esI I Z egkohj feujYl

ckDI kbX/ ekbXl

dk

I kjk'k

jSihM bZ vkbZ ,- fjikV/Z
(Rofjr i;Zoj.k I ek?kkr fu/kkj.k
ifronu)

xkdo&nynyh] rglhy & do/kkZ
(66] ekyoh; uxj] ftyk%ngkZ & N-x-)

I kȷk'k

jᶘhM bℤ vkbℤ ,- fjikᶊℤ
(Rofjr i;ℤoj.k I ek?kkr fu/kkȷ.k
ifroɲu)

l kjkál

1-0   iÅrkouk

el l l egkohj feujy] Jh dkfr ikj[k th dh ,d LokfeRo l Å Fkk gÅ bl l Å Fkk ds vu| kj NŸkhl x<+jkT; ds xk kp nynyh] ftyk do/kkl ea ckDl kbl/ ds [kuu ds fy;s iÅrkfor gÅ bl [knku dh mi;kx vk;q 30-12-2002 l s 29-12-2032 o"kl gÅ

bl ifj;kstuk ds vk rxÅr xk kp nynyh] ftyk do/kkl NŸkhl x<+ ds ckDl kbl/ vkaj ds [kuu ds fy;s 38-211 gDVs j Hkfie ea ckDl kbl/ dk mR[kuu dk;l djuk pkgrh gÅ bl [knku dk mRiknu vuqekfur 4]50]000 Vu ifr o"kl gÅ

bl [knku ds mR[kuu dk;l ds }kjk lk;kj j.k ikaku dk;l grq el l l egkohj feujyl ~us ''kh?kz okrkoj.k iÅkko fu/kkj.k v/;;u grq el l l fdr;sfV0g bUok;ks l foll l] Hkksiky dks vf/kdr fd;k gÅ

2-0   LFkku

NŸkhl x<+ ds xkÅl &nynyh] ftyk& do/kkl ea fLFkr bl [knku] tks fd Vksiksk khV ua 64F/3 (isÅkuk 1%50000) l keku in dk&

vk{kkák	%	20^0 23* 40**	N
nákkák	%	81^0 11* 40**	E

3-0   lkfjogu

;g [knku nqxzl gÅM DokVj l s l ehi fLFkr gÅ do/kkl jkT; ekxzl l s 125 fd-eh- dh nqjh ij fLFkr gÅ vU;Fkk do/kkl l s ckjyok rd dh Mkej jkM+20 fd-eh- rd dh nqjh ij gÅ bl [knku ds l ehi ckjyok l s nynyh xka] rkjxka l s yxk gqvk gÅ] tks fd WBM l s yxk gqvk lkQ ekl eh jkM+ l s 40 fd-eh- dh nqjh ij gÅ ;g [knku xka nynyh l s nf{k.k fn'kk ea fLFkr gÅ

4-0   okrkoj.k iÅkko fu/kkj.k dk dkj.k

bI [knku dk Ik;kbj.k iHkko tksfd fu/kkjr gSmI ds LFkku ij vU;Fkk muds
g;eu IS/ye/V] eS/tsykfidy dUMh'ku] ,fifc;/V ,;j DokfyVh] okVj ckMhtt}
,xhdYpjy ,oa QkjLV y/M bR;kfnA

vf/kdrj bI [knku dsfoijhr iHkko dksiHkkfor rFkk bu iHkkokadsfuokj.k gsrq
iS|kfxdh fu;a.k vk/ IHkh idkj dh Ik;koj.k idk dh 0;oLFkk bI [knku ds
mR[kuu }kjk idk djuk gSA bI fcUnq dks/;ku eaj[krsgqs'kh?kz okrokj.k iHkko
fu/kkj.k 'kh?kz okrkoj.k fu/kkj.k ifrosnu dFku dh r§kjh ,oa bI
dFku dk vkKkuprh/vkpj.k NŸkhIx<+ Ik;kbj.k Ij{k.k eMy CECB vFkok
Ik;kbj.k ,oa ou e=ky; MoEF] ftIds }kjk bI [knku dk fudkIh dk;Jr
dj fn;k tk;A

