xjh dk N=d ,d NkV l MBy d Åij yxk gkrk gA fofHkUu itkfr;k e M<y NkV ;k cMk gk l drk gA l Hkh f<xjh dh itkfr;k e M<y e[;r% ,d fdukj ij yxrk g yfdu dkcy f<xjh e ;g chp e gkrk gA f<xjh dh db ipfyr tkfr;k dk fo'o e 0;kolkf;d mRiknu gk jgk g] ftue lyjkVl l ihMI] lyjkVl ɳychyVl] lyjkVl l tkj&dk t] lyjkVl ɳykfjMk] lyjkVl l kbFvukihyh, Vl] lyjkVl vkLVh, Vl bR;kfnA

vk t f<xjh okf"kd mRiknu d vk/kkj ij fo'o e rh l j LFkku ij g vkj bl dh inkokj e[;r% phu] nf{k.k dkfj;k] tkiku] bVyh] rkboku] Fkkby.M vkj fQyhihU l e gk jgh gA gekj n'k e Hkh bldk mRiknu yxkrkj c< jgk g vkj yxHkx 5]000 Vu dk okf"kd mRiknu gk jgk gA ftu jkT;k e bldh inkokj gk jgh g mue vku/kin'k] egkj"V] dukVd] e/; in'k] mMh l k] if'peh cxky] rfeyukM] mUkj in'k] e?kky;] e.khij] vklke ie[k gA

[kku ;kX; vU; e'k:e dh ryuk e f<xjh mxku d db Qk;n g ft l dh otg l ;g fo'o d e'k:e mRiknu e rh l j LFkku ij gA

d½ f<xjh mxku d fy; xg dk Hk l k] /kku dk ivky] eDdh d l [k iUk rFkk MBy vkj nkyk d fNy d] l jte[kh] l k;kchu] eVj rFkk l j l k d vo'k"kk bR;kfn df"k vo'k"kk dk mi;kx fd;k tk l drk gA vr% gekj n'k d dku&d ku e bldh [krh dh tk l drh gA

[k½ f<xjh mxku d fy; [kkn ugh cukuh iMrh g vkj fd l h fo'k"k rjg d okrkoy.k ;k dejk dh t : jr Hkh ugh gkrhA bUg l k/kkj.k ,o l Lr Nli j ;Dr dejk ;k dPph bV k d edku e mxk;k tk l drk gA

x½ f<xjh dh db , l h tkfr;k g ftUg xeh ;k lfn;k e mxk;k tk l drk gA vr% ekle vulkj fdLek dk puko dj o"k Hkj l k/kkj.k l dejk e f<xjh dh Qly mxk l dr gA

ikjfeHkd [kec mRiknu

?k½ f<xjh e'k:e dk /ki e vkl kuh l l [kk;k tk ldrk g vkj vko';drkul kj l [kh f<xjh dk mi;kx
e'k:e d fofHkuu mRikn cuku e fd;k tk ldrk gA

M½ bldk mRiknu dky cgr NKVg gkrk g ½yxHkx 50 l 60 fnu½] vr% chtkb dju d 20 l 25 fnu
ckn inkokj feyuk 'k: gk tkrh gA

p½ f<xjh e vU; e'k:e dh rjg lHkh ikf"Vd rRo ektn g vkj foVkfeyu] ikVhu vkj yo.k ipj ek=k
e ik; tkr gA

v½ f<xjh mxku dh fof/k

f<xjh dh [krh dju d fy; [kr [kfygkuk l iklr df"k&vo'k"kk dk i;kx fd;k tk ldrk gA ft l
fd l h Hkh fdLe d df"k vo'k"kk dk i;kx djuk gk og l [kk gk vkj mle fd l h Hkh rjg dh QQn dk
idki ugh gkuk pkfg,A f<xjh dh [krh fuEufyf[kr pj.kk e ijh dh tkrh gA

1- ek/;e ½ik"kk/kkj½ r!;kj djuk

xg dk Hkl k rFkk /kku dh ijkyh lcl T;knk ipfyr ek/;e gA bl f<xjh e'k:e d mxku gr
mi;Dr cuku d fy, bl mipkfjr djuk iMrk g ft l l ble ektn gkfudkj d l {ethok dk u"V fd;k
tk l dA Hkl d mipkj dh e[;r% rhu fof/k;k g%

d½ xe' ikuh mipkj fof/k

xg d Hkl ;k /kku dk ivky ;k vU; fd l h rjg d df"k vo'k"kk dk fNfnr tV d Fky ;k ckj e
Hkj dj jkr Hkj BM ikuh e xhykdj fy;k tkrk gA nlj fnu bl xhy Hkl dk Fky l fgr xe ikuh e
¾70&80° lfy l ; l ½ 15&20 feuV rd Mkydj fudky yr gA ;gk /;ku nu ;kX; ckr ;g g fd tc
xhyk Hkl k xe ikuh e iMk gk rk ikuh yxkrkj mcyrk jg] rHkh 70 l 80° lfy l ; l rkieku cuk; j [kk
tk ldrk gA B.Mk gku ij bl Hkl dk rkjikyfu ;k lykfLVd 'khV ij Qyk nr g rkfd bl l ikuh
fupM tk;A ;g mipkfjr Hkl k chtkb d fy, r;kj gA

[k½ jklk;fud mipkj fof/k

bl fof/k d vulkj] dN fo'k"kk idkj d QQnuk'kh jlk;uk l Hkl dk thok.k jfgr fd;k tkrk gA
bld fy; ,d 200 yhVj Me ;k lykfLVd Vc e yxHkx 12 l 15 fdykxke Hkl k ;k ivky dh dVvh
dk 90 yhVj ikuh e fhkxk fn;k tkrk gA ,d lykfLVd dh ckYVh e 10 yhVj ikuh e 7-5 xke okfoLVhu
rFkk 125 feyh yhVj ½yxHkx ,d pk; dk NKVg di½ Qkeyhu feyk fn;k tkrk gA feyku d ckn bl
vPNh rjg l fgyk;k tkrk g rkfd ;g jlk;u iUn e cB ugh tk;A vc bl ?kky dk Me e xhy Hkl
d Åij pkjk rjQ Mkydj lykfLVd 'khV l <d fn;k tkrk gA djhc 12&18 ?k.V ckn Hkl dk bl
jklk;fud ?kky l fudky dj ikyhFkhu 'khV ;k iDd Q'k ij Qyk fn;k tkrk g ft l l fd Qkeyhu dh
egd mM tk; vkj Hkl l ikuh fupM tk;A

x½ ikLpjhdj.k fof/k

;g fof/k mu e'k:e mRikndk d fy; mi;Dr g ftud ikI [kkn ¼dEikLV½ cuku d fy; ikLpjhdj.k dh lfo/kk miyC/k gA bl fof/k e lcl igy HkI ;k ivky dh dVvh dk iDd Q'k ij xhyk dj 3&4 QV Åpk <j cuk fy;k tkrk gA vc bl <j dh gj nIj fnu ,d ckj iyVkb dh tkrh gA pkj fnu ckn bl ikLpjhdj.k d{k e Hkj fn;k tkrk gA Cykvj l gok rFkk dej dk rkieku ,d tIk dj fy;k tkrk g rRi'pkr Ckk;yj l Hkki }kjk rkieku 60&62° lfyI; l 6 ?k.V rFkk 40&45° lfyI; l yxHkx 30&40 ?k.V rd cuk; j[kk tkrk gA bld ckn BMk gk tku ij ¼25 l 30° lfyI; l ½ HkI e chtkb dh tkrh gA

2- chtkbI

f<xjh dh db tkfr;k gkrh g ftudk e[;r% B.M ;k xfe;k e mxk;k tk ldrk gA vr% ft l ekle e f<xjh dh [krh djuh gk mlh vulkj mudk puko dj fy;k tkrk gA B.M ekle e lyjkVI vkfLV,VI] lyjkVI ɸyɸjMk] lyjkVI dkudkfi;k rFkk lyjkVI ,jUtkb e[; g rFkk xfe;k e ¼20 l 25° lfyI; l ½ lyjkVI l tkj dkt] lyjkVI l iHMI] lyjkVI ɸychyVI] lyjkVI l kbVhukiHyh,VI rFkk lyjkVI eecufI; l e[; gA cht 30 fnu l T;knk ijkuh ugh gkuk pkfg,A cht dh ek=k 250 l 300 xke ifr 10 l 12 fdykxke xhy HkI dh nj l dh tkuh pkfg,A xhyk HkI k vkj cht dk ,d lykfLVd d ,d Vc e vPNh rjg l feyk dj ikyhFkhu d Fkyk ¼45 l 30 l-eh-½ e 4 l 6 fdykxke xhyk HkI k Hkj fn;k tkrk gA xfe;k e HkI dh ek=k 3 l 4 fdyk xhy HkI l T;knk ugh gkuh pkfg,A Hkj g, Fkyk dk eg ekMdj cUn dj fy;k tkrk gA xfe;k d fnuk e cx d eg dk ijku v[kckj l cUn djuk pkfg, ft l l T;knk xeh ugh gA Fky d pkjk rjQ rFkk iUn e 12 l 15 NkV&NkV 5 feyhehVj 0;k l oky Nn cuk nuk pkfg,A ft l l fd vo'kkf'kr T;knk ikuh ckj fudy tk;A

3- ch t dk Qyko o icU/ku

chtkb fd; g, Fkyk dk ekMdj cUn dj fy;k tkrk g ;k Åijh lrg ij dkxt l <d fn;k tkrk g ft l l fd xhy HkI dh ueh cuh jghA rRi'pkr bu cxx dk mRiknu d{k e j[k fn;k tkrk gA cxx dk j[ku d fy; ykg ;k ckI dh cuh Qe ;k lh<huek jdk dk mi;kx fd;k tk ldrk gA mRiknu d{k ft l dk vkdkj 20^y0x15^pk0x10^Å0 gk] yxHkx 250 l 300 Fky j[k tk ldr gA mRiknu d{k e nk ;k rhu f[kMfd;k gkuh pkfg,A 'kh?k gh chtk l NkV&NkV l Qn rUrvk dk ,d tky Qyu yxrk gA ;g l Qn rUrvk dk tky ekblfy;e dgykrk gA cht Qyr le; dej e idk'k] vkDIhtu vFkok ikuh d fNMdko dh t :jr ugh gA vxj dej e rkieku 28° lfyI; l l c<u yx rk Q'k rFkk fnokjk ij ikuh dk fNMdko dju l rkieku de gk tkrk gA ,;j dyj dh lgk;rk l Hkh dej dk BUMk j[kk tk ldrk gA yxHkx 15 l 20 fnuk e l Qn rUrtky ij HkI ij Qy tk;xkA ftu cxx e rUrtky ijh rjg l Qyk ugh gk rk mUg dN fnu vkj NkM nuk pkfg, ft l l tky ijh rjg Qy tk;A

4 Qyu gr| cxk dk [kkyuk o j[k j[kko

vc cx [kkyu d fy; r;kj gA dHkh&dHkh cxk ij cuk; x; NkV&NkV Nnk l f<xjh fudyuh 'k: gk tkrh gA ml le; pkd ;k CyM l ikyhFkhu dk lko/kkuh l QkM fn;k tkrk g ft l l u;h dfydk; u"V ugh gk ik;A ftu cxk e gjh] uhy ;k xykch jx d rUr fn[kkb n rk mu cxk dk mRiknu d{k l yxHkx 100 ehVj nj Qd nuk pkfg, D;kfd , l cxk e chekj d y{k.k gA cxk dk fofHkUu rjhdK l [kkyk tk ldrk g t l l kj ikyhFkhu gk gVk fn;k tk;] flQ mij dh lrg dk [kkyk tk; ;k nk l rhu lVhehVj vdkdj d vkB l nl Nn cuk; tk;A xfe;k e ij cx [kkyu l ikuh dk ckj&ckj fNMdko djuk iMrk gA vr% flQ Åijh lrg ;k Nn cuku l cx l [kr ugh gA f<xjh dh inkokj d fy; dflx dh t :jr ugh gkrh g rFkk e'k:e cx d pkjk rjQ l vkr gA cxk d [kkyu d ckn mUg ,d nlj l yxHkx 10&15 lVhehVj nj&nj j[kuk pkfg,A f<xjh e'k:e dh dfydk; cuu o mud fodkl d fy; idk'k dh vko';drk gkrh g vr% ifrfnu 4 l 5 ?k.V V;cykbV vFkok cYc dk idk'k nuk pkfg,A dej e vknrk Hkh yxHkx 70&80 ifr'kr gkuh pkfg,A vr% Q'k] fnokjk rFkk cxk ij Q0okj l ikuh dk fNMdko djuk pkfg,A ikuh fNMdr le; bl ckr dk /;ku j[kuk pkfg, fd ;fn f<xjh rkMu yk;d gk jgh gk rk N=d ij ikuh dk teko ugh jgA ikuh dk fNMdko ge'kk f<xjh rkMu d ckn djuk pkfg,A dej dh f[kMfd;k rFkk njokt ifrfnu nk ?k.V [kyk j[kuk pkfg; ft l l dku Mkbvkd l kmM ckj fudy tk; rFkk vkd lhtu dh mfpr ek=k dej e fo|eku jgA vxj f<xjh dk N=d NkVk rFkk MUBy cMk gk rk le> yuk pkfg; fd vkd lhtu i;klr ugh gA , l le; e f[kMfd;k dk T;k nk nj rd [kyk j[kuk pkfg;A mRiknu d{k e ,D l kLV Qu yxkdj Hkh dku Mkbvkd l kmM dh ek=k de dh tk ldrh gA cxk dk [kkyu d yxHkx 6 l 10 fnuk ckn dfydk; fudyuh 'k: gk tkrh g tk dN fnuk e c<dj ifjiDo gk tkrh gA tc f<xjh d N=d dk ckjhd dukjk vUnj dh rjQ eMu yx rk le> yuk pkfg, fd Qly rkMu yk;d gk x;h gA i.k fodflr e'k:e dk gkFk l ejkMdj rkM yuk pkfg;A

5- mit

f<xjh dh inkokj 35 l 40 fnuk rd vkrh jgxh rFkk 1 fdykxke l [k Hk l l yxHkx 500 l 900 xke rd e'k:e iklr gk ldrh gA igyh Qly d dN fnuk $\frac{1}{4}$ yxHkx 10&16 fnuk rd $\frac{1}{2}$ ckn nljh Qly cxk l vkrh gA f<xjh dh inkokj Hk l dh x.koÜkk rFkk f<xjh dh itkfr ij fuHkj djrh gA f<xjh dh rMkb d ckn MUBy d lFk yxh ?kk l dk dkVdj gVk fn;k tkrk g rFkk nk ?k.V ckn fNfnr ikyhFkhu e id dj cktkj e Hktuk pkfg,A f<xjh dk l [kk;k Hkh tk ldrk gA mld fy; f<xjh dk lQ eyey d diM ij ?ki e ;k goknkj dej e nk l rhu fnu rd j[kA l [kh f<xjh dk vPNh rjg l lhycUn djuk pkfg; rFkk bl dk mi;kx e yku l igy xe ikuh e 10 feuV rd fhkxk nuk pkfg;] mld ckn mldh lCth vFkok li cukuk pkfg;A f<xjh d chtk.k $\frac{1}{4}$ Likl $\frac{1}{2}$ l ,yth gkrh gA vr% mRiknu d{k e tku l igy ukd o eg ij iryk diMk ck/k yuk pkfg; rFkk f[kMfd;k rFkk njokt [kkyu d nk ?k.V ckn dej e io'k djuk pkfg,A

c½ vkfFkd fo'y"k.k

f<xjh mRikndk dk bld mRiknu dh ifØ;k rFkk vkfFkd fo'y"k.k dh tkudkj vfr vko';d gA f<xjh e'k:e mRiknu 'k: dju l igy ;g t:jh g fd bldk if'k{k.k fd lh Hkh ljdkjh foHkx ;k xj ljdkjh lLFkk l iklr dj yuk pkfg, rFkk 'k: e bldk mRiknu NkV Lrj ij vkjEHk djuk pkfg, ftll mRiknd dk lefpr Kku gk tkrk gA f<xjh mRiknu dh cMh bdkb 'k: dju l igy fuEufyf[kr ckrk dk v/;;u dj yuk pkfg,A

1- df"k vo'k"kk dh miyC/krk

t lk fd igy gh crk;k tk pdk g f<xjh dk fd lh Hkh rjg d df"k l iklr vo'k"kk ij mxk;k tkrk gA vr% ;g t:jh g fd df"k vo'k"k o"k Hkj lLr nkek ij fujuUrj miyC/k gA egx df"k vo'k"kk ij mxku l bld inkokj dh dher Hkh vf/kd gkxh vkj vkfFkd ykHk de gkxkA

2- ikuh rFkk fctyh dh miyC/krk

l Hkh [kEck d mRiknu d fy; ikuh dh vko';drk gkrh g] f<xjh d fy; Hkh ikuh dh miyC/krk vko';d g rFkk Qyu d nkju idk'k nu d fy, fctyh Hkh 4 l 6 ?k.V gkuh pkfg,A

3- if'kf{kr depkj

viu depkfj;k dk if'k{k.k Hkh vko';d gA db ckj Lo; dk ckjg tku dh fLFkr e depkj x.k inkokj dh n[kHkky djr gA if'k{k.k d vHkko e T;knk ikuh nu] idk'k dk icU/k ugh dju rFkk vkDlhtu dh ek=k Bh d ugh gku l inkokj de gkrh gA

4- inkokj dk foi.ku

db ckj inkokj dk le; ij foi.ku ugh gku l udlku gk tkrk gA vr% ;g t:jh g fd f<xjh dk rkMu d ckn 'kh/k gh cktkj e foi.ku d fy, Hkt nuk pkfg,A tk inkokj ugh fcd] ml lgh rjhd l l[kk y ;k bldk vpj bR;kfn cuk yA f<xjh dh ikf"Vdrk d ckj e yxk dk vf/kd tkudkj ugh gku l Hkh foi.ku e leL;k vkrh gA vr% yxk dk bldh ikf"Vdrk rFkk 0; tu d ckj e ipkj ek/;ek l voxr djuk pkfg,A

f<xjh mRiknu d fy; ,d NkVh bdkb ft le ,d dej $\frac{1}{2}20^{\wedge}y \times 15^{\wedge}p \times 10^{\wedge}A^{-\frac{1}{2}}$ e yxHkx 250 l 300 cx j[k tk l d] ,d ifjokj d 0;olk; d fy; i;klr gA fu;fer inkokj yu d fy; ifr l lrg 40 l 50 cxk dh chtkb djuh pkfg, rFkk bu g bl h Øe e [kkyuk pkfg,A ,d lkFk lkj cxk dh chtkb dju l inkokj ,d lkFk iklr gkxh rFkk bld foi.ku e dfBukb;k vk;xhA f<xjh e'k:e mRiknu d fofHkUu rjg dh mRiknu bdkb;k t l ikyhFkhu 'khV l cukb xb] dPph bV[k] ijkyh rFkk ck l l cuk gvk ?kj ;k iDdh bV[k l cuk; x; dejk e bld cx j[k tk l dr gA ;gk ij f<xjh mRiknu d fy; ikyhgkml l mRiknu d fy; vkfFkd fo'y"k.k fn;k tk jgk gA

ikyhgkml l mRiknu d fy; vkFkd fo'y'k.k

ij LFkk;h iith		: i;I
1- ikyhgkml dk [kpk %20^x15^x10^%	&	25]000-00
2- Li iEi] ,d	&	5]000-00
3- xYoukbTM Vc ;k Me] 4 ek=	&	1]200-00
4- jdk dk [kpk %ckl ;k ykg dh jd%	&	10]000-00
5- FkekehVj] cYc bR;kfn	&	250-00
dy LFkk;h ykxr	&	41]450-00
ii) vkorh [kpI		
1- Hk l k ;k ijkyh] 5 fDoVy @ : 300@fDo	&	1]500-00
2- ikyhFkhu cx dk [kp %300 cx%] @ : 120@fdyxke	&	480-00
dy 4 fdykxke		
3- cht ij [kp] 50 fdykxke @ : 60@fdyxke	&	3]000-00
4- ,d Jfed %40 fnuk d fy;% @ : 100 ifrfnu	&	4]000-00
5- QQnuk'kd %ckfoLVhu rFkk Qkeyhu%	&	500-00
6- xg dk pkdj ;k pkoy dh ikfy'k lEijd	&	500-00
50 fdykxke @ : 10@fdyxke		
7- vU; [kp %fct yh] ikuh bR;kfn%	&	1000-00
dy vkorh [kpI	&	10]980-00
iii) LFkk;h iith ij voeY;u %10 ifr'kr : i;I 4]145%	&	10]362-00
o C;k t %15 ifr'kr : i;I 6]220-00% 6 QIy d fy;I		
d% ,d QIy ij voeY;u rFkk C;k t	&	1]727-00
[k% vLFkk;h [kpk	&	10]980-00
dy ykxr	&	12]707-00
iv) mRikndrk rFkk vk;		
d% 80 ifr'kr mRiknu {kerk	&	400 fdykxke
[k% vk; @ : 50@fdyxke	&	20]000-00
x% 'k) vk;@QIy	&	7]293-00

I % okf'kd mRiknu ;k tuk

f<xjh e'k : e dh yxHkx 32 itkfr;k lkj fo'o e ikb tkrh g rFkk ble l yxHkx lkyg itkfr;k dh 0;olkf;d inkokj dh tkrh g tk bl idkj g% lyjkVI l iHMI] lyjkVI 7ykfjMq lyjkVI l tkj&dk t] lyjkVI 7ychyVI] lyjkVI vkLVh,VI] lyjkVI ,jhu t kb] lyjkVI flVhukfiyh;VI] lyjkVI dkudkih;k] lyjkVI eEcuh; l] lyjkVI fllVhMh;k l l] lyjkVI QkIyVI] lyjkVI vkiU'kh;kb]

lyjkVI V;cjjth;e bR;kfNA f<xjh dh fofHkUu itkfr;k dh fo'k"krk g fd ; flQ n[ku e gh vyx&vyx ugh gkrh g vfir budk Lokn rFkk ink dju d fy; budk rkieku Hkh vyx&vyx gkrk gA dN le; igy rd] f<xjh dh [krh e[;r% flQ xfe;k e viy l flrEcj rd dh tkrh Fkh yfdu v/;;u dju ij ik;k x;k fd dN itkfr;k xfe;k d fy; mi;Dr g rFkk dN itkfr;k lfn;k e mxku d fy,] tc rkieku 14&20⁰ lFYI;l rd gkrk g rFkk mudk mRiknu Hkh mlh le; vPNk gkrk gA

lfn;k e mxk; tku okyh fdLe lyjkVI vkLVh;VI] lyjkVI flYkfjMk] lyjkVI ,jhu tkb rFkk lyjkVI QklyVI gA vU; l Hkh fdLe xfe;k e mxku d fy; mi;Dr gA dN itkfr;k t l lyjkVI flYkfjMk rFkk lyjkVI flYchyVI dk xeh ;k lnh nkuk _rvk e mxk;k tk ldrk gA bu l Hkh rF;k dk /;ku e j[kdj f<xjh dh o"k Hkj inkokj yu d fy; okf"kd ;ktuk r;kj dh xb g ft ldk ikyu dj e'k:e mRiknd o"k Hkj f<xjh dh inkokj y ldr gA

e'k:e mRikndk dh lfo/kk d fy; f<xjh dh okf"kd ;ktuk dk pkj pj.kk e ckV ldr gA

1- tuojuh l ekp

tuojuh ekg e lyjkVI flYkfjMk rFkk lyjkVI vkLVh,VI dh chtkb dh tkuh pkfg,A bl le; mUkj Hkkjr e dej dk rkieku yxHkx 4&10⁰ lFYI;l rd gkrk g vr% lEijd feyku l QQn dk tkyk tYnh Qyrk g yfdu fQj Hkh cht Qyu e yxHkx 35&40 fnu dk le; yx tkrk g rFkk Qjojh rFkk ekp rd inkokj vkrh jgxhA ekp d egghu e gh ,d ckj fQj l lyjkVI flYkfjMk ;k lyjkVI vkLVh,VI dh chtkb dh tk ldrh g ft ldk Qly viy rd vkrh jgxhA

2- vily l tu

xeh d ekle e vdy xg dk Hk l k vPNk ugh jgrkA vr% ivky rFkk Hk l dk feJ.k%1%1 vuikr% vPNh inkokj nrk gA lyjkVI flYchyVI] lyjkVI lihMI] lyjkVI tkekj ;k lyjkVI l tkj&dk t dh chtkb dh tk ldrh g ft ldk dod tky 15 l 20 fnu e ijh rjg l Qy tk;xkA budh inkokj ij eb rFkk tu rd pyr h jgxhA bl le; xeh vf/kd gku d dkj.k ikuh dk fNMdko T;k nk djuk iMxkA

lkj.kh% f<xjh dh fHkUu&fHkUu tkfr;k dk mxku; dk rkieku rFkk inkokj

f<xjh dh i tkfr	mfpr rkieku inkokj d fy; le; ¼ l fYI ; l ½	ch t Qyu dk le; ¼fnu%	inkokj xk0@fdykxke 'k"d ek/;e	Qlyk dh l[;k	
lyjkVI flychyVI	22&26 ⁰	12&14	18&22	600&900	2
lyjkVI l tkj&dk t	22&26 ⁰	12&14	18&25	500&700	3
lyjkVI l ihMI	22&26 ⁰	16&18	22&28	400&750	4
lyjkVI b;k l	22&26 ⁰	16&18	25&30	300&500	5
lyjkVI vkLVh, VI	12&22 ⁰	20&25	30&35	300&500	6
lyjkVI flYkfjMk	15&22 ⁰	16&18	25&30	300&500	7

ढिंगरी मशरूम उत्पादन



भूसे को भिगोना



रासायनिक उपचार 12-16 घंटों तक रखना



3



भूसे को निथारना



बीजाई करना

5



बीज युक्त बैगों को कमरे में रखना

6



बैगों में कवक जाल फैलाव

7



कवक जाल युक्त बैगों से पॉलीथीन हटाना

8



कलिकाओं का बनना

9



विकासशील कलिकाएं

10



परिपक्व ढिंगरी मशरूम

bl le; NkV cxk $\frac{1}{2}$ yxHkx rhu fdykxke $\frac{1}{2}$ e xhyk Hk l k Hkjuk pkfg, rFkk Fkfy; k dk v[kckj d dkx t l cUn djuk pkfg, rkfd cxk dk rkieku dej d rkieku l T;knk ugh c<A bl le; ikuh cgr T;knk mM tkrk g vr $\frac{1}{2}$ cxk dk ijk ugh [kkyuk pkfg,A

3- tykb l flrEcj

tykb d iFke l l rkg e lyjkVI l tkj&dk t] lyjkVI flVhukihyh,VI ;k lyjkVI η ychyVI dh ch t kb djuh pkfg;A ikuh dk fNMdko FkkMk de djuk pkfg; D;kfd vf/kd ikuh dh otg l f<xjh l M tku dk [krjk cuk jgrk gA flrEcj d vUr e lyjkVI η ykfjMk ;k lyjkVI vkLVh,VI dh ch t kb djuh pkfg; ft l l bl dh inkokj vDrcj l 'k: gk tk;xhA

4- vDrcj l fnlEcj

vDrcj l fnlEcj rd dk le; lyjkVI η ykfjMk] lyjkVI vkLVh,VI rFkk dkcy f<xjh $\frac{1}{2}$ lyjkVI ,jhu t kb $\frac{1}{2}$ d fy; mi;Dr gA dkcy f<xjh dk ch t Qyu e yxHkx 45 l 55 fnu yxr g rFkk bl d fy; Hk l ;k ivky d l kFk lEijd ;k llyheUV'ku t :jh gA

dn /;ku nu ;kX; ckr

f<xjh e'k:e dh [krh djr le; fuEu fyf[kr ckrk dk /;ku e j[kuk pkfg,A

- 1- xfe;k e lEijd $\frac{1}{4}$ llyheV $\frac{1}{2}$ dk i;kx ugh djuk pkfg, D;kfd lEijd feyku l dHkh&dHkh rkieku 4&5^o lfy l;l rd c< tkrk g rFkk f<xjh dk ch t Bh d l Qy ugh ikrk gA
- 2- xfe;k e cx e Hk l ;k ivky dh ek=k ikp fdykxke l vf/kd ugh Hkjuh pkfg,A
- 3- dHkh Hkh l kj cxk dk Qyu d fy; ,d l kFk ugh [kkyuk pkfg, D;kfd ,d l kFk [kkyu ij l kj cxk dh inkokj ,d l kFk gkxh ft l l rkMkb e cgr T;knk ij'kkuh;k vk l drh gA
- 4- rkMkb d rjUr ckn f<xjh dk Fkfy;k e cUn ugh djuk pkfg, D;kfd f<xjh dh ueh Fkfy;k e tek gk tk,xhA



nf/k;k e'k:e dh [krh o vkfFkd fo'y"k.k

nf/k;k e'k:e dk oKkfud uke *dyk lkbch bfmDk* g rFkk Hkkjr o"e loIFke bl lQyrkiod lu 1974 e if'peh cxky e oKkfud idk;LFkk o pnk }kjk [kktk x;k rFkk ckn e Hkkjr; cksokuh vu l/kku lLFkk] cxykj $\frac{1}{4}$ dukVd $\frac{1}{2}$] egkj.k.kk irki df"e fo'ofokjy;] mn;ij $\frac{1}{4}$ jtLFkk $\frac{1}{2}$,o rfeyukM df"e ,o ik[kfxd fo'ofokjy;] dk;EcVj $\frac{1}{4}$ rfeyukM $\frac{1}{2}$ e 'kk/k dk; gvk ft l l bldk 0;olkf;d mRiknu n'k e [kk l dj nf{k.k Hkkjr e 'k: gk x;kA fiNy dN o"kk e mUkj Hkkjr e Hkh bl e'k:e d ckj e dkQh tkx:drk vkb g rFkk e'k:e mRikndk u [krh djuk ikjEHk dj fn;k gA

nf/k;k e'k:e dk vkdkj o :i cVu e'k:e l feyrk&tyrk gA 'or cVu e'k:e dh vi{kk nf/k;k e'k:e dk ruk vf/kd ekly] yEck o vk/kkj ij dkQh ekVg grk g] di cgr gh NkVh rFkk tYnh [kyu okyh grh gA nf/k;k e'k:e dh 'kYQ ykbQ $\frac{1}{4}$ rMkb d ckn Hk.Mkj.k dju dh vof/k $\frac{1}{2}$ vf/kd grh gA ekx de gku ij e'k:e dh rMkb nk&ru fnu nj l Hkh dju ij x.kork e deh ugh vkrh gA

mxku dh fof/k

nf/k;k e'k:e dk mxku dh rduhd cgr gh ljj g rFkk f<xjh e'k:e d leku gh gA vrj doy bruk g fd ble dod tky Qyko d ckn cxk l ikyhFku ugh gV;k;k tkrk g cfYd cVu e'k:e dh rjg dflx ijr p<k nh tkrh gA mxku dh fof/k fuEufyf[kr gA

ek/e ;k ik"kk/kkj r;kj djuk

nf/k;k e'k:e $\frac{1}{4}$ *dyk lkbch bfmDk* $\frac{1}{2}$ dk db idkj d ek/e;ek $\frac{1}{4}$ ik"kk/kkj $\frac{1}{2}$ ij mxk;k tk ldrk gA ;g fyfxuu lY;ykt o geh lY;ykt ;Dr df"e vo'k"kk ij vk lkuh l mxrk gA bl [kEc d fy; i;kx fd;tku okyk ek/e;e rktk o l [kk gkuk pkfg,A le; l igy dkVh xb Qly dk Hk l k vFkok ckfj'k e Hkhxk gvk Hk l k fofHkuU vokNuh; QQnk d mxu e lg;k;rk djrk g tk vUrr% nf/k;k e'k:e dh Qly d [kjk c gku dk dkj.k cur gA bl e'k:e dk pkoy] xg] jkxh] eDdk] cktj dk Hk l k] dik l d ru] xlu dk pj] :b o tV d 0;Fk] eDdk d MBy] pk; vFkok dkQh l iklr vif"eV inkFkk ij vk lkuh l mxk;k tk ldrk gA vukt dk Hk l k t l xg] pkoy vkfn tk vk lkuh l fey tkr g] vf/kdrj mi;kx e yk, tkr gA xg d Hk l dk lh/k gh ;k ivky dk NkV&NkV VdMk $\frac{1}{2}$ lOeh0 yEc $\frac{1}{2}$ e dkV dj l kQ ikuh e 8&16 ?k.V d fy; fhkxrk gA Hkki l ikLpjhdj.k djuk gk rk fhkxku d fy; de le; fn;k tk ldrk gA ikuh e fhkxku l ek/e;e vko';d vknrk vk tkrh gA ek/e;e dk ckj e Hkj dj ikuh e Mkyu l fhkxku dh lfo/kk jgrh gA ik"kd ek/e;e e miyC/k ud lunk;d l{ethfo;k dk ekju d fy; bl mipkfjr fd;k tkrk gA ;g rhu idkj l fd;k tk ldrk gA

1- xe' ikuh mipkj fof/k

ikuh dk ,d [ky eg oky cru e mcky k tkrk gA mijkDr fof/k l xhy fd; x; ik"kd ek;/e dk ckjh e Hkj dj bl ikuh e Mky nr g o 80&90° lfyI; l rkieku ij 40 feuV d fy; mcky k tkrk gA NkV Lrj ij ;g rduhd cgr ykdfi; gA

2- ok'i&ikLpjhdj.k

bl fof/k viuku d fy, ikLpjhdj.k d{k dk gkuk vko';d gA xhy ik"kd ek;/e dk ikLpjhdj.k dej e Hkj nr gA ok'i tfur ;= ¼ck;yj½ l ok'i ink dj bl dej dk rkieku 65° lfyI; l rd ykr g vkj ;g fLFkfr 5&6 ?k.V rd cuk dj j[kr gA l kFk gh dej e gok dk lokru fd;k tkrk g ft l l ij dej e rkieku ,d l k jgA

3- vkVkdyc }kjk futehdj.k

ik"kd vk/kkj dk 35&45 l0eh0 d ikyhikikbyhu cx e ifr cx 2&3 fdykxke xhy ek;/e dk Hkj k tkrk g vkj 15 ik.M ifr ox bp ¼121° lfyI; l ½ ij ,d ?k.V d fy; vkVkdyc e fut hohdj.k fd;k tkrk gA

ik"kd ek;/e d mipkj d ckn bl chtkb oky dejk e B.Mk gku vkj chtkb dju d fy; j[kk tkrk gA chtkb d le; ek;/e e ueh 60&70 ifr'kr d chp gkuh pkfg,A ik"kd ek;/e dk ;fn lgh rduhd l u r;kj fd;k tk, rk ble vud idkj dh chekfj;k o gkfudkj d QQn yx l dr gA blfy; ik"kd ek;/e dk chtkb o bld mijkr j[k tku oky dejk e mfpr njh ij r;kj djuk pkfg,A tk 0;fDr ik"kd ek;/e dk dkVu o xhyk dju dk dk; dj jgk gk ml chtkb o cx Hkju vkfn dk; ugku o l kQ diM iguu d ckn gh djuk pkfg,A

chtkb o cht dk Qyuk

chtkb dh rduhd vk;LVj e'k:e d leku gh gA chtkb 3&4 lrgk e dh tkrh gA fut hohdj.k oky cxk e cht dk vk/kkj e vPNh rjg feyk;k ;k lkjk cht Åijh lrg ij Mkyk tkrk gA cht dh ek=k xhy ek;/e dk 4&5 ifr'kr j[kh tkrh gA chtkb d ckn cxk dk v/kj e cht Qyu d fy; 25&35° lfyI; l rkieku ij j[kk tkrk gA vknrk 80 ifr'kr cukdj j[kh tkrh gA cht Qyu e yxHkx 20 fnu dk le; yxrk gA tc cht vPNh rjg Qy tk, rk ek;/e ij dflx fcNku d fy; vkj Qly yu d fy; nlj dej e y tk;k tkrk gA

cx Hkju] chtkb o cht Qyu d nkjku ic/ku

d½ cx Hkju o chtkb d fy; mi;Dr dej e dk; 'k: dju l igy QkeYMhgkbM dk 1 ifr'kr ?kky cukdj l lrgk e nk ckj fNMdko djuk pkfg,A dk; d nkjku dej e rho xfr l gok ugh pyuh pkfg,A cM Lrj ij [krh dju d fy; bu dejk e ek= ghik fQYVj l Nuh gb gok gh vkuh pkfg,A cht Qyu d fy; fuf'pr dejk dk fuEufyf[kr j l k;uk dk fNMdko djuk pkfg,A

ikjfeHkd [kEc mRiknu

- 1- QkeYMHgkbM 0-5 ifr'kr $\frac{1}{5}$ fe0yh0@yhVj ikuh $\frac{1}{2}$ lIrkge ,d ckjA
- 2- eykfFk;ku 0-1 ifr'kr $\frac{1}{4}$ fe0yh0@yhVj ikuh $\frac{1}{2}$ lIrkge ,d ckjA

dej e pgk o dhM&edkMk l cpko dk mÙke ic/k ykg d Qe e ukbyku dh tkyh dk f[kMfd;k vkfn e yxkdj djuk pkfg,A

dflx r;kj djuk o ijr p<kuk

dflx dk vfHkik; ek/;e dh Åijh lrg dk cht Qyu d ckn ikLpjhdr dflx feVvh l 2&3 l0eh0 rd <d nuk gA dflx feVvh mxu okyh e'k:e dk n< vk/kkj] vko';d ueh rFkk ek/;e l xlk d cnyko e l gk;rk nrh gA dflx feVvh cuku gr 75 ifr'kr feVvh o 25 ifr'kr cky feyk dj bl vkVkdyc e 15 ik.M ifr ox bp $\frac{1}{121}^0$ lfyI;l $\frac{1}{2}$ ij ,d ?k.V d fy, j[kr gA vkVkdyc u gku ij jlk;fud fof/k }kj k mipkj djr gA QkeYMHgkbM jlk;u d 4 ifr'kr ?kky l dflx dk ,d lIrkge igy mipkfjr djr gA jlk;u dh ek=k feVvh dk vPNh rjg xhyh dju d fy; dkQh gkuh pkfg,A mipkj dju d ckn feVvh dk ikyhFkhu l vPNh rjg <d nr g ft l l nok mM u ik, vkj gj nk fnu ckn feVvh dk myV&iyV nr g ft l l dflx djr le; nok feVvh e 'k"ku jgA cx dh Åijh lrg dk ,d lkj dj ml ij dkcUMfte $\frac{1}{4}$ -1 ifr'kr $\frac{1}{2}$ o QkeYMHgkbM $\frac{1}{4}$ -5 ifr'kr $\frac{1}{2}$?kky dk fNMdco djr gA bl d ckn dflx feVvh dh 2&3 l0eh0 rg ,d lkj lkjh lrg ij fcNk nr gA bl dflx ijr ij Hkh bu nokb;k d ?kky dk fNMdco bl rjg djr g fd feVvh fcYdy xhyh gk tk,A

dflx mijr n[kHkky

dodtky dk dflx dh lrg rd vku e yxHkx 10 fnu dk le; yxrk gA bl le; dej e rkt h gok nuk 'k: fd;k tkrk gA lkFk gh 30&35 0 lfyI;l rkieku o 80&90 ifr'kr vknrk cukdj j[kh tkrh gA bl nkjku fNrjk;k gvk idk'k Hkh inku fd;k tkrk gA okrkoy.k e bu cnykok d mijkUr 3&5 fnuk e uotkr e'k:e dfydk; utj vku yxrh g tk ,d lIrkge d vUnj i.k :i l fodflr gk tkrh gA tc bl dh yEckb 7&8 l0eh0 gk tk, rk bUg gYdk lk ?ekdj rKM fy;k tkrk g] tM dk dKV dj lkQ dj fy;k tkrk g rFkk fNn;Dr ikyhFkhu fyQkQk e Hkj dj cpk tkrk gA [kEc dk vf/kd le; rd rkt j[ku d fy; fDyu fQYe e yiV dj j[kk tk ldrk gA

dflx o Qly d nkjku ty ic/ku

dflx d le; cxk dk [kkyu d ckn lÙkg ij dkcUMfte 1 xke QkeYMHgkbM 5 fe0yh0 ifr yhVj ikuh e ?kkydj fNMdco djuk pkfg,A dflx dju d ckn Hkh bl h ?kky dk fNMdco dflx d Åij rFkk dej e djuk pkfg,A 'kke dk ;k vxy fnu eykfFk;ku 0-1 ifr'kr ?kky dk fNMdco efD[k;k l cpu d fy; djuk pkfg,A bl nokb dk lh/k e'k:e d Åij ugh fNMduk pkfg,A

;fn cx dh lrg ij fdlh idkj dh QQn $\frac{1}{4}$ uhyh] gjh ;k Hkj $\frac{1}{2}$ utj vkrh g rk mlh LFkku ij 4 ifr'kr Qkeyhu dk ?kky $\frac{1}{4}$ 0 fe0yh0 ifr yhVj ikuh $\frac{1}{2}$:b dk fhkxdj yxkuk pkfg,A bl l QQn ej

tk,xhA Qly d ckn cxk dk Qdu l igy 2 ifr'kr QkeYMhgkbM d ?kky dk fNMdko cxk d Åij vPNh rjg djuk pkfg, vkj bld i'pkr cxk dk Qke l nj Qduk pkfg,A e'k:e dh Qly yu d ckn ek;/e o dflx feVvh] [kkn ;k dpvk [kkn cuku e mi;kx dh tk ldrh gA

vPNh o LoLFk e'k:e iklr dju d fy; ty ic/ku vfr vko';d gA cjlkr d ekle e ikuh fu;f=r ek=k e nuk pkfg, vkj ifrfnu doy ,d ckj fNMdko dkQh gkrk gA lfn;k e ikuh nk ckj fNMdk tk ldrk gA xfe;k e ikuh dk ok"ihdj.k vR;kf/kd gkrk g vr% dej o ik"kd vk/kkj e vko';d ueh cuk, j[kuk nyHk gkrk gA ,l le; e Q'k ij jr vkfn fcNkdj xhyh dh tk ldrh gA ikuh dk fNMdko 3&4 ckj rd fd;k tk ldrk gA dflx dk fnu e db ckj N dj ueh dk vnktk yxk;k tkuk pkfg,A ikuh d fNMdko dk bl idkj djuk pkfg, fd dejk e 80&90 ifr'kr ueh yxkrkj cuh jgA

vkfFkd fo'y"K.k

nf/k;k e'k:e ¼dyk lkbch bfUMd% ,d m".k okrkoy.k e mxu okyh e'k:e gA vr% bl m".k {k=k e rFkk mu {k=k e tgg bl e'k:e d vudy okrkoy.k o"K Hkj jgrk g] o"K Hkj mxk;k tk ldrk gA vU; {k=k e ekleh Qly d rkj ij dN eghuk e tc rkieku bl e'k:e d vudy gk] mxk;k tk ldrk gA bldh mRiknu ykxr bl d fy; i;kx gku oky dPp eky dk eY;@ifr fdykxke mit] Qke dk vkdkj vkj bld Fkkd foØ; eY; ij fuHkj djr gA oreku e n'k d fofHkUu Hkkxk e bldk Fkkd eY; 45&60 : i; ifr fdykxke rd jgrk gA fuEufyf[kr lpuk bl e'k:e dk ,d ek;/e bdkb e vklr mRiknu d fy; ,d ekMy vkfFkd fo'y"K.k gA bl e'k:e d mRiknu eY; fudkyu d fy; mijDr ckrk dk /;ku j[kk tk,A

ipk l fdykxke ifr fnu mRiknu d fy; nf/k;k e'k:e dk vkfFkd fo'y"K.k

okf"kd vko';drk

dek d	oLr	ek=k	eY; ¼yxHkx½
1-	/kku dh ijkyh	36500 fd0xk0	36]500-00
2-	ch t	4600 fd0xk0	2]30]000-00
3-	mRiknu d fy; ikyhFkhu cx	500 fd0xk0	38]500-00
4-	ifdx gr ikyhiki kbyhu cx	500 fd0xk0	38]500-00
5-	dflx feVvh	&	10]000-00
6-	FkM cky	&	2]000-00
7-	QkeYMhgkbM	50 yhVj	3]750-00
8-	ckfoLVhu	2-5 fd0xk0	2]000-00
9-	eykfFk; ku@U; oku	2 yhVj	1]600-00
10-	CyhfpX ikmMj	50 fd0xke	1]000-00
11-	Jfed ¼: i; 2500@& ekg½	3 ¼12 ekg½	90]000-00