5-0 ifj;kstuk o.kLu

5-1 Hku&foKku

bI {ks= dsHku&foKku ds tkudkjh ds varxr MUdu ykok dk cgko yS/kjkbI/ dh
ijr fyFkkekfitd feVVh xg.k djrh gS$ vk/ bI ckMIkbI/ tku tksfd yS/jkbI/
dh #ijIkk r§kj djrh gSA MUdu ykok dk cgko tksfd f{kfrt ds IekUrj gkrk
gS$;g ge$kk nh?kzdk; gkrk gSA bI {ks= eackMIkbI/ dk fodkI iR;{k gS$ bI
IkBkj e=vFkok vU; mit bI {ks= e=vR;r vkIku gSA

;g vuekfur gSfd mPp Jskh dk ckMIkbI/ fuf'pr gh nf{k.k vk/ ip/ (N &
E) e/; Hkkx ij] tksfd fdIh idkj dh VksikxzkQh IstU/ughagSA bI Åi/h
Iery Hkfie dse/; Hkkx eade ijUrq/;ku ;kX; y?kdjj.k oY;qfI fydk dh gSA
bI Hkfie eaVkbI/fu;e vkMIkbM dh ek=k cgrr ek=k eabI MUdu dh ijr
dh Åijh Irg ij gkrk gSA

bI {ks= dk LV/hxfQdy fICoNI fuEuku|kj g&

fyFkksykfÉth	fFkDuÉ à (m)	fMfLdi’ku
feVVh	2.00	MIV xs xfMax MkmuoMÉ bÉVwyÉVjkbÉV I kÉMÉy
mijh yÉVjkbÉV	1.00	filkfyfVd] ymÉt+ vkÉ§ bÉUM;jÉVÉM] Ldkfj;f’;I dÉUvÉÉI vkÉ§ ckÉÉIkbÉV ds cMÉ VvdMka vkÉ§ ckÉÉIkbÉV ijrksafeyrk gÉ
ÇkÉÉIkbÉV	3.5 - 4.5	vf/kDrj filkfyfVd dMÉ vkÉ BksÉ] vf/kd ?kuRo okyk yÉVjkbÉV ofÉI dÉyj vkÉ§ fiVÉM] fMLIysÉ 'ÉkMLk vkÉÉ ykbÉV xs vkÉ§ xaykch jÉxA
fupyk yÉVjkbÉV	3.30	vf/kDrj yksdyh mfyfVd vkÉ§ filkfyfVd ekÉMjÉVyh gkMÉ Vw IkÉÉÉDV] oehdÉyj vkÉ§ dkfj;f’;I] ikjI vkÉ§ 'kkÉ MkdÉj vkÉÉ yky] ihyk vkÉ§ ckmu dyjA
fyFkkekrtÉ	15.30	ykbÉV xÉ fiyh vkÉ§ yky feVVh] yÉfeuÉVM yÉfeukbÉ bEijfI LVÉV vkÉ§ gkbyh ikjI A
VÉ	0.50	ofÉMÉ ,V nh dkÉÉÉVÉV foÉk nh fyFkkekrtÉ ÇkÉykÉM MkmuoMÉ ck, QÉk vÉUvYVMÉVÉ

bÉ {ks= dsyÉVjkbÉV fMikÉftÉV efÉdkyk jÉÉt ghy dk ,d e/; {ks= dgykrk gÉ bÉ {ks= ds vuqÉkj ukFkk&oÉÉVuÉ fgLIk dFkbÉVksyk] XuhIkÉI s vkÉ§ LphVkÉÉ pVÉVku ds IkFk] tgkÉÉÉfd IkmFkk&bÉLV rkjÉxkÉ IsyxÉ] fQykbÉVÉ LyÉVÉ vkÉ§ DokVÉtkbVÉ fpYih eÉÉku dsIkFk mÉtkxj gÉ bÉ {ks= dsfupysfgLIsemÉIÉdh.kÉHkkx yerkÉ idkj dh] tksdÉydfj;I fxÉÉVh IÉM LVÉku vkÉ§ fiÉd vkÉ§ IQÉn feVVh ikbÉ tkrh gÉÉ tksfd dukbÉZunh] dÉjdh eÉagÉ ;g cÉIkYVhd MÉÉdu ykok dk cgko tehuh Irg dsIekukUrj gÉÉA vPNÉm mtkxj bÉ MÉ'ku VÉk dÉÉdjk ikuh nynyh ?kkV {ks= eÉaik;sx;sgÉÉÉ cÉIkYVhd VÉk ,d fo"k;ku qÉkj dh tkudkjh yÉVjkbÉV dsmijh

Irg ij gS;sVJDI 25 eh- ekVh yVjkbV dh ijr Is<dk gqvk gSckVDIkbV mijh
yVjkbV dh Irg ij feyrk gSA

5-2   ykdy ft;ksykWth vkSj [kfut ft;ksykWth

ckVDIkbV ,d jkIk;fud ;kSxd gStksfd ikdfrd ncko ds dkj.k cSkYV pVVku
vkSj vkSfIMkbftx dh ifdz;k IsDykbZeV ds{ks= oV vkSj 'ktjd ekSe eagksrk gS
ckVDIkbV dh mRifRr dh ifdz;k vR;r vlk/kkj.k gS bl ifdz;k ds QyLo#Ik
yVjkbV vkSj ckVDWkbV dk fuekZk gksrk gSA buea Is dkbZ,d nVjsea 'kkfey gks
Idrk gSA
ckVDIkbV ,Y;qefu;e dk ,d gkbMkbV vkVDIkbM gS tksfd pVVkukea dh bl
[knku ads VS gksus Is mRiUu gksrk gSA ;s feJ.k nks ;k nks Is vf/kd
gkbMksvkVDIkbM dk tSsfxClkbV vkSj ckekbV gSA ;g ckVDIkbV fMikWtV Is
mRiUu gksrk gSA

ckVDIkbV ,d jkIk;fud ;kSxd cSkYV pVVku dk [kfut gS IekU;r% [kfut
iBkj dsÅijh Irg IsyxHkx 1 Is 3 eh- dh xgjkbZea ik;k tkrk gSA nynyh
{ks= dk ckVDIkbV Hkh blh rjg dk gS yfdu bl {ks= dh ckVDIkbV J[kyk nks
VqdM+ea forfjr gSA dN Hkkx ;gka ijrksea gh feyrk gSA

ckVDIkbV [kfut ds Irgka ds chp ea nWjs [kfut tSs syVjkbV cgqrk;r ea feyrs
gSA ckVDIkbV dh ijr mIds jax]vkdkj]?kuRo ds vk/kkj ij n[kh tkrh gSA vPNh
DokfyVh dk ckVDIkbV gYdsjax dk vf/kd ?kuRo dk gksrk gSA

1. FeVVh yky vk§ fiykiu] fFku eVy] ekLVyh ,clVA

2. Y§VjkbV/ ykyiu fiyk] ikjl Ifie Bksl ckWDIkbV/ ckYMIlds IkFk de vWW;euk ckWDIkbV/ dscMs-VudMA

3. vWW;fiefu;e yky vk§ IQsn iVVh] dMk+ vk§ Bksl yS/jkbV/

4. ckWDIkbV/ vf/kDrj Bksl Is de Bksl] euyk;e] IQsn cSkuh] xf;'k] flesV/ jx] filkfyfVd ,V lysI sI

5. Dyss Euyk;e] IQsn vk§ xsykchiu IQsn lykfLVd ckWDIkbV/

6. fyFkksekftbd xs} ihykyb'k] cSkuh] euyk;e] lykfLVd DysbEijfo;I] flfyf'k;I vk§ cgsfr de yfseuVM

7. clkYVZ dMk+] Bksl] gjk] xsjs dk] ofl dsyj

5-3 fjtosZ

IR;kfir Jskh
dsy {ks=Qy 2]12]400 M^2
[kfut dh eksVkbZ 2-0 m
ckWDIkbV/ fMiksftV dk ?kuRo 212400 X 2 = 424800 M^3
ckWDIkbV/ dk fjtosZ 424800 X 2 = 849600 Vu

[kuu ;ksX; Jskh
dsy {ks=Qy [kuu ;ksX; 1]15]100
ckWDIkbV/ fMiksftV dh eksVkbZ 2-0 m
ckWDIkbV/ fMiksftV dk ?kuRo 115100 X 2 = 230200 M^3
ckWDIkbV/ fMiksftV dk fjtosZ 230200 X 2 = 460400 Vu