दूधिया मशरूम उत्पादन



भूसे को भिगोना



रासायनिक उपचार 12-16 घंटों तक रखना



3



4

भूसे को निथारना



बीजाई करना

5



बीज युक्त बैगों को कमरे में रखना

6



बैगों में कवक जाल फैलाव

7



केसिंग परत युक्त बैग

8



कलिकाओं का बनना

9



विकासशील कलिकाएं

10



परिपक्व दूधिया मशरूम

11



भण्डारण

12

dek d	oLr	ek=k	eY; %yxHkx%
12-	iku h		2]400-00
13-	fct y h		3]400-00
14-	<ykb		10]000-00
15-	bekjr dk fdjk;k		12]000-00
16-	fofo/k [kp		12]000-00
dy			4]93]650-00 ;k 5]00]000-00

rktk e'k : e mRiknu %fdyxke%

	50 ifr'kr mRikndrk		100 ifr'kr mRikndrk
rktk e'k : e mRiknu %fdyxke%=	18250	=	36]500-00
Lo; mi; kx d fy; =	180	=	180-00
u"V gk l drh g =	180	=	360-00
foØ; d fy; miyC/k =	17890 ;k	=	35]960-00 ;k
=	17900	=	35]950-00

fcØh@ : i ; 45@fd0xk0 = : 0 8]05]500-00] = 16]18]200-00

dy okf"kd ykHk

%fcØh & dy mRiknu eY; %

: i ; 8]05]500&5]00]000-00 =

3]05]500-00

mRiknu eY; & : 0 27-93 ;k : 0 28-00@fd0xk0

: 0 16]18]200-00&5]00]000-00

: 0 11]18]200-00

: 0 13-90 ;k : 0 14@fd0xk0



f'kVkd [kEc dh [krh

Hkkjr o"e djhc 300 [kku ;kX; QQn g rFkk l lkj e budh l [;k 2000 d yxHkx gA bue l djhc 80 QQnk dk l lkj d fd l h u fd l h n'k e i ;kfxd ;k 0;kikfjd Lrj ij mxk;k pdk gA bue l 4&5 QQnk dk vk |kfxd ieku ij mxk;k tk jgk gA [kEck e iFke LFkku cVu [kEc dk gA

yUVhU;yk bMkMI ¼f'kVkd½ tkiku dk ,d ykdfi; [kEc gA bld vykok bldk mRiknu phu] rkboku] nf{k.k dkfj;k ,o vefjdk e Hkh fd;k tkrk gA mRiknu dh nf"V l cVu [kEc d ckn f'kVkd dk nljk LFkku gA lu 1994 e f'kVkd dk dy mRiknu yxHkx 8]26]200 Vu gvk ft le 6]32]000 feOVu dk mRiknu doy phu e gh gvkA f'kVkd dk Lokn vkj l xU/k d dkj.k miHkkxrk bl fo"e : i l ilUn djr gA f'kVkd vk"kf/k;k cuku d dke Hkh vkrk g tk fd dlj rFkk ,MI t l h tkuyok chekfj;k d fy, vR;Ur mi;kxh fl) gb gA tkiku e yxHkx 700 fefy;u Mkyj dh nokb;k ifro"e fofHkuu [kEck l r;kj dh tkrh g ftue f'kVkd dk egRoi.k ;kxnu gA idfr e f'kVkd pkM iÙkk oky iMk dh er ydMh ij ik;k tkrk gA bl [kEc dh [krh ydMh d VdMk ij Hkh dh tkrh gA ftu LFkkuk ij ydMh dh cgrk;r gkrh g ogk bldk mRiknu pkMh iÙk oky iMk d yVBk dk dkVdj mUg l [kkdj fd;k tkrk gA bldk mRiknu fd l h Hkh vkdkj d yVBk ij fd;k tk l drk g ijUr 9&10 l 0eh0 ekVkb ,o 15&20 o"e ijku iM d yVB vf/kd mi;Dr gkr gA Hkkjr t l i;kj.k tkx:d n'k e iMk dk dkVdj bld mRiknu gr bLreky djuk n'k fgr e ugh g vr% cjknk feyk l iklr cjkn dk bLreky dj df=e yVBk dk fuek.k fd;k tk l drk gA vk/kfud fof/k }kjk bl ydMh d cjkn ij mxkuk ykdfi; gk jgk gA

df=e yVBk ij mxku dh fof/k

df=e yVBk dk fuek.k dju gr Hk l k] cjknk ¼l [r ydMh tk PkkM iÙkk okyh gk½] xg dk pkdj] Vc] ikyhikikbyhu d Fky] Liku vkj Vx dh vko';drk gkrh gA

fof/k

- 1- ydMh dk cjknk y o mle l ydMh d ekV VdMk dk gVk nA cjkn dk 24 ?k.Vk d fy, ikuh e fhkxk nA ikuh dh ek=k 60&65 ifr'kr d chp e gkuh pkfg,A xhy cjkn dk evBh e ncku l ikuh dh dN gh cn Viduh pkfg,A
- 2- xg d pkdj dk 20 ifr'kr ¼l [kk Hkkj½ dh nj l feyk; o ikyhikikbyhu d cxk e Hkj nA Fkyk dk eg iryh jLIh l vPNh rjg l ck/k nA

शिटाके खुम्ब उत्पादन की अवस्थाएँ



माध्यम (बुरादा) का उपचार



कवक जाल फैलाव



कवकजाल युक्त बैग में बम्प का बनना



कलिकाओं का बनना



तुड़ाई योग्य परिपक्व शिटाके मशरूम

ikjfeHkd [kEc mRiknu

- 3- Hkj g, cxk dk thok.k jfgr dju d fy, 121⁰ IfYI; I rkieku ij ,d ?k.V d fy, vkVkdYo e j[kA
- 4- cxk d B.M gku d ckn mu dk ijkcxuh fdj.kk e 30 feuV d fy, yfeukjfllyk ;U= e j[kA
- 5- jkxk.kjfgr dju d ckn] bu Fkyk e 2&5 ifr'kr $\frac{1}{2}$ xhy cjkn d otu vulkj $\frac{1}{2}$ dh nj I chtkb dJA bu Fkyk dk FkkMk fgyk y rkfd cht ij cjkn e Qy tk;A
- 6- vc bu chftr Fkyk dk 22&24⁰ IfYI; I rkieku ij dod tky Qyu d fy, j[kA
- 7- tc bu Fkyk e dod tky i.k :i I Qy tk; $\frac{1}{40}$ I 80 fnu $\frac{1}{2}$ o jx Hkjk iMu ij cEi $\frac{1}{4}$ QQky $\frac{1}{2}$ iM rk bu Fkyk I ikyhFkhu dk dkV dj vyx dj n vkj Cykd dk B.M ikuh e 1 I 2 feuV rd mipkfjr dJA
- 8- mipkfjr Cykdk dk mRiknu d{k e Qyu d fy, j[k o fu;fer ikuh dk fNMdko dJA [kEc mRiknu d{k dk rkieku 25⁰ IfYI; I I de gkuk pkfg,A yxHkx 20&30 fnu ckn [kEc fudyu 'k: gk tk;xA
- 9- [kEc dk 3&4 fnu ckn ifjiDo gku ij M.Mh lfgr rkM yA bl rjg 30&40 fnu d vUrjky ij 3 I 4 ekI rd f'kVkd dk mRiknu fy;k tk ldrk gA
- 10- i.k mRiknu fØ;k dk Bh d rjg dju I bl [kEc dh tfod mRikndrk 40&60 ifr'kr iklr dh tk ldrh gA bl [kEc dk vkIkuh I I[kk;k tk ldrk gA vUrjk"Vh; cktkj e bl [kEc dk eY; cVu [kEc I pkj xuk T;knk iklr fd;k tk ldrk gA



fof'k"V [kɛck dh [krh

fo'o e db idkj d [kɛck dh [krh tk jgh gA fof'k"V [kɛc dkb fo'k"k [kɛc ugh g cfYd , l k [kɛc tk fd l h fo'k"k n'k e T; knk ykdfi ; u gk] og bl J.kh e vkr gA mnkgj.k d rkj ij Hkkjro"e 'or cVu [kɛc dk NkMdj] l Hkh [kɛc fof'k"V [kɛc dh J.kh e vkr gA

fof'k"V [kɛc ox e nfɛk ; k [kɛc ¼dyk l kbch bfmɔk] f'kVkd [kɛc ¼tk ikuh [kɛc ½] f<xjh [kɛc ¼vk ; LVj [kɛc ½] dupiMk [kɛc ¼Cyd b ; j [kɛc ½] xh"edkyhu 'or cVu [kɛc ¼vfɛkd rkieku ij mxu okyk [kɛc ½] ivky [kɛc ¼pkbuh t ; k iMh LVk [kɛc ½] 'khrdkyhu [kɛc ¼ɸyefyuk oY ; Vkb i ½ o Cyd ikiyj [kɛc ¼, xk l kbch , ft jV ½ vkfn vkr gA bue l dN ie [k fof'k"V [kɛck dh mɾiknu fof/k dk o.ku ; gk fn ; k tk jgk gA

v ½ dupiMk [kɛc dh [krh ¼Cyd b ; j [kɛc ½

; g , d le'khrk".k [kɛc g vkj fo'o dh puh tul ; k e lokfɛkd ykdfi ; gA Cyd bvj [kɛc dk oKkfud uke vɸfjdyfj ; k gA ; g vU ; [kɛck l dN fhkUu gkrh g D ; kfd ble xyQM rFkk ruk ugh ik ; tkr g vkj bldk vkdkj dku d leku gkrk gA ; g [kɛc [kku e xnnkj o fpeMk gkrk gA mɾiknu dh n"V l Cyd bvj [kɛc fo'o e pkFk LFkku ij vkrk gA Hkkjro"e bl [kɛc dk mÜkj&iöh igkMh {k=k e txyk l , d= dj d [kk ; k tkrk gA bl [kɛc dh [krh fo'o d db n'kk e ydMh d yVBk ij dh tkrh gA Hkkjro"e bldh [krh ydMh d cjkn ij ; k xg ; k /kku d Hk l ij dh tkrh gA bl 90 ifr'kr l Hkh vfɛkd vknrk gku ij Hkh vki kuh l mxk ; k tk l drk gA

mxku dk rjhd

bl [kɛc dh [krh d fy, rktk] l [kk] QQn vkfn chekfj ; k l jfgr] cj lkr d ikuh l eDr èkku ; k xg dk Hk l k fy ; k tkrk gA Hk l dk 16&18 ?k.V rd ikuh e fhkxk ; k tkrk gA bld ckn ml iDd Q'k ij Qyk fn ; k tkrk g rkfd vfrfjDr ikuh cg tk, A vc 5 ifr'kr dh nj l ¼xhy Hk l d otu vulkj ½ pkdj xhy Hk l e feyk ; k tkrk gA pkdj dk xhy Hk l e vPNh rjg feyku d ckn] bl nk fdyxxke ifr ikyhiki kbyhu Fkyh d fg l k l Hkj fn ; k tkrk g vkj Fkyh dk eg l ryh l vPNh rjg ckèk fn ; k tkrk gA vc bu Fky ; k dk 15 ik.M ncko ij 1&2 ?k.V rd vkVkdYo e'khu ; k cM i'kj ddj e j [k dj jkxk.keDr djr gA Fky ; k dk vkVkdYo e'khu l ckgj fudkyk tkrk g rFkk B.Mk gku ij bue 2 ifr'kr ¼xhy Hk l d otu vulkj ½ dh nj l Liku feyk ; k tkrk gA 2 ifr'kr d fg l k l iR ; d nk fdyxxke dh Fkyh e 40 xke Liku iMxkA Liku feyku d ckn Fky ; k dk eg j cM cM ; k l ryh }kj k cUn dj fn ; k tkrk gA vc bu Fky ; k dk cht d Qyko d fy, dej e j [k fn ; k tkrk g vkj 25&28° lfy l ; l rkieku cuk ; j [kk tkrk gA cht Qyko d nkju jk'kuh o gok vkfn dh dkb vko' ; drk ugh gkrhA cht dk Qyko 25&30 fnuk e gk tkrk gA tc dod tky i.k : i l Qy tk, rk bu Fky ; k e phj yxkdj bu g l ryh l ckèk dj yVdk fn ; k tkrk g ; k 'kYQk ij yxHkx 8 l oeh0

dh njh ij j[k fn;k tkrk gA dej dk rkieku 25&28⁰ lfyI;I cuk; j[kk tkrk gA Fkfy;k ij fnu e 1&2 ckj ikuh dk fNMdko Hkh fd;k tkrk g rkfd 85&90 ifr'kr ueh cukb j[kh tk l dA

Qly icUèku

dod tky chtkb d 25&30 fnuk e Qy tkrk gA bl d ckn 12&15 fnuk e NkVh&2 [kEc dfydk, cuu yxrh g tk vxy 4&5 fnuk e ifjiDo [kEc e cny tkrh gA dod tky Qyko d ckn l ifrfnu Fkyk ij ikuh dk fNMdko fd;k tkrk g rFkk ,d ?k.V d fy, idk'k o gok nh tkrh gA tc [kEc d fdukj Åij dh vkj eMu yxr g rk [kEc rkMu ;kX; gk tkr gA bl [kEc dh mit 3&4 pØk e yxHkx 50 fnuk rd feyrh jgrh gA 3&4 pØk e ifr fdykxke l [kk Hk l k e l 800&1200 xke rktk [kEc ink gk tkr gA bl [kEc dk ;k rk rktk cp l dr g ;k fQj bl èki e l [kk;k Hkh tk l drk gA 2&3 fnuk e [kEc èki e l [k tkr gA l [ku ij bUg ikyhFkhu dh Fkfy;k e lhy cUn dj d j[k l dr gA bl rjg bUg vxy 8&12 eghu rd l jf{kr j[kk tk l drk gA

c% 'khrdkyhu %¶yeyhuk% [kEc dh [krh

¶yeyhuk oY;Vkbi [kEc dk 'khrdkyhu [kEc d : i e tkuk tkrk gA mRiknu dh nf"V l ;g [kEc fo'o e uEcj ikp ij vkrk gA ;g [kEc n[ku e l Qn gkrk g vkj xPNk e mxrk gA bl [kEc dk vdkj 10&12 lOeh0 yEck gkrk g vj Vkih NkVh l h gkrh gA tc ;g [kEc xPNk e mxrk g rk ;g ujfx l d Qyk dh rjg irhr gkrk gA bl [kEc dh [krh ydMh d cjkn ij dh tkrh gA

mxku: dk rjhdK

bl [kEc dh [krh dju d fy, ydMh dk cjknk] tk pkM iRrk okyh l [r ydMh dk gk] fy;k tkrk gA bl cjkn e l ydMh d ekV VdMk dk fudky fn;k tkrk gA vc cjkn dk yxHkx 20&24 ?k.Vk d fy, ikuh e fHkxk fn;k tkrk gA xhyk gku ij cjkn e ikuh dh ek=k 60&65 ifr'kr gkuh pkfg,A bl cjkn e ikuh dh ek=k dk irk xhy cjkn dk eVBh e nck dj yxk l dr gA vxj cjkn d yMM l cu tk, vkj ikuh dh ,d&nk cn gh Vid] rk ikuh dh ek=k Bh d le>h tkuh pkfg,A vc xhy cjkn e xg dk pkdj 5 ifr'kr ¼ l [kk Hkkj½ dh nj l feykdj o 2 fdykxke ifr ikyhikikbyhu dh Fkfy;k e Hkj nA Fkyk dk eg] iryh jLIh l vPNh rjg cUn dj nA vc bu Fkfy;k dk dhVh.k eDr dju d fy, 15 ik.M ncko ij 1&1-5 ?k.V rd vkVdYyo e'khu e j[kA B.Mk gku ij Fkfy;k dk vkVdYyo e'khu l fudky nA vc ;k rk bUgh Fkfy;k e cht feyk l dr g ;k fQj bu Fkfy;k dk cjknk 'kh'k d tkj e] yfeukj ¶yk pEcj e myV nA cht ¼Liku½ feyku d fy, Fkfy;k ;k 'kh'k d tkjk dk ijkcuxh fdj.kk e 30 feuV rd yfeukj ¶yk pEcj e j[kA jkxk.kjfr dju ij bu Fkfy;k ;k 'kh'k d tkjk e 2 ifr'kr ¼xhy cjkn d otu vulkj½ dh nj l chtkb djA bu Fkyk dk FkkMk fgyk n rkfd cht ij cjkn e Qy tk,A Fkfy;k dk eg ekM dj cUn dj n o 'kh'k d tkjk dk ikyhFkhu dh pknj l <d nA vc bu chftr Fkyk ;k tkjk dk 24&25⁰ lfyI;I rkieku ij dod tky Qyu d fy, dejk e] 'KYQk d Åij j[k nA dod tky Qyko d nkju 1&2 fnu e Q'k dk ikuh l xhyk dj n o gYdk l k fNMdko 'kh'k d tkjk ij ;k Fkfy;k ij Hkh dj nA dod tky Qyko d nkju gok o idk'k vkfn dh vko';drk ugh gkrhA Fkyk e dod tky yxHkx 30&35 fnu e i.k : i l Qy tkrk gA tc dod tky i.k : i l Qy tk, rk Fkfy;k dk eg [kky nA ;fn 'kh'k d tkj i;kx fd, gk rk ikyhFkhu dh pknj gVh nA fnu

ब्लैक पापुलर खुम्ब उत्पादन



कवक जाल फैलाव



कलिकाओं का बनना



विकसित खुम्ब कलिकाएं



परिपक्व पापुलर खुम्ब

अन्य विशिष्ट खुम्बें



ब्लैक इयर खुम्ब



शीतकालीन (फलेमुलीना) खुम्ब

ikjfeHkd [kEc mRiknu

e ,d ckj ikuh dk fNMdko Fkfy;k o Q'k ij dJA 1&2 ?k.V d fy, idk'k Hkh inku dj rFkk rkieku dk 14&15^o IfyI;I ij yk,A 14&15 fnuk ckn NKV&NKV [kEc cuuk 'k: gk tk, rk rkieku 4&6^o IfyI;I rd fxjk nA vxy 4&5 fnuk e [kEc d xPN ujfxI d Qyk dh rjg c< dj rkMu d fy, r;kj gk tkr gA bl [kEc dk I[kk Hkh ldr gA 50&60 fnuk rd ;g [kEc 2&3 ckj xPNk e fudyr jgr g vkj 1 fdyxke I[k ckjn I yxHkx 400&450 xke [kEc fudy tkrh gA

I½ Cyd ikiyj [kEc dh [krh ¼,xkIkbch , thjVrk½

,xkIkbch , thjVrk dk Cyd ikiyj [kEc I Hkh tkuk tkrk gA bl [kEc dk ydMh d yVBk ;k ydMh d ckjn ;k xg d HkI ij mxk ldr gA bl [kEc dk ruk yEck&iryk o Vkih NKVh o Nrjhuek gkrh gA bl dk jx gYdk Hkjk gkrk gA

mxku dk rjhdk

bl [kEc dk mxku dk rjhdk Hkh mijkDr [kEck t l k gh gA bl mxku d fy, xg dk HkI k ;k pKM iRr okyh I[r ydMh dk cjkfk fy;k tkrk gA HkI k QQn vkfn chekfj;k I jfgr rFkk cjlkr d ikuh e u Hkhxk gkA HkI dk 16&18 ?k.V ;k ckjn dk 20&24 ?k.V rd ikuh e fhkxk;k tkrk gA rRi'pkr HkI dk iDd Q'k ij Qyk fn;k tkrk g rkfd vfrfjDr ikuh cg tk,A vxj ydMh dk cjkfk i;kx e yk;k tk jgk gk rk ble 60&65 ifr'kr rd ikuh gkuk pkfg,A vc xhy HkI ;k ckjn e 10 ifr'kr dh nj I xg dk pkdj ¼xhy HkI d otu vulkj½ feyk,A nk&nk fdyxke xhyk HkI k ;k cjkfk ikyhikikbyhu dh Fkfy;k e Hkj nA bu Fkfy;k dk eg iryh jLIh ¼Iryh½ I vPNh rjg cUn dj nA vc bu Fkfy;k dk ¼15 ik.M ncko½ 121^o IfyI;I rkieku ij 1&1-5 ?k.V d fy, vkVkdYo e'khu e Mky n rkfd ;g jkxk.keDr gk tk;A B.Mk gku ij bu Fkfy;k dk vkVkdYo I ckgj fudky rFkk bue 2 ifr'kr ¼xhy HkI d otu vulkj½ dh nj I chtkb dj nA cht Mkyu d ckn Fkfy;k dk vPNh rjg fgyk n rkfd cht I k j HkI ;k ckjn e Qy tk, o Fkfy;k dk eg ekM dj ;k Iryh I cUn dj nA vc bu Fkfy;k dk 25&28^o IfyI;I rkieku ij dej e 'kYQk d Åij j[k nA 25&30 fnuk e dod tky ij HkI e Qy tk,xkA tc dod tky ijk Qy tk, rk bu Fkyk I iryh&iryh ifVV;k dkV dj ¼phj yxkdj½ ,d nlj I 10&12 lOeh0 dh njh ij j[k nA dej e rkieku 25&28^o IfyI;I rFkk 85&90 ifr'kr ueh cuk, j[kA Fkfy;k ij 1&2 ckj ikuh dk fNMdko dJr jgA vxy 5&7 fnuk e [kEc fudkyuk 'k: gk tk,xh tk vxy 2&3 fnuk e rkMu d fy, ifjiDo gk tkrh gA 45&50 fnuk e iR;d Fky I 300&350 xke [kEc] 2&3 Qly pØk e fudyrh gA bl [kEc dk rktk Hkh i;kx dj ldr g ;k èki e I[kk Hkh ldr gA



ivky [kɛc ¼okYofj, yk½ dh [krh

bl e'k:e dk ijk ;k ivky ;k ijkyh e'k:e d uke l tkuk tkrk gA ivky e'k:e dh [krh e[; r% ,f'k;k egk}hi d nf{k.kh ,o io h n'kk t l phu] FkkbyM vkj fQyhfiU l e dh tkrh gA Hkkjro"e bldh [krh yxHkx o"k io 'k: dh xb Fkh yfdu 'or cVu e'k:e d leku cM Lrj ij bl e'k:e dh [krh dh 'k: vkr vHkh rd ugh gk ik;h gA bldk e[; dkj.k bldh fuEu mRikndrk d vykok bl e'k:e d ckj e i;klr Kku dk vHkko gA gekj n'k e bldh [krh d fy; o"k e ,d ckj n'kk; vudy gkrh gA ivky e'k:e dk rVh; bykdk e l ky Hkj o enkuh Hkkxk e o"kk _r ,o igkMh Hkkx e xh'e _r e mxk;k tk ldrk gA

ivky e'k:e dh ckg; ljpuk 'or cVu e'k:e l FkkMh fHkUu gkrh gA bl e'k:e d ru d vk/kkj ij ,d Vkihuek vkoj.k gkrk g tk ikjɛHkd voLFkk e ij N=d dk <d jgrk g] ckn e N=d bl l fudy dj ckgj vk tkrk g] bl ljpuk dk okYok dgr gA bldh vU; ljpuk; 'or cVu e'k:e l feyrh&tyrh gkrh g ijr ivky e'k:e d ru d Åijh Hkkx ij cVu e'k:e dh rjg fjx ;k oy; ugh gkrkA bld N=d dk jx /klj ;k eVeyk lQn gkrk g vkj ;g vdkj e cVu e'k:e l dkQh cMk gkrk gA

Hkkjr e bl e'k:e dh 19 tkfr;k ik;h tkrh g vkj bue l rhu tkfr;k okYofj;yk fMlyfl;k] okYofj;yk okYofl;k ,o okYofj;yk ,LD;yUVk dk e[; :i e mxk;k tk tkrk gA n'k d dy e'k:e mRiknu e bl e'k:e dk ;kxnu 8-5 ifr'kr gA bl n'k d db ikrk t l&mMh l k] if'pe cxky] vkU/kk in'k] NfÜk l x<] rfeyukM o djy e lQyrkiod mxk;k tk jgk gA bl e'k:e dk mxku d fy; vfêd rkieku dh vko';drk gkrh gA lkekU;r% bldh [krh d fy, 30 l 35° l fYl;l rkieku ,o 75&85 ifr'kr vknrk ¼ueh½ dh vko';drk gkrh gA bl e'k:e dk mxku dh foLrr tkudkjh fuEufyf[kr gA