5-4 vuqekfur [knku dh vk;q

bI [knku dh vuqekfur vk;qmRiknu vk§ vkuso kyso"kkaij fuHkj djrh gA bI mR[kuu dh ifdz;k ds vuqlkj bI [knku dk mRikdnu 4]00]000 Is 4]50]000 Vu ifr o"kZ gA tksfuHkj djrk gSekdaV dh ekx ij] bI [knku dh mi;ksxh vk;q 8 o"kZ gA

5-5   ekbZun; ifdz;k

;g vuqe j.k fd;k x;k gS fd vkojcMLu dh ekVkbZ NkSh gA bI {ks= dk fMikffVt vkj bI lery Hkkfe dk fMikffVt ekmaV upj dk g§ rFkk mIscgqr gh vklkuh Is vkojcMLu dh lgk;rk Is gVk;k tk Idrk gA
bI {ks= dk fyl le; dk vkoj cMLu nkscUpkaemfuEukuqlkj g&

b;j	vkoj cMLu cØp		ckØ lkbZ cØp	
	Uh	gkbZV	Uh	gkbZV
1st	1	1.5m	1	2.0m
2nd	1	1.5m	1	2.0m
3rd	1	1.5m	1	2.0m
4th	1	1.5m	1	2.0m
5th	1	1.5m	1	2.0m

5-6   mRikdnu dk iLrkfor jV

[knku dsiwkZfodkl dslk'pkr~bI [knku dk mRikdnu yxHkx 4]50]000 Vu ifr o"kZfcdh ;kX; gksxkA

5-7   yksfMax

I Hkh [kfut dk ifjogu Vkyh@Vd ds mi;kx Is var rd fd;k tk;xk A vkojcMLu dks gVkdj ,d Iqu'fpr txg ij j[kk tk;xkA mI h idkj ;s,d LFkku Is gVkdj mi;kxh txg ij yhI ckmUMh dsLFkku ij tek dj fn;k tk;xk A

5-8   VHffyx @Vd ikVZ

[kfut dks vkdkj vkSj izdkj ds vk/kkj ij vyx fd;k tkrk gS rnmijkar vPNs
ckDI kbZ ifjogu fd;k tkoxk A

5-9   ekbØuax e'khujh vkSj bD;wiesaV

t¨ k fd izZeacrk;k x;k fd ckDI kbZ [kuu vkiudkLV ifdz;k dsek/;e Is
fd;k tk;xkAbl fdz;k ds fy;sfdl h cMs+vkStkj dk mi;ksx ughagSA tks e'khujh
bl miyC/k rFkk mi;ksxh gSbl [knku dsfodkl grqfuEukud kj gS%&

1.   ,;j dEiszj vkWZ 250 cfm dSsifl Vh   02 no
2.   dEiszM ,;j vkWj¨VM tSd gsej Mhy   04 no.
3.   iksVZcy exsftu vkWZ 500 dSsifl Vh   01 no
4.   ,DI lykMj 100 'kkSVl   02 no
5.   fVilz vkWZ 10 Vul dSsifl Vh   10 no
6   ,DI doVj de ykMj   02 no

5-10   ckSM CykfLVax iØkehVj
bl [knku dk mR[kuu ifdz;k LWkky Ldsy eagS rFkk ,ojst mRiknu bl [knku
dh 4]00]000 Is 4]50]000 Vu ifr o"kZgS Hkfo"; eabl [knku dk mRiknu Hkh blh
jUt eagS&
        cMZu   :   0.9 m
        Lifl ax   :   1.00 m
        MSRFk vkWZ Mhy gksy   :   2.0 m
        Mk;feVj vkWZ CykLV gksy   :   32-34 mm
        pktZ ij gksy   :   500 gm – 600 gm vkWZ

                                             Lifky tsyVhu vykWxfoFk
                                             MSkuVj vkSj ,fMDoV yFk vkWZ
                                             lQVh

ikoj QDVj   :   10-12 t ij dsth- vkWZ
                                             ,DI ykfl o