[krh dju dk rjhdk

ivky e'k:e dk fofHkUu ek/;ek ij mxk;k tk ldrk g t l dik l m|kx dk cpk gvk vo'k"k] xUu dh [kkb] dy d FkEc ,o iÜk] tydEHkh ,o /kku dk ivkyA bu l Hkh ek/;ek e l /kku dh ivky ij bldh [krh Hkkjr e vf/kd ipfyr gA ivky e'k:e dh [krh dju dh db fof/k;k ipfyr g t l iku rjhd d pkj ijr okyh 'k,;k ij [krh djuk] <kpk fof/k ¼d t½ o vk/kfud Hkhrjh fof/kA bu fof/k;k dk o.ku bl idkj gA

v½ 'k,;k fofèk

'k,;k fofèk l ijkyh e'k:e mxku dk rjhdK fuEufyf[kr gA

¼d½ l [k o rkt ivky d 25 l0eh0 ekV rFkk 120 l0eh0 yEc vkdkj d 1 fdyxke otu d cMyk dk 24&36 ?k.V rd ikuh e fhkxkukA fhkxk; x; cMyk dk ckl l cuh 'k,;k ;k fleUVh< Lrg ij j[kuk rkfd t :jr l T;knk ikuh ckgj fudy l dA

¼[k½ tehu dh lrg l ,d QV Åij ckl dh 'k,;k cukdj] gYd l l [kk; x; cMyk dk pkj rgk e 8 cMy ifr rg d fgk c l pkj&pkj cMy ,d nlj d foijhr fn'kk e j[kdj] i; kx fd; x; l [k ivky d Hkkj d 1-5 ifr'kr dh nj l Liku o 200 xke clu dk bu cMyk dh lrg e ckgj l 10&15 l0eh0 vUnj dh vkj feykukA

¼x½ cht feyku d mijkuR cMyk dh 'k,;k dk gYdk nckdj ikyhFkhu 'khV l <duka

¼?k½ 8&10 fnuk e cht ¼Liku½ ij ik'kkèkkj e Qy tkrk g mld ckn ikyhFkhu 'khV dk gVk fn; k tkrk gA

¼M½ ikyhFkhu 'khV d gVku d 3&4 fnu i'pkr] 'k,;k l e'k:e dh dfydk; ¼fiu gMI ½ fn[kkb nu yxrh g tk 1&2 fnu ckn c<dj vM dk vkdkj y yrh g rFkk blh voLFkk e budh rMkb djuh gkrh gA

c½ ckgjh fofèk

bl fofèk e ivky e'k:e iMk dh Nk;k e mxkb tkrh g rFkk ivky d 45 l-eh- yEc o 15 l-eh- ekV cMyk dk i; kx e yk; k tkrk gA bl fof/k }kjk ivky e'k:e mxku dk rjhdK fuEufyf[kr gA

¼d½ loiFke ivky d cMyk dk tM oky flj dh rjQ l uhp dk yxHkx ,d bp Hkkx dkV fn; k tkrk gA

¼[k½ fQj cMyk dk iUkk oky flj dh rjQ l dkV fn; k tkrk g rkfd cMyk dh yEckb yxHkx 45 l-eh- jgA

¼x½ dV g, cMyk dk 16&18 ?k.Vk d fy, 2% dfY'k;e dkckuV d /kky e Mck dj j[kk tkrk gA

¼?k½ ikuh e Mc g; cMyk dk ckgj fudkydj fd l h l kQ&lFkjh txg ij j[kk tkrk g vkj dN le; rd l [kku fn; k tkrk g rkfd mue 60&65% ueh jg l dA

¼M½ bl d ckn nk ckl d [kEck dk ,d QV d vUrj ij bVVk ij j[kk tkrk g rFkk ,d flj d 'k: e rhu cMy [kydj mUg 45&60 l-eh- rd fcNk; k tkrk gA fQj bl lrg ij 6&8 txg [kEc dk cht Mkyk tkrk g rFkk ml nky d ikÅMj l <d fn; k tkrk gA

¼p½ blh rjg l rhu cMyk dh nljh o rhljh rg yxkb tkrh g rFkk gj rg ij cht o nky dk ikÅMj Mkyk tkrk gA nljh rg igyh rg l 90° fMxh d dk.k ij rFkk rhljh rg nljh rg d 90° fMxh d dk.k ij r; kj dh tkrh gA

$\frac{1}{4}N\frac{1}{2}$ lcl mij ,d cMy d [kky fn;k tkrk gA bl rjg ckfd nIj cM Hkh ,d nIj l 1 fQV d vUvj ij r;kj fd; tkr gA rFkk lHkh dk lykfLVd dh pknj l <d fn;k tkrk gA

$\frac{1}{4}t\frac{1}{2}$ vxj ckgj rkieku 30° l- l mij gkrk g rk cMk e cht yxHkx 6&8 fnu e Qy tkrk g rFkk bld ckn lykfLVd dh pknj dk gVkdj ikuh dk fNMdko fd;k tkrk gA

$\frac{1}{4}>\frac{1}{2}$ bld 4&6 fnu ckn e'k:e rkMu yk;d gk tkr g rFkk vxy 10&12 fnu rd bu cMk l e'k:e fudyr jgr gA

$l\frac{1}{2}$ <kpk $\frac{1}{4}d\frac{1}{2}t\frac{1}{2}$ fofèk

bl fofèk e ydMh l cu pkjk vkj l [ky vk;rkdj nkgj pk[kV $\frac{1}{4}1$ eh0 yEck] 0-5 eh0 Åpk] 0-25 eh0 pkMk $\frac{1}{2}$ dk i;kx fd;k tkrk gA bl fofèk l e'k:e mxku dk rjhdk fuEufyf[kr gA

$\frac{1}{4}d\frac{1}{2}$ loiFke ydMh d <kp o ikyhFkhu 'khV dk 4 ifr'kr Qkeyhu d ?kky l mipkfjr dj fut hohdj.k djukA

$\frac{1}{4}[k\frac{1}{2}$ 30 l0eh0 yEc ,o 10 l0eh0 ekVkb d ivky d cMyk dk xe ikuh e 20&30 feuV rd mckyuk ;k igy l xhy fd; cMyk dk 60&65° lfy l;l rkieku ij ikLpjhdj.k djukA

$\frac{1}{4}x\frac{1}{2}$ <kp e 10 cMyk dh igyh rg yxkuk rFkk cMyk d eè; e ckgjh fdukj l FkkMk vny dh vkj Liku $\frac{1}{4}1-5$ ifr'kr dh nj l $\frac{1}{2}$ feykuk rFkk bld Åij blh rjg nIjh rg yxkuk o ch t kb djukA bl rjg l dy 6 rg yxkukA

$\frac{1}{4}?k\frac{1}{2}$ lHkh rg yxku d ckn 0-1 ifr'kr eykfFk;ku o 0-2 ifr'kr MkbFku tM&78 dhVuk'kdk d ?kky dk fNMdko dj <kp dk ijh rjg l ikyhFkhu 'khV l <dukA

bl rjg l ch t kb fd; g, $\frac{1}{4}$ Liku feyk; g; $\frac{1}{2}$ <kp dk mi;Dr rkieku $\frac{1}{4}30&35^{\circ}$ lfy l;l $\frac{1}{2}$ ij j[ku l 8&10 fnuk e ch t Qy tkrk g tk #b t lk fn[kkb nrk gA vU; lHkh icèku fØ;k, 'k,;k fofèk t l h gh dh tkrh gA

$l\frac{1}{2}$ vkèkfud Hkhrjh fofèk

bl fofèk l e'k:e dh lcl vfèd $\frac{1}{4}30&35$ ifr'kr tfod {ker $\frac{1}{2}$ inkokj iklr gkrh gA bl fofèk e e'k:e dh Qly] èkku dh ijkyh o dikl m|kx d vo'k"l l r;kj dh xb dEikLV ij mxkb tkrh gA 0;olkf;d :i e ivky e'k:e blh fofèk l mxkb tkrh g rFkk ;g fofèk nf{k.k io d db n'kk t l&phu] FkkbyM] gkxdkx] flxkij] bMkuf'k;k ,o fo;ruke e e'kgj gA bl fofèk l e'k:e mxku dk rjhdk fuEufyf[kr gA

$\frac{1}{4}d\frac{1}{2}$ lcl igy dikl m|kx d vo'k"l ;k èkku dh ivky dk 2 fnuk rd vPNh rjg ikuh l xhyk dj mle 1-0 ifr'kr dh nj l dfy'k;e dkckuV dk feykuk rFkk 1-5 ehVj pkMk o 1-5 ehVj Åpk <j cukukA

ikjfeHkd [kEc mRiknu

- $\frac{1}{4}[k\frac{1}{2}$ vxy nk fnu <j dk rkMuk vkj cukuk gkrk g vkj vxj t : jr yx rk ikuh Hkh feykuk gkrk gA
- $\frac{1}{4}x\frac{1}{2}$ rhI j fnu <j e dfYI ; e dkjckuV dk 1-5 ifr'kr $\frac{1}{4}I[k$ Hkkj d fgIkc I $\frac{1}{2}$ dh nj I feykuk gkrk g rFkk fQj <j r ; kkj djuk gkrk gA
- $\frac{1}{4}?k\frac{1}{2}$ <j d pkFk fnu vPN I feyk dj [kkn d dej e ykg ; k ckI dh cuh 'k_; ; k ij 12&15 I-eh- dh ekVkb rd fcNk ; k tkrk g rFkk dej dk cUn dj vxy fnu rd dN ugh fd ; k tkrk gA
- $\frac{1}{4}M\frac{1}{2}$ bld ckn rkieku dk c<kdj 65&70⁰ IfYI ; I rd y tkuk rFkk bl 6&8 ?k.V d fy ; cuk ; j[kuk gkrk gA ; g Ic Hkki }kjk fd ; k tkrk gA
- $\frac{1}{4}p\frac{1}{2}$ bld i'pkr] rkieku dk ?kVkdj 48&52⁰ IfYI ; I rd y vkuk rFkk bl rkieku dk vxy 2&3 fnuk rd cuk ; j[kuk rkfd vekfu ; k dEikLV I ijh rjg fudy tk ; A
- $\frac{1}{4}N\frac{1}{2}$ dEikLV dk rkieku yxHkx 35⁰ IfYI ; I vku d ckn mle 2-0 ifr'kr d fgIkc I cht $\frac{1}{4}Liku\frac{1}{2}$ feykuk rFkk cht fey g, dEikLV dh ckI ; k ykg I cuh g, cgLrjh ; <kpk ij 15 I 20 I0eh0 ekVh ijr fcNkukA bl nkjku 6&8 fnu rd 32&35⁰ IfYI ; I rkieku cuk ; j[kukA bl rkieku ij cht ij dEikLV e Qy tkrk gA
- $\frac{1}{4}t\frac{1}{2}$ dod tky Qyu d ckn] mRiknu d{k dk rkieku 28&32⁰ IfYI ; I ij y vkuk o fnu e 5 feuV rd 5&7 ckj rkth gok nuh pkfg, rFkk dej e 75&85 ifr'kr ueh vkj jk'kuh dk icUèk Hkh t : jh gA bl okrkj.k e dfydk, $\frac{1}{4}fiu$ gMI $\frac{1}{2}$ cuuk 'k : gk tkrh gA
- $\frac{1}{4}>\frac{1}{2}$, Ik okrkj.k cuk ; j[ku ij vxy 5 fnuk e e'k : e rkMu yk ; d gk tkrh gA bl rjg I vxy 20 fnuk rd e'k : e fudyrh jgrh gA

Qly icUèku

- $\frac{1}{4}d\frac{1}{2}$ Qly mRiknu gr ivky d cMyk ; k dEikLV e 65 ifr'kr ueh cuh jgA
- $\frac{1}{4}[k\frac{1}{2}$ Qly mRiknu d{k e vknrk 75&85 ifr'kr j[kuh mÙke gkrh gA 'k_; ; k ij I hè ikuh dk fNMdko de I de dj rFkk vknrk cuk ; j[ku d fy ; dej dh Q'k] fnokjk o Nr ij ikuh dk fNMdko dJA
- $\frac{1}{4}x\frac{1}{2}$ Qly mRiknu d le ; d{k dk rkieku 28&32⁰ IfYI ; I gkuk pkfg, A
- $\frac{1}{4}?k\frac{1}{2}$ vU ; vokfNr QQnk dk idki gku ij 0-1 ifr'kr ckfoLVhu o dhMk I cpko gr 0-2 ifr'kr U ; oku ?kky dk gok e fNMdko dJA nok dk i ; kx ge'kk Qly rkMu I nk fnu igy dJA

e'k : e rMkb] mi t] Hk.Mkj.k o mi ; kx

ivky e'k : e dh 'k_; ; k I rMkb vMdkj voLFkk e gh djuh gkrh g vkj e'k : e dh rMkb fo'k'k rkj ij vxfy ; k d lgkj ?kedj djuk gh cgrj gkrk g D ; kfd bl I nljh uotkr dfydk ; [kjc gku I

पुआल मशरूम की खेती



पुआल के बंडलों का रासायनिक उपचार



बंडलों में मशरूम स्पॉन की बीजाई



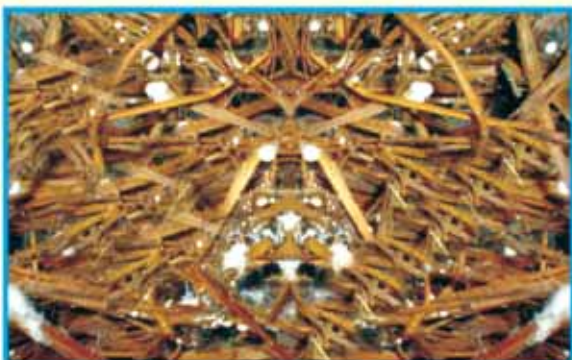
बंडलों को पॉलिथीन सीट से ढकना



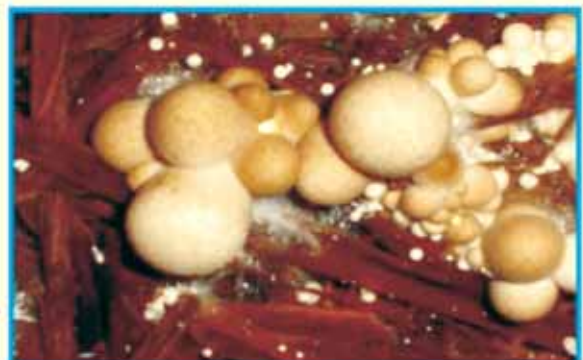
कवक जाल पफैलाव उपरांत सीट हटाना



बंडलों में कवक जाल पफैलाव



पराली मशरूम कलिकाओं का बनना



परिपक्व पराली मशरूम

ikjfeHkd [kec mRiknu

cp tkrh gA 'k,;k fofèk l yxHkx 30&32 fdyxke l [k ivky l 4-0 l 5-0 fdyxke rktk e'k:e iklr gkrh gA

e'k:e dk rkMdj fNn;Dr icyhikikbyhu dh Fkyh e 200 xke ifr Fkyh d fgIkc l id fd;k tkrk gA bl e'k:e dh Hk.Mkj.k vofèk de gkrh gA bl h dkj.k l bl 8&10 ?k.V d vUnj cp nuk Bhd gkrk g rFkk bldh x.koUkk cuk; j[ku d fy; rMkb o ifdx mijkUr bl l 15^o lfy l;l rkieku ij j[kuk T;knk mfpr gkrk gA

bl e'k:e dk rMkb d mijkUr tYnh l tYnh i;kx djuk gh mfpr gkrk g D;kfd le; d l kFk bldh x.koUkk e fxjkoV vkrh gA ;g e'k:e viu fo'k" Lokn o [k'c d fy, if'k) g rFkk blfy; bl nljh e'k:e l cgrj gh vkdk tkrk gA

vkenuh

cktj e bl e'k:e dk Hkko Hkh vU; e'k:e dh rjg gh #i; 70 l 100 d chp e jgrk gA ifr fdyxke ivky e'k:e ink dju dh ykxr #- 25&30@& vkrh gA ifr fdyxke e'k:e mRiknu l #i; 45 l 60 rd dh vkenuh dh tk ldrh gA



[kEc dh chekfj ;k o mudk iɔU/ku

vU; QLkyk dh rjg [kEc e Hkh db idkj dh chekfj ;k yxrh gA [kEc e chekfj ;k dh lEHkkouk vkj Hkh vf/kd gkrh g D;kfd mUg fo'k" ek/;e ij dejk e mxk;k tkrk g rFkk bue yxHkx 90 ifr'kr ikuh gkrk gA jkxk }kjg gu okyk ud lku bl ckr ij fuHkj djrk g fd jkx fd l voLFkk e yx jgk g o fdruk lØked gA fofHku idkj d jkx ,oe fodkj tk [kEc e ik; n[k x; g e[;r nk idkj d gkr gA

v½ tɔd

tk jkx thfor ikf.k;k d dkj.k gkr g] bl J.kh e 'kkfey fd, x; gA ; e[;r rhu idkj d gkr g A

- 1- dod ¼QQn½ tfur jkx
- 2- thok.k tfur jkx
- 3- fo"kk.k tfur jkx

c½ v tɔd

tk jkx fut ho dkj.kk l ink gkr g] bl J.kh e vkr gA y?k fd lku d e'k:e Qke ij bu jkxk dk ik; n[kk tk ldrk g A ; fuEufyf[kr dkj.kk l mRiUu gk ldr g A

- 1- rkieku
- 2- dkcu Mkbvkd l kbM
- 3- ok;
- 4- ty ,oe ueh
- 5- jlk;u inkFk ,oe /kvk

fuEufyf[kr rkfydk e dod] thok.k ,oe fo"kk.k tfur jkxk d uke] y{k.k ,oe jkdFkke d mik; crk; x; gA [kEc d fy, fd l h Hkh jlk;fud inkFk dk yoy dye ugh gA ijUr budk mi;kx nhokjk] Q'k vkfn ij fd;k tk ldrk gA [kEc e mipkj l cgrj cpko gA

rkfydk & [kEc d fofHkUu jkx ,o mipkj

¼v½ dod tfur jkx

chekjh dk uke	y{k.k	jkdfkE
1- Hkj yi ¼ckmu lykLVj½	chft r dEikLV e ;k dflx ijr ij vkv dh rjg lQn xky ?kj fn[kkb nr g tk ckn e Hkj gk tkr gA	1- lkQ&lQkb dk /;ku j[kA 2- dEikLV e i ;klr ek=k e ftlle feykuk pkfg, o vf/kd ek=k e ikuh u MkyA 3- ihd ghfVx l igy o ckn e dEikLV T;knk xhyk u gkA 4- jkxxflr Hkxk dk gVkdj ml Hkx ij 2 ifr'kr Qkeyhu ;k 0-05 ifr'kr ckfolVhu ?kky dk fNMdko djA
2- lQn yi ¼gkbV lykLVj½	dflx feVh ij vkv dh rjg lQn QQn fn[kkb nrh g tk vr rd lQn gh cuh jgrh gA	ckfolVhu 0-05 ifr'kr ;k Fkkbje 0-08 ifr'kr ?kky dk fNMdko 10 fnu d vrj ij djA
3- ihyh QQn ¼;yk ekYM½	1½ ihyh&Hkj QQn dh ijr tk fdujuk ij lQn rFkk mHkj gb gkrh gA 2½ dEikLV o dflx feVh d chp e ihyk&Hkj LVkek ik;k tkrk gA 3- dfY'k;e gkbikDykjbV 0-15 ifr'kr ?kky dk fNMdko djA	1- dEikLV dk ikLpjhdj.k lgh <x l dj A 2- mRiknu d{k e o ml d vk l & ik l lQkb j[kA
4- fyfifLVd QQn	ikjEHk e lQn jonkj QQn d leku fn[kkb nrk g tk ckn e xgjk yky gk tkrk gA	1- dEikLV dk ikLpjhdj.k lgh <x l djA 2- mRiknu d{k e lQkb j[kA 3- dEikLV e 68&70 ifr'kr ueh cuk; j[k A
5- gjh QQn ¼xhu ekYM½	1½ dEikLV o dflx feVh ij NKV&NKV gj /kCc fn[kkb nr g ;g dHkh&dHkh [kEc ij Hkh mRiUuk gkr g A 2½ [kEc Hkj gk tkrk g o ml ij gjh QQn mxu yxrh g A	1- lgh <x l ikLpjhdj.k dj o lQkb dk /;ku j[k 2- ej [kEc dk fudky dj Qd nA 3- ckfolVhu 0-5 ifr'kr ?kky dk fNMdko dj A
6- vkHkk l h VQy ¼QkY l VQy½	dEikLV ;k dflx feVh ij lQn nkunkj xPN fn[kkb nr gA ikjfeHkd voLFk e ; [kEc dfydvk ¼NKV [kEc½ d leku yxr g iju ckn e ; gYd Hkj gk tkr gA	1- mRiknu d{k e rUr Qyko o Qyu d nkjku Øe'k 25 fMxh o 20 fMxh lfy l ; l l vf/kd rkieku u gku nA

chekjh dk uke	y{k.k	jdkFkke
7- tkyh jkx ¼dkc oo½	dflx feVvh dh lrg ij lQn &lyVh QQn ik;h tkrh g tk ckn e yky gk tkrh g vkj [kEc dk pkjk vkj l <d nrk gA	1- mRiknu d{k e ueh de dj A 2- MkbFku ,e&45 dk 0-2 ifr'kr ?kky ;k ijkDykjk&ukbVk cUthu 20 ifr'kr ;k dfY'k;e gkbikDykjkbV dk 70 ifr'kr ?kky jkx&xLr fgLlk ij yxk; A
8- l [kk cycyk ¼Mkb ccy½	1½ [kEc dh Vkih ij NkV&NkV Hkj /kCc fn[kkb nr g A ckn e db /kCc feydj cM Hkj /kCck e cny tkr g A 2½ ruk chp l QVu yxrk g A 3½ Vkih dh vkdfr fcxM dj ,d vkj >d tkrh g A	1- lQkb dk /;ku j[k A 2- MkbFku ,e&45 dk 0-2 ifr'kr ;k ckfoLVhu 0-05 ifr'kr ?kky dk fNMdco djA
9- xhyk cycyk ¼oV ccy½	1½ [kEc fodr utj vkr g A 2½ ruk Qy tkrk g A 3½ [kEc lMu yxrk g ft l ij bl jkx dk dod mxu yxrk g rFkk lM [kEc l Hkj n0; fudyu yxrk g A	1- lQkb dk /;ku j[k A 2- dflx d rjUr ckn 0-1 ifr'kr ckfoLVhu ;k Likjxku dk fNMdco dj A 3- [kEc d efD[k;k dk fu;U=.k djA
¼c½ thok.k tfur jkx		
1- Hkj nkx ¼cfDVfj;y Cykp½	1½ [kEc dh Vffi;k o ruk ij NkV&NkV Hkj /kCc utj vkr g tk ckn e vdkj e c< tkr gA 2½ [kEc dh Vkih fpifpih ,o [kEc dfydk Hkj gk tkrh g mudh of) :d tkrh g A	1- cxk e ueh mfpr j[k] vf/kd u gku n A 2- jkx&xLRk [kEck dk fudky dj Dykjh ikuh ¼CyhfpX ikmMj 0-05 ifr'kr½ dk fNMdco dj o dejk d njokt de l de ,d ?kV d fy, [kky nA
2- ftUtj Cykp	bl jkx d y{k.k Hkj nkx jkx d leku gh g vrj doy bruk g fd ble vnjd d jx d 1&2 fe0fe0 xgj /kCc fn[kkb nr g ftudk jx ckn rd ugh cnyrk g A	bl jkx dh jdkFkke Hkj nkx jkx d leku dh tkrh g A

¼l½ fo"kk.k tfur jkx

fo"kk.k tfur jkx yxu ij [kEc ?ku&xPNk e fudyr g rFkk igy pØ e [kEc dfydk; nj l curh
gA db [kEc dfydk; dflx ijr d vnj gh curh gA [kEc eVeyk gk tkrh g o tYnh gh [ky tkrh
gA ruk yEck o deku dh rjg eM tkrk gA [kEc Nu ij fxj tkr gA

jk dFkke

- 1- Qly leklr gku d ckn mRiknu d{k dk $\frac{1}{4}$ l Hkh lkefx;k l fgr $\frac{1}{2}$ 12 ?kV rd 70° l fY l ; l rkieku ij j[k o bld ckn dEikLV dk QLy mRiknu d{k l nj xM<k e Mky nA
- 2- ;fn Qly ifV;k e mxk;h x;h g rk mu ifV;k dk 2 ifr'kr l fM;e iUVkDykjkfQuV o 0-05 ifr'kr l fM;e dkckuV $\frac{1}{4}$ l kMk $\frac{1}{2}$ d feJ.k l mipkfjr djA
- 3- lQkb dk /;ku j[k o Liku Hkjk len i; kx'kkyk l [kjh nA

chekfj;k dh jkdFkke gr l ko/kkfu;k

- 1- [kkn e i; kx gku okyh l kexh rktk o dhVk.keDr gkuk pkfg,A
- 2- [kkn ge'kk iô Q'k ij gh cukb tkuh pkfg,A [kkn cukuk 'k: dju l igy Q'k dk 2 ifr'kr Qkeyhu ?kky l /kk yuk pkfg,A
- 3- [kkn cukr le; l Hkh l kexh dh feykoV vPNh rjg djuh pkfg, o ikuh dh ek=k l gh&l gh gkuh pkfg,A
- 4- [kkn dh chtkb l kQ&l Fkjh txg ij djuh pkfg, rFkk m l LFkku ij 2 ifr'kr Qkeyhu dk ?kky fNMd yA
- 5- [kEc d cht rktk o jkxeDr gkuk pkfg,A
- 6- ftu dejk e chtki jkUr cx j[ku gk m l dej e 24 ?k.V igy 2 ifr'kr Qkeyhu ?kky dk fNMd ko djA
- 7- [kEc mRiknu d{k d njokt ij 2 QV yEck] 1-5 QV pkMk o ,d bUp xgjk xM<k cuk dj m le 2 ifr'kr Qkeyhu dk ?kky ifrfnu MkyA tc Hkh dej e io'k dj] viu tr bl ?kky e Mck dj gh vUnj vk;A
- 8- [kEc rkMu e mi; kx e yk; tku oky vktkj Hkh vPNh rjg l l kQ gkA
- 9- [kyh gb o jkx xflr [kEck dk Hkh Fkyk d Åij ugh NkMuk pkfg,A bUg fudkyu d rjUr ckn Qkeyhu d ?kky e Mky nuk pkfg,A
- 10- [kEc dh efD[k;k dk le;ku l kj mipkj dj D;kfd ;g Hkh chekfj;k Qykrh gA
- 11- [kEc Hkou e pkjk rjQ lQkb j[kA
- 12- [kEc mRiknu d ckn] LiUV dEikLV dk xM< e nck n rFkk ub Qly yxku l igy dej dh vPNh rjg lQkb dj yA



[kEc d dhM&edkM vkj l=dfe;k dk icU/ku

vU; Qlyk dh Hkkfr [kEc dk db idkj d dhM&edkM vkj l=dfe {kfr igpkr gA fl ,fjM eD[kh] QkfjM eD[kh] flix VYI] ekbV vkj l=dfe [kEc dh ch tkb l ydj rMkb rd fd l h Hkh voLFkk e {kfr igpkr gA bl d vfrfjDr [kEc ,d vkrfjd QLky gku d dkj.k mRiknu d{kk e lgh ek=k e ueh vkj rkieku j[ku dh vko';drk gkrh g tk fd [kEc d dhM&edkM d ituu d fy, mi;Dr gA de vof/k dh Qly gku d dkj.k o Qyudk; e vo'kf"kr jlk;u] vo'k"l leL;k] dhVuk'dk dk [kyvke i;kx oftr djrh gA vr% [kEc mRiknu e dhM&edkM l cpu d fy, igyk dne dhM&edkM d io'k dk jkduk gA [kEc e fuEufyf[kr dhM&edkM vkr gA

d½ efD[k;k

[kEc e rhu idkj dh efD[k;k ud lku igpkrh gA

v½ fl ,fjM eD[kh

; [kEc dh lokf/kd {kfrdkjd efD[k;k ekuh tkrh g rFkk ;g ePNj d vkdkj dh gkrh gA bu dh nk tkfr;k ykbfkj;yk lkyukb rFkk ykO vfjiyk [kEc dh Qly dk {kfr igpkrh gA bu NkVh %3&4 fe0fe0% uV d vkdkj dh efD[k;k dh yEch Jfxdk; gkrh gA ; ik;% iUkh dh [kkn] txyh dodk rFkk lMrh gb ikni&lkeh;k e jgrh g vkj [kEc dh [k'c l vkdf"kr gk dj mRiknu d{kk e igp tkrh gA bl d yok] lQn] injfgr 1&5 fe0fe0 yEc exV gkr g ftue dkyk pedrk gvk eMd gkrk gA

;fn budk vkØe.k ikjfhkd voLFkk e gk rk ; dod tky Qyko e ck/kk Mkyr g] ft l d QyLo: i mRiknu cgr de gk tkrk gA yok [kEc dh uotkr dfydkvk rFkk ifjiDo [kEc nkuk dk {kfr xLr djr g vkj mUg Hkj jx dk ,o fpeMk cuk nr gA yok [kEc d ru dh Årdk dk [kk dj mue l jxk dk fuek.k dj nr g vkj dHkh&dHkh ij ifjiDo [kEc dk gh [kk yr gA ik<koLFkk iklr dj ; efD[k;k [kEc d db idkj d jkxk] l=dfe;k o c:fFk;k d lokgd dk dk; djrh gA tc e'k:e dEikLV dk pje&Å"ekfur dju d ckn BMk fd;k tkrk g rc ik<fl ,fjM efD[k;k [kkn dh ehBh egd l vkdf"kr gk tkrh g vkj [kkn e iR;d eknk eD[kh yXkhx 100&140 vM nrh gA bUgh vMk l yok ink gkr g tk Liku foLrkj %dod tky Qyko% dh vof/k e Qyu oky dod tky dk u"V dj nr gA bu yok l mRiknu d{kk e miyC/k rkieku d vulkj 2&3 llrkg d Hkhrj ik< efD[k;k dh ub ih<h ink gk tkrh gA

c% QkfjM eD[kh

exkIhfy;k gkYVjVk rFkk e0 ukbxk QkfjM eD[kh dh nk ,lh tkfr;k g tk 'or cVu [kEc dk vR;kf/kd gkfu igpkrh gA QkfjM ,d NkVh %2&3 fe0fe0% dcM;Dr ihB okyh eD[kh gA jx Hkjk&dkyk gkrk g vkj o fl ,fjM eD[kh l vf/kd etcr gkrh gA bud yokok dk jx lQn gkrk g vkj ;g injfgr gkr gA bud eMd dk fljk udhyk gkrk gA ; eD[k;k rt ,o >Vd okyh xfr l b/kj&m/kj Hkxrh gA eknk ik< eD[k;k c<r g, [kEck d fxyk %xyQMk% ij ;k dflx feJ.k dh lrg ij vM nrh gA yokok [kEck d ruk e l jx cukr gA ,lk ik;k tkrk g fd ifr 30 xke [kkn e 100 yokok dh l[;k] [kkn e dod tky dk xgu {kfr igpku d fy, i;klr gkrh gA e0 gYjVk dh ik< eD[k;k c<r g, dod&tky dh egd l Liku foLrkj d{k dh vkj vkdf'kr gkrh g vkj [kkn e ,d eknk yxHkx 50&60 vM nrh gA <hxjh [kEc e yokok fxyk d chp jgdj [kEc dk [kkr gA

l% lfIM eD[kh

lfIM dh ik< eD[k;k bruh l{e gkrh g fd vk[kk l 'kk;n gh fn[krh gA buG bud NkV yokok dh lg;k rk l igpkuk tk ldrk g] tk injfgr ,o lQn vFkok ukjxh jx d gkr gA budk eMd Li"V ugh gkrk] ; lfi mud eMd d LFkku ij nk ^<d&fcUn* ektn gkr g tk bl ,Dl dk vkdkj nr gA lfIM eD[kh dh ituu&{kerk cgr rho g ft ld QyLo:i ;g mRiknu dk Hkkjh gkfu igpkr gA bl d yokok] dod tky] ru d ckgjh Hkx rFkk ru ,o xyQMk dh lf/k&LFky dk Hk{k.k djr gA [kEck e yokok dh mifLFkr rFkk ckn e thok.k lØe.k d dkj.k [kEc Hkj ,o cnjx gk tkr g vkj mue NkV&NkV lkoh nkx ink gk tkr gA

icu/ku vkj jkdFkke

[kEc dh eD[k;k d fu;U=.k ,o d'ky icu/ku d fy, fuEufyf[kr mik;k dh vul'kk dh tkrh gA

1- vfxe fu;U=.k fof/k;k

i% lkQ&lQkb

lkQ&lQkb [kEc mRiknu dk lcl egUoi.k vx gA [kEc mRiknu e lkQ&lQkb [kkn cuku l igy gh 'k: gk tkrh gA [kkn cuku d ikx.k e [kkn cuku d 24 ?k.V io 2 ifr'kr Qkeyhu dk fNMdco djuk pkfg,A [kkn ikx.k dh lkQ&lQkb] dhMk&edkMk dk fu;U=.k djrk gA ikLpjhdj.k dhMk&edkMk dh lHkh voLFkkvk dk fu;f=r djrk gA

ii% njokt vkj f[kMfd;k e tkyh yxkuk

[kEc dh eD[k;k c<r g, dod tky dh egd dh vkj vkdf'kr gkrh gA [kEc mRiknu d le; ; eD[k;k mRiknu d{k e io'k djrh g vkj chftr dEikLV vkj [kEc D;kfj;k e ituu djrh gA NkV vkdkj d dkj.k ; eD[k;k lk/kkj.k tkyh l vk lkuh l vk vkj tk ldrh gA blfy, bu eD[k;k d

io'k dk jkduk vkj Hkh t :jh gk tkrk gA njoktk vkj jk'kunkuk dk 35&40 e'k@l0eh0 vkdkj d ukbyku ;k rkj dh tkyh yxku l bu efD[k;k d io'k dk jkdk tk ldrk gA

iii% tgj vkd!"k.k

;fn mRiknu d le;] efD[k;k gk rk budk vU; fof/k;k }kjk Hkh fu;fU=r fd;k tk ldrk gA cxku dhVuk'kd dk ikuh e 1%10 d vuikr e feykdy vkj mle FkkMh lh phuh Mkydj mRiknu d{kk e j[ku ij efD[k;k dk iHkkoh <x l fu;fU=r fd;k tk ldrk gA

iv% fpifpih ifVV;k

dej dh nhokj e thjk okV dk ihy jx dk cYc yxk nA cYc d uhp ikyhFkhu dh 'khV e fpifpik inkFk yxkdj efD[k;k dk fu;U=.k fd;k tk ldrk gA bl fof/k d }kjk efD[;k dk mRiknu d{kk e idV gku dk le; o l[;k d ckj e irk yxk;k tk ldrk gA

2- mipkj d rjhd

i% chtkb d 7 fnu ckn] D;kfj;k e 0-01 ifr'kr eykfFk;ku dhVuk'kd ?kky dk fNMdco dj

ii% Qly e budk idki gk rk MkbDykjkok l %U;oku% dhVuk'kd dk 0-1 ifr'kr ?kky dk fNMdco cxk] ifV;k] nhokjk vkj Q'k ij dJA

iii% mRiknu d le; efD[k;k d idki dk jkdu d fy, nhokjk ij 0-02 ifr'kr Mfl t dhVuk'kd dk fNMdco dJA fNMdco djr le; bl ckr dk è;ku j[kuk pkfg, fd ,d gh dhVuk'kd dk ckj&2 fNMdco u gkA

iv% ijk mRiknu yu d ckn] [kkn dk d{k l nj xM< e Qd dj 10 l0eh0 ekVh feVVh dh ijr l nck nA

v% MkbQycutjku %0-01% dk fNMdco cxk e dJA

[k% fLix VYl

fLix VYl yxHkx 2-85 fe0eh0 yEck ,d l{e dhMk g ftud 'kjhj d nkuk fdukjk ij gYdh cxuh jx dh ifVV;k gkrh gA bud 'kjhj dk jx eVeyk gkrk gA bu dhMk d i[k ugh gkr g o NMu ij mNyr gA

ud l ku

; [kEc d dod tky dk [kkr g ft l l [kEc dfydkvk dh c<kRrjh :d tkrh g rFkk [kEc d Åij NkV&NkV xM< cuk nr gA ; dhM cVu [kEc l T;knk {kfr f<xjh [kEc dk igpkr g vkj ru d vk/kkj ij bdVB gk dj dod tky dk [kkuk 'k: dj nr g] QyLo: i f<xjh [kEc dh c<r :d tkrh g vkj ej>kb gb yxrh g rFkk <hxjh e Nn gh Nn dj nr gA

ikjfeHkd [kEc mRiknu

icU/ku

- 1- mRiknu d{k o vklikl dh txg dh lQkb j[kA
- 2- Qly Q'k l FkkMk Åij yxk,A
- 3- dEikLV dk ikLpjhdj.k Bhd l djA
- 4- iHkkfor LFkku dk eykfFk;ku dh 0-05 ifr'kr ?kky l mipkfjr djA

x½ chVy

;g ,d NkVk lk dhMk g ft l dk 'kjhj nk i[k [kkyk l <dk jgrk g] ft l d dkj.k 'kjhj yxHkx ,d xky vkdkj xg.k dj yrk gA ;g ik;½ Hkj ;k dky jx d gkr gA

ud l ku

; dhM ik;½ f<xjh [kEc dk gh ud l ku igpkr gA l fM;k vkj ik< dhMk] nkuk gh f<xjh [kEc dk [kkr g ft l l f<xjh [kEc e db vkdkj d Nn gk tkr g o fxyk ¼xyQMk½ e ey Hkj tkrk gA {kfrxLr f<xjh [kEc dN fnuk e fcYdy [kRe gk tkrk gA

jkdFkke

- 1- f<xjh [kEc dh rMkb mfpr voLFkk e djA
- 2- njokt vkj f[kMfd;k e tkyh yxk, o njokt d uhp [kkyh txg dk cln dj nA
- 3- mRiknu d{k d vklikl Cyhfpix ikÅMj dk fNMdko djA

?k½ [kEc d c : Fkh ¼ekbV½

c : Fkh ,d l {e tho g rFkk bl dh db i tkr;k [kEc dk {kfr igpkrh gA [kEc dh c : fFk;k dk ie[k L=kr [kkn o dflx feJ.k r;kj dju e i;Dr dPpk eky gkrk gA c : Fkh dod tky dk [kkr g vkj [kEc d ruk vkj Vkfi;k ij /kCc ;k fNn cuk nr gA dN c : Fkh] dflx feJ.k d uhp Qy jg dod tky dk [kkr gA dHkh&dHkh ;g [kEc d tM dk [kkuk 'k : dj nr g ft l l ru dk fupyk fgLlk gYdk yky ;k Hkjk gk tkrk gA

jkdFkke

- 1- [kkn o dflx feJ.k dk lgh ikLpjhdj.k djA
- 2- mRiknu d{k dh Nr] Q'k vkj nhokjk dk MkbdkQky 0-1 ifr'kr ?kky l mipkfjr djA
- 3- [kkyh mRiknu d{k e 250&300 xke xUnd tyk,A

- 4- Qly yxkr le; vxj idki gk rk [kkn ij Mkb thuku 20 b0 l h0 uked nok dh 1-5&2-0 fe0yh0 ek=k 10 yhVj ikuh e ?kky dj fNMdko dJA
- 5- Qly yu d ckn [kkn dk mRiknu d{k l nj xM<k e Qd n o Åij 10 l0eh0 ekVh feVh dh ijr p<k nA

M½ [kEc d l=dfe

l=dfe;k dk idki Qly e fd l h Hkh le; gk l drk gA l=dfe l {e tho gA [kEc dk dod tky bu l=dfe;k dk e[; vkgkj gA l=dfe [kEc dk ie[k ij thoh g ft l dk [kEc mRiknu d le; io'k ijh Qly dk u"V dj nrk gA [kEc e ik; % rhu idkj d l=dfe vkr g%

- 1- dod tky dk [kku oky l=dfe ¼ij thoh½
- 2- [kkn vkj dflx feJ.k dk [kku oky l=dfe ¼erHk{k½
- 3- ijHk{k½ l=dfe

1- ij thoh l=dfe

bu l=dfe;k d eg e lb t l h ljpuk LVkbyV gkrh g ft l dh lgk;rk l ; dod tky e Nn djd dod dk jl plr gA QyLok:i dod tky /khj&2 [kRe gk tkrk gA bu l=dfe;k dh l[;k cgr r th l c<rh g %50&100 x.kk@llrkg½A bl dkj.k dN gh l=dfe;k dk io'k dN fnuk e ijh Qly dk u"V dj nrk gA

2- erHk{k½ l=dfe

;g l=dfe {kfrxLr cxk e Hkkjh l[;k e ik; tkr gA bu l=dfe;k e LVkbyV ugh gkrk ft l d dkj.k ;g [kEc dk iR;{k : i l {kfr ugh igpk ikrA ijuR ;g l=dfe cxk e xUnxh Qykr g o ;g viu 'kjhj ij gkfudkjd thok.kvk dk okgu djr gA

3- ijHk{k½ l=dfe

;g l=dfe cgr de l[;k e ik, tkr g tk ij thoh l=dfe;k vkj dhMk&edkMk d vM o c:Fkh;k dk [kkr gA

l=dfe;k dk lkr

budk ie[k lkr vikLpjhdr dEikLV o dflx feJ.k gkrk gA bl d vfrfjDr] ;g [kEc mRiknu e i;kx e yk, tku oky midj.kk l Hkh Qyr gA [kEc dh efD[k;k Hkh l=dfe okgd dk dke djr gA

खुम्ब में लगने वाले कीड़े-मकोड़े व सूत्रकृमि



स्प्रिंग टेल्ल



बरुथी (माईट)



सिएरिड मक्खी



फोरिड मक्खी



सेसिड मक्खी



सूत्रकृमि

I=dfe {kfr d y{k.k

- 1- dod tky dk /khj&/khj o /kCck e QyukA
- 2- [kkn dh lrg dk /klukA
- 3- c<r dod tky d lQn jx dk /khj&/khj Hkjk gkukA
- 4- [kEc dk de vkj nj l mRiknu gkukA
- 5- [kEc dfydkvk dk Hkjk gkukA
- 6- mRiknu e fxjkoVA
- 7- ijh Qly dk vIQy gkukA

jkdFkke

- 1- lQ&lQkb dk /;ku j[kA
- 2- dEikLV cuku dh Q'k] ch tkb dju ,o dEikLV cuku e mi;kx e yk; tku oky lHkh midj.kk dk 2 ifr'kr Qkeyhu d ?kky l /kk yA
- 3- ch tkb l 24 ?k.V io mRiknu d{k o mle cu pk[kVh ij 2 ifr'kr Qkeyhu dk fNMdko djA
- 4- mRiknu d{k io'k }kj ij 1&1-5 bp xgjk iko ik'k cuk dj ml e 2 ifr'kr Qkeyhu dk ?kky Hkj rFkk tr Mck dj gh d{k e io'k djA
- 5- dEikLV vkj dflx feVvh dk lgh <x l ikLpjhdj.k djA
- 6- fNMdko e mlk;Dr gku okyk ikuh LoPN gkA
- 7- yEch fof/k l [kkn r;kj dju ij pkFkh iyVkb d le; 0-2% dckf¶;jku feyk;A
- 8- 'or cVu [kEc&f<xjh [kEc Qly pØ viuk;A
- 9- [kEc dh efD[k;k dk fu;U=.k djA
- 10- Qly yu d ckn] ifV;k dk 70° lfyI;l rkieku ij 8&12 ?kV rd vfr Å"ekfur djA
- 11- ijk mRiknu yu d ckn] [kkn dk mRiknu d{k l nj xM< e Mky dj feVvh l <d nA



dVkb! mijkUr [kEc dk j[k&j[kko o m l dk l l k/ku

dVkb&mijkUr [kEc vfr'kh?k [kjc gku okyh lCth g vkj l k/kkj.k rkieku ij ,d fnu l vf/kd j[k ikuk l Hko ugh gkrkA [kEc e dVkb&mijkr gku oky vokfNr ifjoru fuEu idkj gA

- 1- [kEc dk dkyk iMuk
- 2- Hkkj e deh vkuk
- 3- [kEc dk [ky tkuk
- 4- [kEc dk [kjc gk tkuk

mijkDr ifjoruk d ,d lhek l vf/kd gk tku ij miHkkDrk ,lh [kEc dk i ln ugh djr g vkj foØ; u gku ij mRiknd dk i.k&gkfu dk lkeuk djuk iMrk gA [kEc dh mfpr dVkb] j[k&j[kko] Hk.Mkj.k rFkk i lLdj.k dh fof/k;k dk lgh vulj.k dju l mRiknd {kfr l cp ldr g rFkk vfrfjDr ykHk Hkh iklr dj ldr gA

dVkb!

loiFke mRiknd ;g /;ku j[k fd dVkb djr le; [kEck dk cgr gYd gkFk $\frac{1}{4}mx\frac{1}{2}fy;k\frac{1}{2}$ l ?kedj fudky vkj l kFk gh rt /kkj oky LVhy d pkd l LVe $\frac{1}{4}feVVh yxh tM\frac{1}{2}$ dkV yA dV g, [kEck dk] ;fn o vR;kf/kd xn $\frac{1}{4}df\frac{1}{2}x feVVh yx\frac{1}{2}$ gk rk] 0-025 ifr'kr $\frac{1}{4}2-5$ xke ifr 10 yhVj ikuh $\frac{1}{2}$ ikVkf'k;e eVckb l YQkbV vkj 1 xke b0Mh0Vh0,0 ifr 10 yhVj ikuh d ?kky e /kkdj i[k d uhp ikp feuV d fy; l [kk yA rniokr 100 xt d ikyh ikikbyhu Fkyk e 200 xke id djd fctyh lhyj ;k ekecÜkh l lhy dj nA