DokUfVVh vkW2 ,Dl lykfl o ij gksy   :   20 kg lkj jkmUM Qksj 40 uh
                                                   20&30 m vkW2 lQVh Q;wt+

iLrkfor gS fd Mhy gksy dh xgjkbZ 2-0 eh- vkSj cPp dh yEckbZ 1-5 eh- gSA
CykfLVx mlh CykLVj lsfd;k tk;sxk A tksDokfyQkbZ gksvU;Fkk ftl ds ikl
CykLVj lfVfQdsV gks lrdrkiwoZd CykfLVx vkSj oSV Mhfyx lsmMuskokys iRFkjka
ij fu;a.k j[kdj fd;k tk;sxk A ftll sfd CykfLVx dsnqikkko vklikl ds
df"k Hkfe ij uk gksaekgokoj mi;ksfxd yxHkx 300 fd-xzke ls 150 rd lj{kk
gsrq vU;Fkk 2000 uEcj ls 5000 rd dsMSVksuVI Z gSA

5-11   ekbZu Msust

;g [knku {k= ,d Vhyk ds : lk eagSA]bl {k= ls mijh Hkkx vkSj <yku ds
vuq lk gSA blfy, bl fMikIWtV ds: lk dk ly;;wtksfd ,fyoSV gS20 eh- ls
vkSj Hkwury rkfydk 25 eh- ls 30 eh- rd {k= eagSA]fdllh Hkh idkj dk flist bl
ifdz;k eaughgSA vkSj uk gh fdllh idkj lsflist okVj dk Jkr bl [knku {k=
eaughgS lp; gvk ckfj'k dk ikuh bl [knku eabDclBk gksrk gSA ml dk
mi;ksx xhu cYV dsfodkl eafd;k tkrk gSA

5-11   o"kZokbZ~fodkl
vkxsikWb o"kZgsrq o"kkkuqdkj cWDlkbV dk mRikdnu fuEukuqlkj gSA

;g fu'fpr gSfd VkSVy ikWMD'ku ekdV dh vko';drk ij fuHkkj gSbl MhikIWtV
dh lajpuk bl idkj gSftll sfd 4]50]000 Vu ifr o"kZdk mRikdnu bl [knku
lsfudkyk tkuk gSA tc bl [knku dk fodkl iwxZ: lk lsgkxsk rksfoxr vkus
okys ikWb o"kkkeavU;Fkk bl [knku dksxhV dj fn;k tk;xkA ekbfux ykst ds
fy;src ;g [knku dsmRikdnu lsekdV dh vko';drk dsvuq lk gksxkA
 vuqj;Ir inkFkkádk j[kj[kko

bu inkFkkádsj[kj[kko dsfy, vkbZch-,e-)kjk vuqeksfnr ekbfux lyku eafn;s
x;s funskuká dsvuq kj fd;k tkoxk A iFke ikp o"kkárd yht ckÅMh dscfj;j
tku eabl dksj[kk tkoxk A

b;j	iksMD'ku vkWQ ckWDI kbV Vksj (in MT)
1st Year (2005-06)	100,000 T
2nd Year (2006-07)	150,000 T
3rd Year (2007-08)	200,000 T
4 Year (2008-09)	300,000 T
5 Year (2009-10)	450,000 T

5-12   t:jh IIk/kukadh vko';drk

[kuu dk;l djus grq fu;ekund kj tks Hkh IIk/ku vko';d gkxs A crk;k tkoxkA

b;j	DokfUVVh vkWQ olV	Lisl fjDok;MZ	ykxdsku
Ist	7416 m3	2158 m2	LkkmFk bLVuZ LkbM vkWQ fyt+,fj;k
IInd	5140 m3	1446 m2	LkkmFk bLVuZ LkbM vkWQ fyt+,fj;k
IIIrd	19870 m3	4430 m2	LkkmFk bLVuZ LkbM vkWQ fyt+,fj;k
IVth	18720 m3	7620 m2	LkkmFk bLVuZ LkbM vkWQ fyt+,fj;k
Vth	54430 m3	12920 m2	LkkmFk bLVuZ LkbM vkWQ fyt+,fj;k