Hk.Mkj.k

;fn fd lh dkj.ko'k [kEc ,d ;k nk fnu j[ku iM rk fyQkQk e id dh xb [kEc dk fÝt e 5° l fYl; l $\frac{1}{4}Yhtj$ d uhp dh 'kYQ $\frac{1}{2}$ e j[kk tk ldrk gA l k/kkj.k rkieku ij j[ku l [kEc 'kh?k dky iMu yxxA

ç lLdj.k

cVu [kEck dk db fof/k;k l i lLdr fd;k tk ldrk gA

- 1- vpkj cukuk $\frac{1}{4}fidfyx\frac{1}{2}$

2- fMCckcUnh ¼dfux½

3- I [kkuk ¼Mkbx½ ¼fIQ f<xjh d fy;½

pfd fMCckcnh gr ;= vR;kf/kd egz gkr g vkj mld fy; db vU; ph t t l ,Q0ih0vk0 ykb l l] ,d gky] vU; bekjr bR;kfn dh vko';drk iMrh g] blfy; ;gk NKV vk; ox d mRikndk dk /;ku e j[kr g, doy vpkj cuku dh fof/k dk o.ku foLrkj l fd;k t k jgk g rFkk fMCckcnh d ckj e doy l {k i e crk;k t k jgk gA fMCckcnh gr mRikndk dk vyx l if'k{k.k fn;k t k l drk gA

[kEc dh fMCckcUnh

[kEc dh fMCckcUnh dju gr [kEc l kQ&lFkj gku pkfg; rFkk [ky g, ugh gkA [kEc dh fMCckcnh dju d fy; ued d ?kky dk bLreky djr gA [kEc dh fMCckcUnh dju dk rjhdk l {k i e fuEufyf[kr gA

1- [kEc dh NVkbl ,o ,dh dj.k ¼xfMx½ djuk

fMCckcnh gr ,d gh vdkj dh [kEck dk i ;kx e yk, rFkk ;g Hkh /;ku j[kuk pkfg, fd [kEc [ky u gkA

2- [kEc dh /kykbl

,d t l vdkj dh bu [kEck dh vPNh idkj l /kykb djr g rkfd [kEc dh lrg ij fd l h Hkh idkj dh vokfNr ph t u yxh jgA

3- [kEc dk mckyuk ¼Cykfpkx½ rFkk B.Mk djuk

l kQ fd; g, [kEc dk ¼ijk ;k vk/kk] t :jr d vk/kkj ij½ mcyr g, uedhu ¼2%½ ikuh e 5&6 feuV d fy; j[kr g mld ckn l Hkh [kEc dk rjUr ,d l kFk B.M ikuh e Mky nr gA bl ifØ;k dk Cykfpkx dgr gA

4- [kEc dh Hkjkb

Cykp fd; g, [kEc dk fMCc 400 xke ¼225 xke½(800 xke ¼440 xke½ e Hkjuk pkfg, vFkk r yxHkx [kEc dk 1 ik.M te du e Hkjuk pkfg, vkj 'k" k Hkx ued d ?kky ¼fooj.k uhp½ l Åij rd Hkj nuk pkfg,A

5- ued dk ?kky Mkyuk

ued dk ?kky cuku d fy; 2 ifr'kr l k/kkj.k ued] 1 ifr'kr puh] 0-1 ifr'kr l kbfVd ,f l M dk fuf'pr ek=k e feyk dj l kQ di M ;k NUuh l Nku yuk pkfg, ft l l fd ?kky fcYdy l kQ gk t k ;A

ikjfeHkd [kEc mRiknu

6- fMCck dk fuokr djuk

Hkj g, fMCck dk mcyr g, ikuh e ;k ,xtkLV ckDI e j[kr g tc rd fd mld vUnj fo|eku ued d ?kky dk rkieku 80&85⁰ IfyI;I u gk tk;A

7- fMCckcnh

,xtkLVx ½fuokr½ dju d rjUr ckn] ijh rjg gok eDr fMCc dk vPNh idkj I <Ddu }kjk cUn ¼lhyhx½ djr gA fMCck cUn dju dh fØ;k ,d fo'k" idkj dh e'khu] ^Mcy flej^ d }kjk dh trrh gA

8- fMCck dk l l k/ku ¼fufthdj.k½ djuk

cUn fd; g, fMCck dk ,d fuf'pr rkieku rFkk fuf'pr le; d fy; vFkk 115&121⁰ IfyI;I rkieku ij 25&30 feuV rd j[kr g rkfd fMCc i.k :i l l {etho jfgr gk l dA l l k/ku@fufthdj.k dh ifØ;k fMCck d vkdkj ij fuHkj djrh g vFkk cM du d fy; 35&40 feuV le; i;klr jgrk gA l k/kkj.kr;k vkVkdYo ¼fjVkv½ e 22 ikM i l j ij 30 feuV j[kr gA

9- fMCck dk B.Mk djuk

l l k/ku d rjUr ckn fMCck dk 4&5 feuV rd B.M ikuh e j[kr gA

10- fMCck dk Hk.Mkj.k

fMCck cUn dju d ckn fMCck dk Hk.Mkj xg e j[kr gA Hk.Mkj.k LFkku B.Mk rFkk l [kk gkA

[kEc dk vpkj cuku dh fof/k

1- lQkb o /kykb

[kEc dk vpkj cukr le; lcl igy [kEc pkg og cVu gk ;k f<xjh] dVkb d ckn [kEc dh lQkb o /kykb dkQh vPNh idkj l djA tgg rd lHko gk [kEc dk lkn ikuh l db ckj lQ djA

2- VdMk e dkVuk

/kykb dju d ckn [kEc ¼cVu [kEc½ dh dVkb ¼LykbfIx½ djr g ft l d fy; cM vkdkj d [kEck dk pj Hkxxk e rFkk NkV [kEck dk nk Hkxx e dkV yr gA

3- CykfpX djuk

dV g, [kEc d VdMk dk mcyr g, ikuh e 0-05 ifr'kr d0,e0,l0 ¼ikVkf'k;e eVkcblYQkbV½ d LkFk 10 feuV rd j[kr gA mld rjUr ckn [kEc d VdMk dk ,d lFk B.M ikuh e dN nj d

fy; j[kr gA B.M ikuh e l VdMk dk fudkydj fd l h fNn;Dr ¼ijQkjVM½ LVhy ;k lykfLVd d Vc e j[kr gA

4- ued feykdj j[kuk ¼D;kfjx½

Cykp fd; g, VdMk dk 10 ifr'kr ued dh nj l vFkkr ,d fdyk xke CykpM [kEc d VdMk e 100 xke ued feykdj ,d fnu d fy; j[kr gA vxy fnu cru e ued dk ?kky dkQh ek=k e cu tkrk g] ml ued d ?kky dk Qd dj [kEc d VdMk dk fudky dj vyx cru e j[k yr gA

5- ,flfVd ,fIM rFkk ifjj{k.k feykuk

fuFkj g, VdMk e 1 ifr'kr ,flfVd ,fIM vFkkr 1 fdykxke Cykp fd; g, [kEc d VdMk e 10 feyh yhVj ,flfVd ,fIM rFkk 0-065 ifr'kr l kM;e ctk,V ¼0-65 xke½ feykr gA

6- e lky feykuk

,flfVd ,fIM rFkk l kM;e ctk,V feyku d ckn e lkyk dh fuEufyf[kr ek=k dk Hkh m le feyk nr gA

,d fdykxke Cykp fd; g, [kEc d fy; e lkyk dh ek=k

ih l h gb jkb & 30 xke

ih l h gb gYnh & 20 xke

yky fep ikÅmj & 20 xke

thjk ih l k gvk & 1&2 xke

lkQ ih l h gb & 1&2 xke

dkyh fep ih l h gb & 1&2 xke

lkr dykth & 10 xke

lkr vtok;u & 10 xke

xM ;k puh ¼pk'kuh d : i e½ & 10&15 xke

ry & 50&100 feyh yhVj

dykth rFkk vtok;u dk ry e idkdj B.Mk dj d feykr gA bl idkj l l Hkh e lkyk dk feyku d ckn lkQ tkj e Hkj dj <Ddu cUn dj d j[kr gA

f<xjh [kEc dk /ki e l [kkuk

f<xjh [kEc dk /ki e l [kddj vk l kuh l ifjjf{kr fd;k tk l drk gA ble u rk fd l h e'khu dh vkj u gh ry] elkyk o j l k;uk dh vko';drk iMrh g rFkk t :jr iMu ij mul FkkMh nj ikuh e fHkxkdj eu i l Un 0; tu cuk; tk l dr gA f<xjh [kEc dk /ki e l [kku dh fof/k fuEufyf[kr gA

f<xjh [kEc dk /ki e l [kku l igy ;g vko';d g fd f<xjh dh rMkb dju d ckn mudh vPNh idkj l l Qkb dj y rkfd f<xjh dh l rg ij fd l h Hkh idkj dh rMh $\frac{1}{2}$ l k $\frac{1}{2}$;k dkb vU; ph t u yxh jgA l Qkb dju d ckn f<xjh dk fd l h ,Y;ehfu;e@LVhy dh V ;k ikyhFkhu ;k diM dh pknj d Åij rt /ki e Qyk dj j[k nr gA tc rd dh pknj ij Qyh [kEc ijh rjg l ugh l [k tkrhA igpku d fy; f<xjh [kEc l [ku d ckn tc fd l h ,d l [kh f<xjh dk rKMr g rk dV dh vkokt $\frac{1}{4}$ ueh 8% l de gk $\frac{1}{2}$ vkrh gA bl idkj l l [kh [kEc dk ikyhFkhu d cx e NkV ;k cM t l h Hkh ifdx djuh gk] id dj d vPNh idkj l cUn dj nr gA f<xjh dk l [kku d fy; rt /ki dk gkuk vfr vko';d gA



'or cVu [kEc d eY;o/kd mRikn

[kEc e ikVhu] foVkfue] [kfut rFkk j'k dh ipjrk gkrh gA vke turk e [kEc d ifr tkx:drk c<h g] ft l l fiNy db o"kk e [kEc d mRiknu rFkk [kir e ykHknk;d of) gb gA fQj Hkh] 'khr _r e] t c [kEc dk ek leh rFkk vk|kfxd mRiknu pje lhek ij gkrk g] bldh de thou {kerk ¼vk;½ rFkk vkf/kE; d dkj.k foØ; dh ij'kkfu;k e c<Rrjh gh gkrh gA foi.ku dh dfBukb;k d gy gr] rktk o l [kh [kEc ½e'k:e½ dk fofHkUu fof/k;k d }kjk vkt dh t:jr d : i e fofHkUu eY;o/kd mRikn e cnyk tk ldrk gA ;g ifØ;k e'k:e dh [krh dju okyk dk ek= gkf u l gh ugh cpkrk vfir eY;o/kd mRikn d cktkjhdj.k l vk; e Hkh of) gkrh gA e'k:e l tk eY;o/kd mRikn cuk; tk ldr g] mue l dN bl y[k e vx iLrr gA

1- e'k:e vpkj

e'k:e vpkj] tk fd lkekU;r cVu e'k:e l cuk;k tkrk g] Lokn] x.k rFkk vk; e mPp dkfV dk gkrk gA loiFke vPN x.kk oky e'k:e dh NVkb o vf/kdj.k dju d i'pkr bl 2% ued] 0-1 ifr'kr flfVd ,flM d foy;u e 10 feuV d fy, mcky tkrk gA fu/kkju d i'pkr bl 24 ?k.V rd 10 ifr'kr ued d ?kky e j[kk tkrk gA rRi'pkr ble elkyk dk feJ.k feyk;k tkrk gA e'k:e d vpkj e lkekU; ued rFkk ry d vfrfjDr 1% ,flfVd ,flM rFkk 650 ihih,e lkfM;e ctk,V ifjj{k d d : i e feyk;k tkrk gA bl fof/k l vU; [kEck dk vpkj Hkh cuk;k tk ldrk gA e'k:e vpkj dk 1 lky l T;knk fnuk rd] fcuk bld Lokn e ifjoru d] l xg dj d j[kk tk ldrk gA

2- e'k:e uxV

e'k:e uxV ¼cfM;k½ e'k:e rFkk dky pu dk 1½ vuikr e fefJr dj d l k/kj.k fof/k }kjk rFkk ble ued] elky feyk d j cuk;k tkrk gA l [k e'k:e l cfM;k vPNh curh gA

3- e'k:e fcfLdV

e'k:e fcfLdV dk e'k:e ikmMj] enk] ?kh] phuh] n/k ikmMj] Xydk t] ued] vekfu;e ckbdkckuV o ofuyk , l l d feJ.k l cuk;k tkrk gA i;kxk l fl) gvk g fd en e 7-5 ifr'kr e'k:e ikmMj l cuk;k x; fcfLdV e cgrj Lokn rFkk dj d jkiu gkrk gA

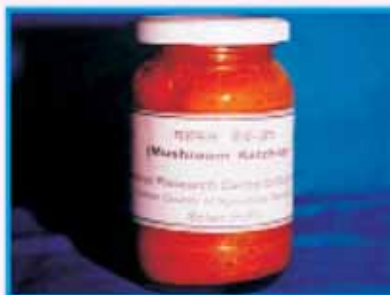
4- e'k:e li ikmMj

e'k:e li ikmMj dk cgrjhu x.kk oky e'k:e ikmMj l cuk;k tkrk g] ft l mUur fdLe dh rduhd l l [kkdj rFkk fofHkUu idkj d elky feyk d j cuk;k tkrk gA e'k:e ikmMj cuku e fofHkUu

मशरूम के मूल्यवर्धित उत्पाद



मशरूम मुरब्बा



मशरूम कैचप



मशरूम बिस्कुट



ढिंगरी मशरूम पाउडर



मशरूम बड़ियाँ



मशरूम करी



मशरूम अचार



मशरूम पापड़



मशरूम सूप पाउडर



मशरूम नूडल्स



मशरूम सूप



मशरूम जैम

idkj dh l kexh o elky t l n/k ikmMj] eDdh dk vkvk] ued] ?kh] 'kDdj] dkyh fep vkj thjk ikmMj mi;kx fd; tkr gA bl ikmMj l r;kj fd;k x;k li Lokn vkj lx/k e cgrj x.kk okyk gkrk gA

5- e'k:e lkl

loiFke e'k:e dk /kkdj] bl VdMk e dkVdj idk;k rFkk ml idkdj iLV cuk;k tkrk gA bld i'pkr iLV e 0-2 ifr'kr vjkjKV] 1-5 ifr'kr ,flfVd ,fIM o vU; elky feykdj] feJ.k dk 35° fcEI Vh0, l0, l0 rd B.Mk fd;k tkrk gA bl idkj e'k:e l vPNh lx/k o Lokn;Dr lkl r;kj fd;k tk ldrk gA

6- e'k:e dl.Mh

loiFke e'k:e dk /kkdj] dkVdj] ihykiu vku rd j[kk tkrk g rFkk ble phuh Mkydj 70° fcEI ij rhu fnuk d fy; j[kk tkrk gA mld i'pkr 0-1 ifr'kr flfVd ,fIM feyk;k tkrk g vkj 72° fcEI ij mkydj xk<k fd;k tkrk gA mld ckn e'k:e d VdMk dk l[kkdj] e'k:e d.Mh r;kj fd;k tkrk gA e'k:e d.Mh cgr gh Lokfn"V ,o fPoxe dh rjg gkrh g rFkk bl 8 eghuk rd lxxg djd j[kk tk ldrk gA

7- e'k:e ejCck

e'k:e dh NVkb dj] ml /kkdj] mle lb;k l Nn fd; tkr g rFkk 0-5 ifr'kr d0,e0,l0 e 10 feuV d fy; ihykiu vku rd j[kk tkrk gA bld ckn ble e'k:e d otu dk 50 ifr'kr phuh feykdj rhu fnuk rd yxkrkj j[kk tkrk gA bld i'pkr e'k:e dk ?kky l fudky dj 0-1 ifr'kr flfVd ,fIM vkj blh ek=k e phuh dk ?kky feyk;k tkrk gA bld i'pkr bldh lknrk 70° fcEI rd c<ku d ckn ble okil e'k:e dk Mky fn;k tkrk g vkj bl idkj cgrj x.kk okyk e'k:e ejCck r;kj fd;k tkrk gA

8- e'k:e fpll

e'k:e dk /kkdj ml 0-5 ifr'kr d0,e0,l0 vkj 0-1 ifr'kr flfVd ,fIM e Mkyk tkrk gA mld ckn ml VdMk %Lykbl t½ e dkVdj l[kk;k tkrk g vkj fjQkbUM ry e ryk tkrk gA ble ued] flfVd ,fIM] yky fep ikmMj] xe elkyk rFkk vU; elky feyk; tkr gA bl idkj e'k:e l cgrj fdLe dk fpll tk [kku e Hkh Lokfn"V gkrk g] r;kj fd;k tk ldrk gA



[kEc mRiknukijUr i;Dr [kkn ¼ik"kk/kkj½ dk iu% bLreky

df"kJ i'kiky o exh iky vkfn 0;olk;k l e[; mRikn d vfrfjDr vo'k"t t l ik/kk d vo'k"t] i'k o if{k;k d eye= vkfn iklr gkr gA bu vo'k"kk dk ,d&nIj 0;olk;k e i;Dr u dju ij ; okrkoy.k dk nf"kr djr gA vr% gekj iotk u viuh OkKkfud lkp dk mtkxj dj fofHkUu 0;olk;k l iklr gku oky vo'k"kk dk e[;rk df"k o i'kiky e [kkn o pkj d fy, i; kx fd;kA mnkgj.k d rkj ij] i'kiky o exh iky l iklr gku oky eye= dk n'kh [kkn d : i e df"k o cxxokuh Qlyk e i; kx djr g] cny e df"k o cxxokuh Qlyk l iklr vo'k"kk t l HkIk] ivky] dMoh vkfn dk pkj d : i e i'kvk dk f[kyk;k tkrk gA bl idkj l bu vo'k"kk l okrkoy.k Hkh nf"kr ugh gkrk o 0;olk;k dk vkil e Hkkr rY; lg;kx nr gA

Hkkjr dh c<rh gb vkcknh dk fujrj ?kVrh tk jgh [kfrgj Hkfe l iV Hkj Hkk tu iklr djku dk dk; l ?k"ki.k gkrk pyk tk jgk gA df"k o cxxokuh Qlyk d vfrfjDr] e'k:e dh [krh bl tfVy leL;k dk dkQh gn rd gy dju e lgk;d fl) gk jgh g rFkk l kFk gh df"kJ i'k ikyu o exh ikyu l iklr vo'k"kk dk bl dh [krh d fy, vPN <x l bLreky fd;k tk l drk gA iju e'k:e dh [krh l iklr vo'k"k ½LiUV dEikLV½ vU; 0;olk;k d vo'k"kk dh Hkkfr okrkoy.k d fy, ,d leL;k cu tkrk gA oKkfudk d dfBu ifjJe o vul/kkuk d ek/e l ^e'k:e LiUV dEikLV^ dk fofHkUu mnn';k d fy, i;Dr dj bl leL;k dk dN gn rd lek/kku dj fy;k gA

LiUV dEikLV D;k g l

okLro e ^LiUV dEikLV^ e'k:e dh Qly yu d ckn cpk vo'k"t dEikLV g ft l ij e'k:e mxk;h tk pdh gA

ble xkcj dh [kkn o exh Qke l iklr [kkn l vf/kd ik"kd rUo ik; tkr gA ,d jklk;fud fo'y"t.k d vulkj rkt LiUV dEikLV e 1-9% ukbVktu] 0-4% QkLQkj l o 2-4% ikVkf'k;e ik;k tkrk g rFkk 8&16 eghuk rd bl ikdfrd okrkoy.k e NkMu d ckn ble ukbVktu] QkLQkj l o ikVkf'k;e dh ek=k Øe'k 1-9] 0-6] o 1-0% ik;h tkrh gA 'k:vkr e LiUV dEikLV dk ih-,p- 7-28 gkrh g tk ikdfrd n'kkvk e lM xy LiUV dEikLV e c< tkrh gA

vul/kkuk }kjk LiUV dEikLV dh mi;kfxxrk dk dkQh gn rd fl) fd;k tk pdk gA fiNy n'kdk e fd; x; vul/kkuk l Kkr gkrk g fd LiUV dEikLV dk df"kJ cxxokuh] i'kiky vkfn 0;olk;k e lQyrk iod i; kx fd;k tk l drk gA

d'f'k] cKxokuh] i'kiky vkn 0;oIk;k e LiUV dEikLV d mi;kx

1% Hkfe I/kkj d

ik"kd rRok dh nf"V l detkj Hkfe e LiUV dEikLV dk bLreky dju l bl Hkfe dh x.koUkk e I/kkj gkrk gA bld mi;kx l Hkfe dh d.k foU;k l ljpuk o ik"kd rRok d Lrj e I/kkj gkrk g rFkk Hkfe dh ty /kkj.k {kerk c< tkrh gA Hkfe e doy 5% dh nj l LiUV dEikLV feyku l ik/kk dh QkLQkj l o ikVkf'k;e dh vko';drk o 25% dh nj l feyku l ukbVktu dh ekx ijh gk tkrh gA ;g Hkfe e miyC/k dhVuk'kdk o QQnuk'kdk d Lrj dk Hkh de djr g rFkk Qly e budk de l de Lrj ik;k tkrk gA [k-vu-fu- ij fd; x; i;kx e ik;k x;k fd cVu e'k:e l iklr LiUV dEikLV dk tc 20% dh nj l feVVh e feyk;k x;k rk mle edktc] eykfFk;ku] Mf l l o ckfoLVhu uked dhVuk'kdk o QQnuk'kdk dh ek=k dkQh gn rd [kRe gk xBA

2% cKxokuh Qlyk d mxku e

LiUV dEikLV e ektn ued dk fu{kkyr dj o 1&1-5 lky rd feVVh e nckdj j[ku d ckn bl cKxokuh Qklyk t l & l Cth] Qy] Qy] l tkoVh ik/kk dk mxku d fy, i.kr;k ;k v'kdkyd : i l feVVh d ek;/e d LFkk i j i;kx fd;k tk l drk gA

3% dkcfud [kkn d : i e

ukbVktu] QkLQkj l o ikVkf'k;e dh ml;Dr ek=k gku d dkj.k LiUV dEikLV dk dkcfud [kkn d : i e d'f'k o cKxokuh Qlyk d mxku e mi;kx fd;k tk l drk gA fd; x; v/; ;uk l irk pyrk g fd l fct;k d mRiknu e i;kx dh tku okyh xkj dh [kkn dk LiUV dEikLV l ifrLFkkfir fd;k tk l drk gA eDdk dh Qly e LiUV dEikLV dk [kkn d : i e i;kx dju l bld mRiknu e db x.kk c<kUkjh ikb x;hA

bl fun'kky; ij ,d ifj;ktuk d rgr fofHkUu cKxokuh Qlyk e vyx&vyx rjhd l fo?kfVr dh xb cVu e'k:e LiUV dEikLV dk i;kx [kkn d : i e fd;k x;kA i;kx d nkjku ik;k x;k fd VeVj dh Qly e 18-5 Vu@gDVj dh nj l 6&24 eghu ijkuk ikdfrd : i l fo?kfVr o 12 ekg ijkuk vukD l hdr fof/k l fo?kfVr LiUV dEikLV feyu ij vPNh inkokj iklr gb rFkk chekj vkn Hkh de yxhA f'keyk fep e 6&18 ekg ijkuk ikdfrd : i l fo?kfVr o 12 ekg dh vkD l hdr fof/k l fo?kfVr LiUV dEikLV 25 Vu@g0 dh nj l i;kx dju ij mRiknu e of) nt dh xBA

blh idkj vU; Qlyk t l eVj] QyxkHkh] vnjd] l;kt] cxu e LiUV dEikLV dk i;kx [kkn d : i e fd;k x;k rk vPNh inkokj feyhA [kk]kU; Qly xg e Hkh LiUV dEikLV dk i;kx jklk;fud mojd d l kFk fd;k x;k rk vPNh inkokj iklr gbA bu l Hkh i;kxk e ;g ik;k x;k fd LiUV dEikLV l cuh [kkn Qly mRiknu e c<kUkjh d l kFk&l kFk Qly dh x.koUkk c<kUkjh o fcekj;k dh jkdFkke e lgk;d fl) gkrh gA

4½ i'k vkgkj d : i e

LiUV dEikLV dk i'kvk d fy, pkj d : i e i; kx yk; k tk ldrk gA ,d v/;; u d vulkj cNMk o HkMk d pkj e f<xjh e'k:e l iklr LiUV dEikLV dk 30% rd feykdj pkj dh x.koUkk cjdjkj j[kh tk ldrh gA

f<xjh e'k:e l iklr i; Dr ik"kk/kkj ¼LiUV dEikLV½ e lyykt i; klr ek=k e gkrk g ft l i'kvk d iV e mifLFkr ,Utkbe o l{e thok.k vki kuh l fo?kfVr dj yr g rFkk bl l i'k dk mtk iklr gk tkrh gA bld vrfjDr bl rjg d i; Dr ik"kk/kkj e ikVhu dh ek=k rFkk ik"kk/kkj dh ikpdrk nuk T; knk gkrh gA bl idkj ;g ,d mÙke pkj dk dke djrk gA

5½ chekfj; k dh jkdFkke gr

df"k ,o cxxokuh QLkyk e yxu okyh dN chekfj; k dh jkdFkke e i; Dr ik"kk/kkj dk bLreky e yk; k tk jgk gA ;g n[kk x; k g fd i; Dr ik"kk/kkj ¼LiUV dEikLV½ dk i; kx djd l/kkj x feVh e mxk; x; VekVj e tM&xfk jkx dk lØe.k ugh ik; k x; kA i; Dr ik"kk/kkj l r; kj fd; k x; k l r lo e /kCck ink dju oky thok.k dh of) dk jkdrk gA bl rjg ;g EkDdk o vUuk l e Hkh dN chekfj; k dk jkdu e lgk; d gA

6½ iu% [kEc mxku gr

f'KVkd [kEc }jk i; Dr fd; x; ik"kk/kkj dk ihldj] gok e l [kkdj rFkk ikLpjhdr djd o ble xg dk pkdj o ekV vukt t l cktj] dk 10 ifr'kr dh nj l feykdj bl i; Dr ik"kk/kkj dk iu% lyjkVl l tkj&dk t uked f<xjh e'k:e dh itkfr dk mxku d fy, i; kx yk; k tk ldrk gA

'or cVu [kEc mRiknu d fy, vko'; d dflx feVh d LFkku ij i; Dr ik"kk/kkj l cuh dflx feVh dk i; kx fd; k tk jgk g rFkk ;g ik; k x; k g fd i; Dr ik"kk/kkj l r; kj dh xb dflx feVh d i; kx l iklr mRiknu ihVek l dh dflx ijr okyh Qly l iklr mRiknu d cjkcj gkrk g rFkk i; Dr ik"kk/kkj l r; kj dflx feVh d mi; kx l cDVhfj; y Cykp uked fcekjh dk lØe.k de gkrk gA

7½ ck; kx l mRiknu gr

xkeh.k {k=k e i'kvk dh deh d dkj.k igy dh vi{kk vkt dy xckj dh deh jgrh g tk fd ck; kx l d fy, ,d vko'; d vo; o g rFkk bl deh dk [kEc mRiknu l fudyh i; Dr ik"kk/kkj dk mi; kx dj ijk fd; k tk ldrk gA l kFk gh bld }jk ck; kx l vf/kd ek=k e mRiUu gkrh gA ,d v/;; u d vulkj] f<xjh e'k:e d i; Dr ik"kk/kkj dk ck; kx l l ;= e xckj d LFkku ij bLreky dju l 85 l 102% vf/kd x l dk fuek.k gvk rFkk bl ck; kx l l ;= l iklr Bkl inkFk] ik/k r; kj dju o lCth mxku d fy, ,d vPNh [kkn d : i e l fcr gvkA

8½ dīp, ikyu }kjk [kkn r;kj dju gr

df"k o cxxokuh QLkyk d fy, mi; kxh oeh dEikLV [kkn r;kj dju e [kEc mRiknu l fudyk i;Dr ik"kk/kkj dk mi; kx fd;k tk ldrk gA bld mi; kx l iklr oeh dEikLV [kkn e 1-85% ukbVktu] 0-3% QkLQkj l o 0-2% ikV'k ik;k tkrk g tk lCth o i"i mRiknu d fy, cgr vPNh [kkn ekuh tkrh gA

mi;Dr tkudkj h l Li"V g fd [kEc mRiknu d ckn fudkyh xb [kkn ¼ ik"kk/kkj ½ 0; Fk ugh tkrh g cfYd fofHkUu mnn'; k t l& i'kvk d fy, pkj d : i e] df"k o cxxokuh Qlyk e n'kh [kkn d : i e] Hkfe dk l/kkju o mldh mojr c<ku e] ck; kx l l;= e i'kvk dh xkj dh txg] iu% [kEc mxku d fy,] dflx feVvh r;kj dju vkfn d fy, i; kx yk;k tk jgk gA bld mi; kxk dk /; ku e j[kr g, ;g dgk tk ldrk g fd ;g df"k o cxxokuh Qlyk d fy, cgr egRoi.k gA ijUr vHkh bl {k= e vkj tkudkj h o vul/kkuk dh vko'; drk g rFkk vxy dN lkyk e bldk mi; kx fd l kuk d [krk e xkj dh [kkn dh rjg cM Lrj ij bLreky fd;k tk ldrk gA bld vykok okrkoy.k e gku oky in" k.k dk Hkh dkQh gn rd bld bLreky l de fd;k tk ldrk gA vk/kfud nkj e bld mi; kx l tfod [krk d pyu dk Hkh vkj cy feyxkA



_rvk ij vk/kkfjr okf"kd [kEc mRiknu ;k tuk

Hkkjr o"e e fofHkUu Ńf"e Qlyk dk cny&cny dj ekle dh vudyrk d vulkj fHkUu&fHkUu _rvk e mxk;k tkrk gA gekj iotk dh ;g ijEijk jgh g fd Ńf"e Qlyk dk ,d Øe e mxkr gA vkt Hkh ;g ijEijk dk;e g bl ijEijk d vulkj Qlyk dk fuEufyf[kr rF;k d vk/kkj ij mxkr gA

- 1- vf/kd ikuh pkgu okyh Qly d ckn de ikuh pkgu okyh Qly t l&/kku d ckn xgA
- 2- vf/kd mojd pkgu okyh Qly d ckn de mojd pkgu okyh Qly t l&/kku d ckn puka
- 3- elyk tM okyh Qly d ckn >dMk tM okyh Qly t l&xg&/kku&xUuka

Qlyk dk Øe e mxku dk e[; mnn'; Hkfe dh mojr[k] ueh ,o enk ljpuk dk cuk; j[kuk gkrk gA lFk gh chekfj;k o dhMk&edkMk l cpko djuk rFkk ikŃfrd l l/kuk l vf/kd l vf/kd ykHk mBkuk gkrk gA e'k:e mRiknu e Hkh bl fl)kr dk viuk;k tk ldrk gA bld vfrfjDr o"e Hkj e'k:e mRiknu dj jktxkj d vfrfjDr volj ikr gkr gA

tyok; vulkj miyC/k e'k:e itkfr;k

Qlyk dk Øe e mxku dh ijEijk dk e'k:e dh [krh e Hkh yx fd;k tk ldrk gA yfdu e'k:e ,d xj ijEijkxr Qly gku dh otg l bl Øe e mxkuk vHkh rd ipyu e ugh vk ik;k gA fd lku doy bl ,d gh _r e mxkr vk jg g rFkk vU; _rvk e e'k:e mRiknu 0;olk; cn dj nr gA tcf d gekj n'k dh tyok; fHkUu&fHkUu idkj dh e'k:e dh [krh d fy; mi;Dr gA ;fn n'k dh tyok; ij utj Mky rk ik;x fd ;gk xe] vkn] 'khrk".k mik".k vkfn idkj dh tyok; fofHkUu ikrk e miyC/k gA bl h idkj tyok; d vk/kkj ij _rvk t l&'khr _r] xh"e _r] o"kk _r] clr _r vkfn dk oxhdj.k fd;k x;k gA vr% gekj n'k e fHkUu&fHkUu idkj dh e'k:e dk Øe e mxkuk lEHko g D;kfd fHkUu&fHkUu idkj dh e'k:e dh of) gr rkieku vko';drk vyx&vyx gA fofHkUu idkj dh e'k:e dh itkfr;k dk mxku gr rkieku vko';drk lkj.kh 1 e n'kk;k x;k gA

okf"kd e'k:e Qly pØ

lkj.kh 1 e fn; x; fofHkUu idkj dh e'k:e itkfr;k dh okuLifrd of) ¼cht Qyko½ o Qyudk; ¼Qyu½ voLFkk d fy; vudy rkiekuk dk n[ku l ;g Li"V gk tkrk g fd e'k:e dk Ńf"e Qlyk dh Hkkfr Qjcny dj pØk e mxk;k tk ldrk gA t l enkuh Hkkxk o de Åpkb ij fLFkr igkMh Hkkxk e 'kjin _r e 'or cVu e'k:e] xh"e _r e xh"e dkyhu 'or cVu e'k:e o f<xjh rFkk o"kk _r e ijkyh e'k:e o nf/k;k e'k:eA

Ikj.kh 1% dN ie[k [kk] e'k:e d fy; vudy rkieku

e'k:e d oKkfud uke	ipfyr uke	vudyre rkieku %fMxh IfYl ; l % ch t Qyko gr	Qyu gr
1- ,xfjd l ckb l ikj l	'or cVu e'k:e	22&25	16&18
2- ,xfjd l ckbVkjfd l	xh"edkyhu 'or cVu e'k:e	28&30	22&25
3- vkfjdyfj ; k i tkfr	Cyd b ; j e'k:e	20&30	25&30
4- yUVhuyk bMkM l	f'kVkd e'k:e	22&27	18&22
5- lyjkVl bfjUt kb	dkcy f<xjh e'k:e	20&30	15&20
6- lyjkVl flyfoyl	f<xjh e'k:e	20&30	22&26
7- lyjkVl flykfjMk	f<xjh e'k:e	20&30	08&20
8- lyjkVl l tkj&dk t	f<xjh e'k:e	25&30	22&26
9- okYofj ; yk okYofl ; k	ijkyh e'k:e	32&36	30&35
10- dyk l kbch bfMdk	nf/k ; k e'k:e	25&35	28&35

mRrj Hkkjr e fofHkUu idkj dh e'k:e dk mxku dk Øe fp=k e n'kk ; k x ; k gA

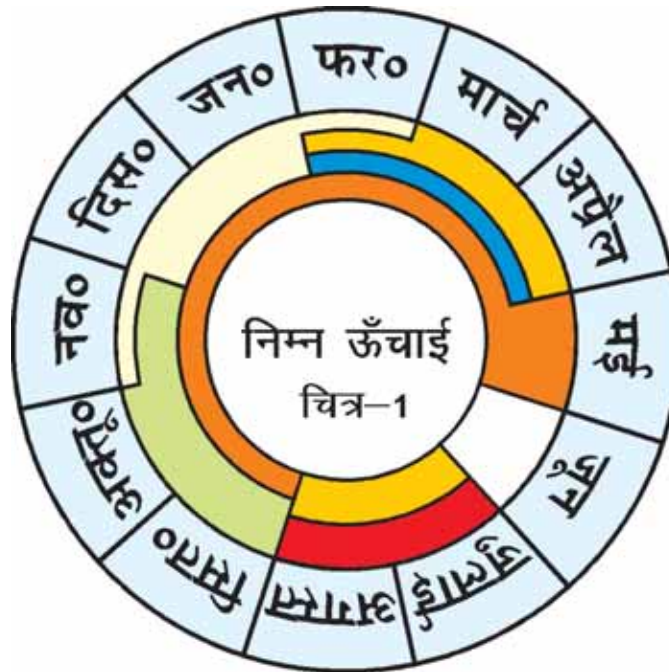
fp=&1 l Kkr gkrk g fd enkuh Hkkxk e 'or cVu e'k:e dk 'kjn _r e uoEcj l Qjoj rh rd] xh"edkyhu 'or cVu e'k:e dk flrEcj l uoEcj o Qjoj l viy rd] dky dupiM e'k:e dk Qjoj l viy rd] f<xjh e'k:e dk flrEcj l eb rd] ijkyh e'k:e dk tykb l flrEcj rd rFkk nf/k ; k e'k:e dk Qjoj l viy o tykb l flrEcj rd mxk ; k tk ldrk gA

eè ; e Åpkb ij fLFkr igkMh LFkkuk e 'or cVu e'k:e dk flrEcj l eksp rd] xh"edkyhu 'or cVu e'k:e dk tykb l vxLr rd o eksp l eb rd] f'kVkd e'k:e dk vDrcj l Qjoj rh rd] f<xjh e'k:e dk ij o" k Hkj] dky&dupiM e'k:e dk eksp l eb rd rFkk nf/k ; k e'k:e dk viy l tu rd mxk ; k tk ldrk g %fp=&2% A

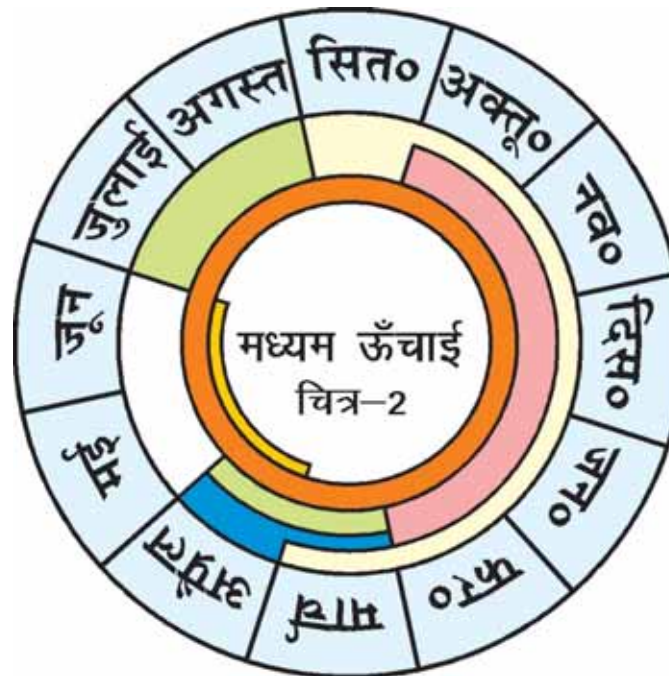
vf/kd Åpkb ij fLFkr igkMh {k=k e 'or cVu e'k:e dk eksp l uoEcj rd] f<xjh e'k:e dk eb l vxLr rd rFkk f'kVkd e'k:e dk fnlEcj l viy rd mxk ; k tk ldrk g %fp=&3% A

bl idkj gekj n'k e vyx&vyx rjg dh tyok ; oky LFkkuk e _r vulkj fHkUu&fHkUu idkj d e'k:e Qly pØ viukdj lky Hkj e'k:e dh [krh djuk l Hko gA lenrVh ; jkT ; k e o" k Hkj f<xjh e'k:e] ijkyh e'k:e o nf/k ; k e'k:e dk ikÑfrd okrkoy . k e mxk ; k tk ldrk gA iokRrj jkT ; k e 'or cVu e'k:e] f<xjh e'k:e] f'kVkd e'k:e o dky&dupiM e'k:e dk mxk ; k tk ldrk gA eè ; o if'peh Hkkjr e f<xjh e'k:e dk xh"e _r dk NkMDj vU ; l Hkh _rvk e o nf/k ; k e'k:e dh [krh o" k Hkj dh tk ldrh gA

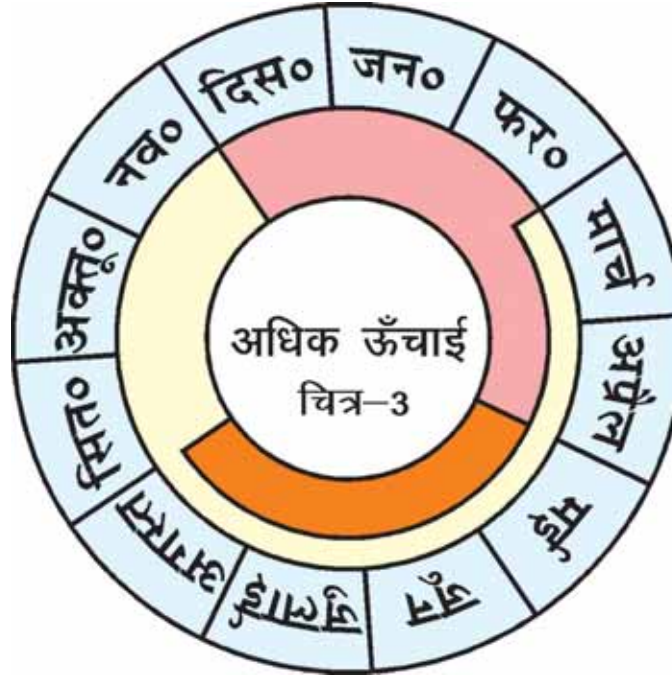
e'k:e mRiknu dh bu ekleh okf"kd ; ktukvk ij vey dj fd lku o e'k:e mRiknd o" k Hkj jktxkj ikr dj e'k:e l vkenuh ikr dj ldr gA , d gh idkj dh e'k:e dh [krh djr jgu l chekfj ; k o dhMk&edkMk dk idki Hkh c< tkrk g] e'k:e Qly pØ dk viukdj budk idki de fd ; k tk ldrk gA l kFk gh n'k d dy e'k:e mRiknu e c<kÜkj dhju e lg ; kx n ldr gA



- 'or cVu e'k:e
- xh'e dkyhu 'or cVu e'k:e
- dky&du piM e'k:e
- f<xjh e'k:e
- ijkyh e'k:e
- nf/k;k e'k:e



- 'or cVu e'k:e
- xh'e dkyhu 'or cVu e'k:e
- f'kVkd e'k:e
- f<xjh e'k:e
- dky&du piM e'k:e
- nf/k;k e'k:e



'or cVu e'k : e
f<xjh e'k : e
f'kVkd e'k : e



[kEc mRiknu e if'k{k.k vfuok;rk o ikflr d lkr

dEikLV o ch t dh x.koUkk d lerY;] if'k{k.k $\frac{1}{4}$ Vfux $\frac{1}{2}$ Hkh egRoi.k gkrh gA if'k{k.k $\frac{1}{4}$ Vfux $\frac{1}{2}$ d vHkko e Qly mRiknu d nkju fofHkUu idkj dh leL;k, mRiUu gk tkrh gA dHkh&dHkh ;g leL;k, bruk fodjky : i /kkj.k dj yrh g fd mu ij dkc ikuk ef'dy gk tkrk g rFkk mRiknd dk Hkkjh ud lku mBkuk iMrk gA vr% [kEc mRiknu 'k: dju l igy if'k{k.k yuk vfr vko';d gkrk gA [kEc mRiknu e ,lh ifØ;kvk dk leko'k g ftUg fdrkch Kku l le> dj dk;kfUor djuk ef'dy gkrk g] fdrkch Kku d l kFk&l kFk 0;ogkfjd $\frac{1}{4}$ ifDVdy $\frac{1}{2}$ Kku Hkh vfr vko';d g tk doy if'k{k.k d nkju gh vft r fd;k tk ldrk gA if'kf{kr gkdj [kEc mRiknu e vku okyh leL;kvk l cpk tk ldrk gA

[kEc mRiknu e if'k{k.k lfo/kk lo= miyC/k ugh gA dN fXu&pu vul/kku o fodkl lLFkkuk e gh [kEc mRiknu e if'k{k.k dh 0;oLFkk gA jk"Vh; Lrj ij n'k d leLr jkT;k d fd lku] cjktxkj ;okvk] fo"K; oLr fo'k"Kk rFkk vU; vul/kku o fodkl dk; l tM 'kk/kdrkvk dk if'k{k.k inku dju dh 0;oLFkk [kEc vul/kku fun'kky;] lkyu $\frac{1}{4}$ fg-i- $\frac{1}{2}$ ij miyC/k gA ;g iR;d o"K fuEufyf[kr if'k{k.k dk;Øe vk;kftr djrk gA

1- d"kd if'k{k.k dk;Øe

;g if'k{k.k dk;Øe [kk l rkj l , l fd lku] cjktxkj ;okvk o ;ofr;k d fy; vk;kftr fd;k tkrk g tk ?kjy Lrj ij [kEc mRiknu 'k: djuk pkgr gA ;g dk;Øe ,d l lrg dh vof/k dk gkrk g ftle fofHkUu idkj dh [kEc dh [krh d ckj e i.k tkudkjH ifDVdy d l kFk nh tkrh gA ;g if'k{k.k dk;Øe g ftle Hkkjr d leLr fgUnh&Hkk"kh jkT;k d 0;fDr;k dk io'k fn;k tkrk gA

2- m|eh if'k{k.k dk;Øe

;g if'k{k.k dk;Øe ,l 0;fDr;k d fy; vk;kftr fd;k tkrk g tk 0;olkf;d Lrj ij [kEc mRiknu dj jg gkr g ;k [kEc mRiknu 'k: djuk pkgr gA ;g jk"Vh; Lrj dk dk;Øe nl fnu dh vof/k dk gkrk gA

3- vrjk"Vh; if'k{k.k dk;Øe

;g if'k{k.k dk;Øe Hkkjr d iMklh n'kk d fodkl o vul/kkudrkvk rFkk [kEc mRikndk d fy, vk;kftr fd;k tkrk gA ;g dk;Øe 15 fnu dh vof/k dk gkrk gA

4- ckg; ifjIj if'k{k.k dk;Øe

mijkDr if'k{k.k dk;Øek d vfrfjDr] bl dUn }kjk vU; jkT;k e Hkh [kEc mRiknu ij if'k{k.k dk;Øe vk;kftr fd; tkr gA fodkl dk; e yx Ijdkjh o xj Ijdkjh ILFkkuk d vujk/k ij fun'kky; d oKkfudx.k ckg; ifjIj dk;Øek e fd l kuk o cjkt xkj ;okvk dk 2&3 fnu dh vof/k dk if'k{k.k inku djr gA

5- ik;kftr if'k{k.k dk;Øe

fiNy db o"kk l dUn o jkT; Ijdkj dh fofHkUu jktxkj o xke fodkl kUe[k ifj;ktukvk e [kEc mRiknu ij fo'k"ky fn;k tk jgk gA le;≤ ij fofHkUu ifj;ktukvk d rgr fd l kuk] efgykvk o ;okvk dk [kEc mRiknu e if'k{k.k nu gr vkonu iklr gkr gA bl vko';drk dk i.k dju d mnn'; l] fun'kky; iR;d o"kk 4&5 ik;kftr if'k{k.k dk;Øek dk vk;ktu djrk gA

vU; if'k{k.k ILFkk;:

[kEc vul/kku fun'kky; (www.nrcmushroom.org) d vfrfjDr fuEufyf[kr ILFkkvk l Hkh if'k{k.k iklr fd;k tk l drk gA

- 1- [kEc ifj;ktuk] m|ku foHkx] pEck?kkV] lkyu $\frac{1}{4}fg-i-\frac{1}{2}$
- 2- bUMk&Mp [kEc ifj;ktuk] pk- Jo.k dekj df"k fo'ofok|ky;] ikyei]j] dkxMk $\frac{1}{4}fg-i-\frac{1}{2}$
- 3- gd ,xk e'k:e fjlp ,o Moyiev ;fuV] ejFky] lkuhir $\frac{1}{4}gfj;k.kk\frac{1}{2}$
- 4- vf[ky Hkkjrh; [kEc mUu;u ifj;ktuk] ikni jkx foKku foHkx] th-ch- iUr df"k ,o ik|kfxdh fo'ofok|ky;] iruxj] m/ke flg uxj $\frac{1}{4}mUkjpy\frac{1}{2}$
- 5- vf[ky Hkkjrh; [kEc mUu;u ifj;ktuk] ikni jkx foKku foHkx] rfeyukM df"k fo'ofok|ky;] dk;EcVj $\frac{1}{4}rfeyukM\frac{1}{2}$
- 6- vf[ky Hkkjrh; [kEc mUu;u ifj;ktuk] ujUn no df"k ,o ik|kfxdh fo'ofok|ky;] dekjxt] Qtckkn $\frac{1}{4}m-i-\frac{1}{2}$
- 7- vf[ky Hkkjrh; [kEc mUu;u ifj;ktuk] ekbØck;ykth foHkx] itkc df"k fo'ofok|ky;] yf/k;kuk $\frac{1}{4}itkc\frac{1}{2}$
- 8- vf[ky Hkkjrh; [kEc mUu;u ifj;ktuk] ikni jkx foKku foHkx] df"k egkfo|ky;] egkRek Qy df"k fo|kihB] iuk $\frac{1}{4}egkj"V\frac{1}{2}$
- 9- vf[ky Hkkjrh; [kEc mUu;u ifj;ktuk] ikni jkx foKku foHkx] bfnjk xk/kh df"k fo'ofok|ky;] jk;ij $\frac{1}{4}NRrhIx<\frac{1}{2}$
- 10- vf[ky Hkkjrh; [kEc mUu;u ifj;ktuk] ikni jkx foKku foHkx] egkj.kk irki df"k fo'ofok|ky;] mn;ij $\frac{1}{4}jktLFkku\frac{1}{2}$

ikjfeHkd [kEc mRiknu

- 11- e'k : e i ; kx'kkyk] Hkkjrh ; m|ku vul/kku ILFkku] glj?kVVk yd ikLV] cxykj ¼dukVd½
12- ikni jkx foKku foHkkx] Hkkjrh ; d'f'k vul/kku ILFkku] i l k] ub fnYyh&110012
13- ikni jkx foKku foHkkx] pn 'k[kj vktkn d'f'k ,o ik|kfxdh fo'ofokiy ;] dkuij ¼m-i-½
14- ikni jkx foKku foHkkx] pk- pj.k flg gfj ; k.kk d'f'k fo'ofokiy ;] fg l kj&125004 ¼gfj ; k.kk½

mijkDr ie[k ILFkvvk d vfrfjDr m|ku foHkkx o d'f'k foKku dUnk l Hkh if'k{k.k iklr dju gr
lid fd ; k tk ldrk gA



[kEc vul/kku fun'kky ;

¼Hkkjrh ; d'f'k vul/kku ifj"kn½

pEck?kkV] l kyu&173213 ¼fg-i-½

çnÜk egRoil.k lok ;

- loeku rFkk [kk | [kEc" dh fofHkUu çtkfr ;" d ch t
- [kEc mRiknu ij m|fe ;] fd l ku] efgykV] vUrk"Vh ; çf'k{k.kkfFk ;" rFkk ,dy 0 ; fDr ;" d" çf'k{k.k dh lfoèkk
- 0 ; k ikfjd ifj ;" tuk d l : i . k] eY ; kdu rFkk fu"iknu gr lykg
- [kEc d fofHkUu igyv" ij lykg
- foLrkj l fgr ;] fofM ;" fQYe] lykbM rFkk [kEc mRiknu dh fofHkUu rduhdh ;" d Nk ; k fp=
- dEi"LV] dflx lkexh o dEi"LV lÄVd" dh tkp
- [kEc d dhM"] uk'kd" rFkk j"x" dh igpku
- Lukrd"Ükj Nk=" d fy , ifj ;" tuk ;
- [kEc d 0 ; k ikfjd egRo lEcüèkr fof'k"V fo"k ;" ij vulèkku

iLrdky ; lok ;

[kEc vul/kku fun'kky ; dk iLrdky ; fuEufyf[kr lok ; çnku djrk g

- lnhk lok ;
- çy[k" dk forj.k
- lh-Mh- j'e lp lok ;
- çy[k" dh Nk ; k çfrfyfi ; k
- lekpkj i=" e çdkf'kr [kEc lEcüèkr tkudkj

foLrr tkudkj d fy , lEid dj&

fun'kd

[kEc vulèkku fun'kky ;

pEck?kkV] l kyu ¼fg0i0½

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e'k : e Liku inku dju okyh I LFkk, I

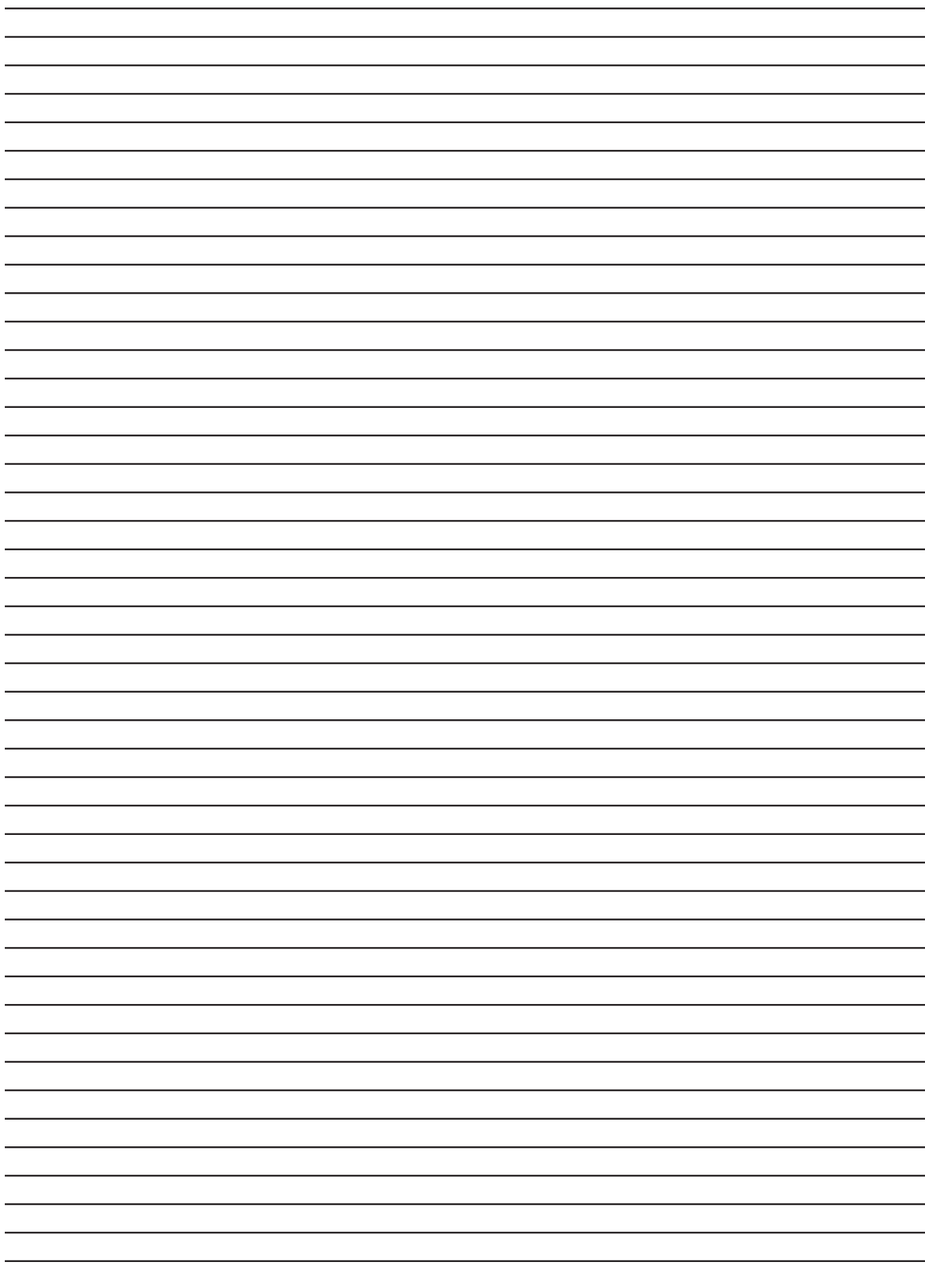
- 1- [kEc vu l/kku fun'kky;]
pEckʔkkV] Ikyu ½fg-i-½
- 2- [kEc vu l/kku i; kx'kkyk]
ikni jkx o dod foKku foHkkx]
Mk- ; 'koUr flg ijekj vk |kfudh o okfudh
fo'ofok |ky;] uk.kh] Ikyu ½fg-i-½
- 3- ikni jkx foKku foHkkx]
gfj;k.kk dʔk fo'ofok |ky;]
fg l k j ½gfj;k.kk½
- 4- [kEc ch t i; kx'kkyk]
m |ku fun'kky;]
dkfgek ½ukxkyM½
- 5- [kEc ch t mRiknu dUn]
dʔk foHkkx] e=h i [kkjh]
bEQky ½ef.kij½
- 6- [kEc vu l/kku dUn]
ef.kij tutkfr fodk l dkikj'ku]
yEQyiV] bEQky ½ef.kij½
- 7- [kEc ch t i; kx'kkyk]
m |ku dkEiyDI] Nkuh dyk]
gkf'k;kjij ½i t k c½
- 8- gfj;k.kk ,xk b.MLVh t dkikj'ku]
e'k : e ;fuV] ejFky]
ft yk&lkuh i r ½gfj;k.kk½
- 9- {kf=; vu l/kku i; kx'kkyk]
I h-, l-vkb-vkj-] Jhuxj
½tEe vkj d'ehj½
- 10- ikni jkx foKku foHkkx]
tokgj yky ug : dʔk fo'ofok |ky;]
t cyij ½e/; in'k½
- 11- dʔk foHkkx] ykye.Mh]
Jhuxj ½tEe vkj d'ehj½
- 12- ikni jkx foKku foHkkx]
Hkkjrh; m |ku vu l/kku I LFkk]
gljʔkVVk yd ikLV] cxykj ½dukVd½
- 13- e'k : e fj l p yckjVjh]
ejpd] ikLV&jkuhiy]
if'pe fl fDde] ½f l fDde½
- 14- ikni jkx foKku foHkkx]
mMh l k dʔk ,o i k |kfxdh fo'ofok |ky;]
Hkou'oj ½mMh l k½
- 15- ikni jkx foKku foHkkx]
xk-c-i- dʔk ,o i k |kfxdh fo'ofok |ky;]
i ruxj] m/ke flg uxj ½mUkjkpy½
- 16- ikni jkx foKku foHkkx]
rfeyukM dʔk fo'ofok |ky;]
dk;EcVj ½rfeyukM½
- 17- I {e t ho foKku foHkkx]
i t k c dʔk fo'ofok |ky;]
yf/k;kuk ½i t k c½
- 18- ikni jkx foKku foHkkx]
egkj k.kk i rki dʔk fo'ofok |ky;]
mn; i j ½jk t LFkk½

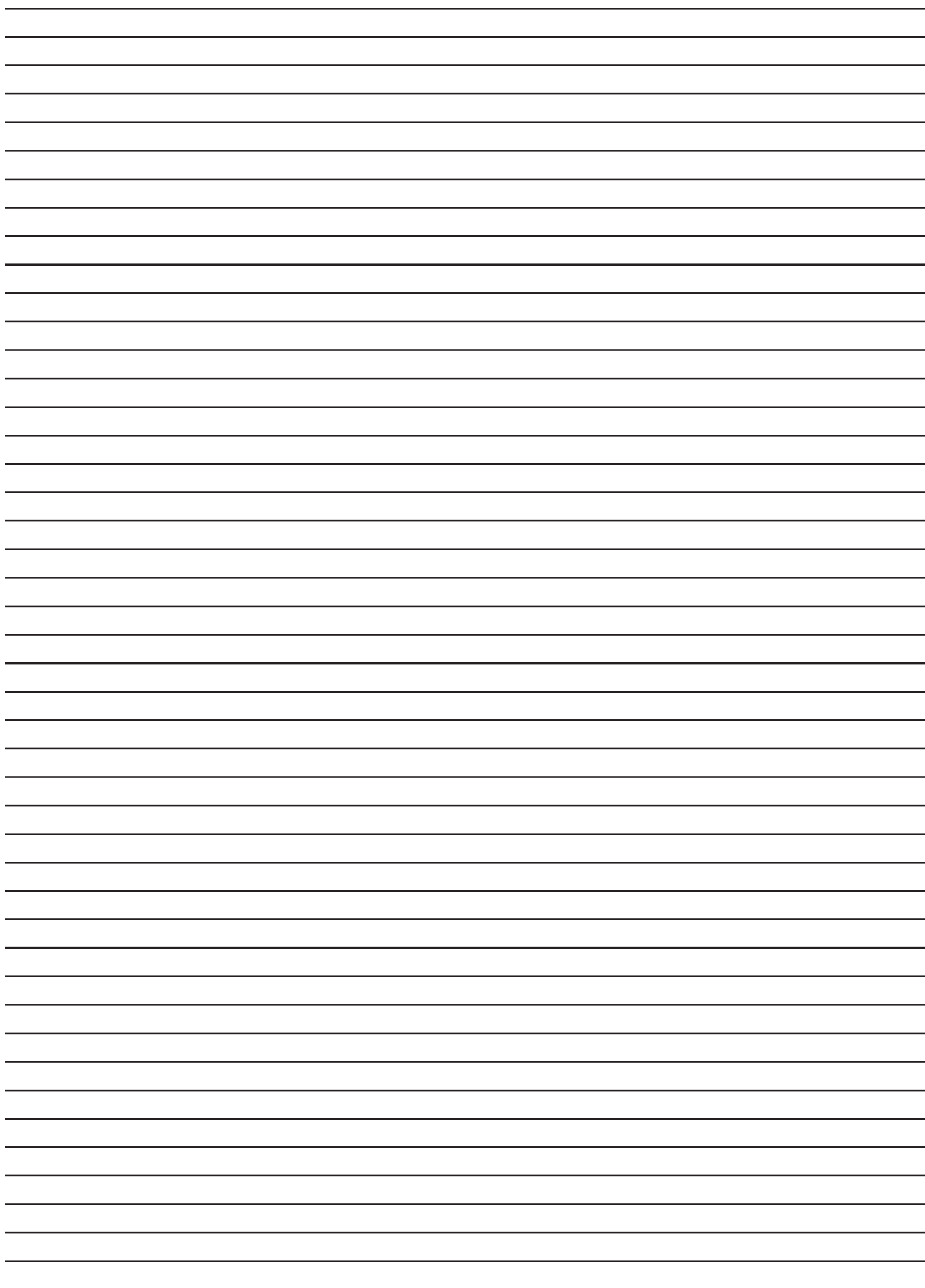
ikjfeHkd [kec mRiknu

- 19- ikni jkx foKku foHkkx]
egkRek Qy df"k fo|kihB]
i.k $\frac{1}{2}$ egkj"V $\frac{1}{2}$
- 20- ikni jkx foKku foHkkx]
bfnj k xk/kh df"k fo'ofok|ky;]
jk;ij $\frac{1}{2}$ NRrhIx< $\frac{1}{2}$
- 21- e'k:e ikMD'ku de&Vfux&IVj]
m|ku fun'kky;]
vij f'kykx $\frac{1}{2}$ e?kky; $\frac{1}{2}$
- 22- m|ku foHkkx]
ifcyd xkMU l] gnjkckn&500001
- 23- Liku ikMD'ku ;fuV]
m|ku foHkkx] Hkou'oj $\frac{1}{2}$ mMh l k $\frac{1}{2}$
- 24- e'k:e MoyieV lUVj]
ih&lDVj] fudV jkt fuok l]
ikLV&bVkuxj] m|ku fun'kky;]
 $\frac{1}{2}$ v:.kkpy in'k $\frac{1}{2}$

- 25- ikni jkx foKku foHkkx]
pn 'k[kj vktkn df"k ,o ik|kfxdh fo'ofok|ky;]
dkuij $\frac{1}{2}$ m-i- $\frac{1}{2}$
- 26- cxxokuh ,o ,xk QkjLVh fjlp ikxke]
Hkk-d-vu-i-] fjlp dkEiyDI Qkj bLVu jhtu]
lyk.M] jkph $\frac{1}{2}$ >kj[k.M $\frac{1}{2}$
- 27- vkb-lh,-vkj- fjlp dkEiyDI]
vkYM xkok] xkok&403402
- 28- m|ku foHkkx]
yky cxx] cxykj $\frac{1}{2}$ dukVd $\frac{1}{2}$
- 29- Liku yckjVjh]
m|ku foHkkx] tky/kj $\frac{1}{2}$ itkc $\frac{1}{2}$
- 30- ikni jkx foKku foHkkx]
fo/kku pUn df"k fo'ofok|ky;]
ekguij] ukfn;k $\frac{1}{2}$ if'pe cxyk $\frac{1}{2}$







भा.कृ.अनु.प.—खुम्ब अनुसंधान निदेशालय

(भारतीय कृषि अनुसंधान परिषद)

चम्बाघाट, सोलन—173213 (हि.प्र.)

राष्ट्रीय खुम्ब अनुसंधान केन्द्र द्वारा प्रदत्त सेवायें :—

- खाद्य खुम्बों के शुद्ध संवर्धन
- खुम्ब की विभिन्न प्रजातियों का उत्तम बीज
- खुम्ब उत्पादन पर किसानों तथा उद्यमियों के लिए प्रशिक्षण
- स्पान प्रयोगशाला तथा खुम्ब उत्पादन इकाई स्थापित करने हेतु सलाह
- खुम्ब की खाद तथा केंसिंग के नमूनों की जांच
- खुम्ब की बीमारियों तथा कीड़ों के प्रबन्धन हेतु जानकारी
- खुम्ब के विभिन्न पहलूओं पर मूल्य के आधार पर साहित्य

प्रकाशनों की सूची

क्र.सं. शीर्षक	मुल्य(रुपयों में)
1. कल्टीवेशन टैक्नोलोजी आफ हाई टैम्परेचर टोलरेंट वाइट बटन मशरूम (एगरिकस बाइटॉर्किसे)	30.00
2. मशरूम स्पान प्रोडक्शन एण्ड इन्फ्रास्ट्रक्चर रिकवायरमेंट्स	30.00
3. फार्म डिजाइन फार वाइट बटन मशरूम कल्टीवेशन	50.00
4. व्यवसायिक बटन खुम्ब फार्म की संरचना	30.00
5. इन्सेक्ट, माइट एण्ड नेमाटोड पेस्ट्स आफ मशरूमस एण्ड देअर मैनेजमेंट	20.00
6. पोस्ट हारवेस्ट टैक्नोलोजी आफ मशरूमस	50.00
7. डि—सिज एण्ड कम्पिटिटर मोल्ड्स आफ मशरूमस एण्ड देअर मैनेजमेंट	40.00
8. मशरूम रेसिपीस	30.00
9. कल्टीवेशन आफ पैडी स्ट्रा मशरूम	20.00
10. मैनेजमेंट आफ स्पेन्ट मशरूम सबस्ट्रेट	20.00
11. फ्रंटियरस इन मशरूम बायोटेक्नोलोजी	200.00
12. पुआल मशरूम उत्पादन	30.00
13. फलेमूलिना वेल्यूटाईपस, द क्यूलिनेरी मेडिशनल विन्टर मशरूम	20.00
14. स्पेंट मशरूम पोषाधार का प्रबन्धन	20.00
15. रिशि (गैनोडर्मा) गुण एवं उत्पादन	20.00
16. मशरूम कल्टीवेशन, मार्केटिंग एंड कंसप्शन (कलर्ड)	250.00
17. मशरूम कल्टीवेशन, मार्केटिंग एंड कंसप्शन (ब्लैक एंड व्हाइट)	100.00

- उपरोक्त प्रकाशनों की खरीद हेतु आपको राशि केवल डिमॉड ड्राफ्ट द्वारा भेजनी है। डिमॉड ड्राफ्ट **आइ.सी.ए.आर. यूनिट एन.आर.सी.एम.** के नाम से होना चाहिए तथा यह **स्टेट बैंक आफ पटियाला, सोलन** में देय हो। ड्राफ्ट निम्न पते पर भेजें। **निदेशक, भा.कृ.अनु.प.—खुम्ब अनुसंधान निदेशालय, चम्बाघाट, सोलन—173213 (हि.प्र.) भारत**
- डाक खर्च / 25 रुपये प्रति पुस्तक है। छ : से ज्यादा पुस्तकें मंगाने पर डाक खर्च 150 रुपये होगा।
- किसी भी जानकारी के लिए कृपया सम्पर्क करें :—

निदेशक

भा.कृ.अनु.प.—खुम्ब अनुसंधान निदेशालय, चम्बाघाट, सोलन—173213 (हि.प्र.)

दूरभाष :— 01792—230451, 230767, 230541 (विस्तार—101); **फैक्स :—** 01792—231207

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