5-15 ifj;kstuk ykxr
bl ifj;kstuk eadqy 47 yk[k :Ik;ka dh vko';drk gksxh A

iksstDV	,LVhesVM dkWLV bu ySd vkWQ #Ik;s
ekbfuax vkWQ ckWDI kbV	**Rs. 47.00** yDI

5-16 fctyh ykbu
fctyh dh ifrZ NRrhI x<+fo|r ckMZ I s dh tkoxh]tksfd nynyh xe I s Vi fd;k tkoxk A
5-17 ikuh dh ifrZ

ikuh ec[; r% I Mcd ij fNMcdko ,oa/ky mRI Ztu dks jksdus ds fy, fNMcdko]ihus dh vko';dk dh ifrZ]lyko/ku]vFkok xbu cYV ds fy, bLreky fd;k tkoxk A bI dk ec[; Jksr vUMjxmM ikuh gksxk A

okVj cSyd vkWD ekbfuax iksttDV

iks I	DokfVVh fjDok;MZ (bu fyVI Z)	VkS/y
a) ekbLu I kbV		
ekbIuax vksijsku vkS MLV Lisku vkSj xbu cYV	1000.00	1000.00
b) Mke£fVd		
MNUfdx vkSj okf'kx	600.00	600.00
VkS/y (A + B)	**1600.00**	**1600.00**
iks I	DokfVVh tSujSVM (bu fyVI Z)	VkS/y
c) ekbLu I kbV		
ekbIuax vksijsku vkSj MLV Lisku vkSj xbu cYV	Nil	Nil
d) Mke£fVd		
MNUfdx vkSj okf'kx	300.00	300.00
VkS/y (C + D)	**300.00**	**300.00**

5-18 ifjogu

lMd ekxZ lscWDlkbV dk ifjogu fd;k tkoxk A

6-0   0krZeku lk;kbj.k

6-1   ekS e

bl {ks= dk ekS e o"kZ __rq dksNkkMdj vf/kdre lw[kk jgrk gSA rhuka __rqvka dks
,d ntsl sfcYdy vyx ns[kk tk ldrk gSA xh"e __rqQjojh lstw rd]
o"kkZ __rqe/; tw lsflrcj rd rFkk 'khr __rqvDVwcj lstuojh rd eglw
dh tkrh gSA bl {ks= easyxHkx 600&800 fe-eh- o"kkZns[kh x;h gSA vf/kdre o"kkZ
tw lsvxLr ekg eagksrh gSA
        xehZ   U;wure 8⁰c
        vf/kdre 39⁰c
fjdkWM fd;k x;k gSA tuojh ekg lclsBMk vkSj ebZ lclsxeZeghuk lkk;k x;k
gSA

vkxrk

o"kkZ __rqeavf/kdre vkxrk rFkk xh"e vkSj 'khr __rqeagok eadkbZ vkxrk ugha
ns[kh x;h A vf/kdre vkxrk 28 %]U;wure 12 % ns[kk x;k A

 ok;qxfr rFkk mldh fn'kk

lolZdslke; gok dh fn'kk mRrj lsnf{k.k &imZ tkslicg rFkk 'kke dslke; lkk;k
x;k gSA vf/kdre gok dh xfr 8fd-eh- @?kaVk ukik x;k A
;g MkWk fjUV'y efV²;ka ykksftdy ukxij lsiklr fjikkM dsvk/kkj ij gSA

6-2   ok;q DokfyVh

gok ea inkk.k tk|bus dsfy, fyt ,fj;k ds vkl ikl 6 LVsku ij ekW fd;k x;k
A ftl l s fuEufyf[kr ifj.kke lkeusvk,WA
fn, x, ifj.kke rFkk NRrhlx<+fuokj.k eMy lsiLrr rkfydk fuEu gS%&

ok;q ekiu ifj.kke ,oa dsiznq-cks dk rYukRed rkfydk

	A1	A2	A3	A4	A5	A6	A7	CPCB Norms	
								Indl. & Mixed used area	**Resident ial & Rural Area**
o"kk Jrq ds ckn (Sep2005-Nov 2005)									
SPM Concentration									
Minimum	104.0	98.0	87.0	89.0	83.0	86.0	82.0		
Maximum	128.0	120.0	112.0	119.0	110.0	109.0	117.0	500	200
Average	115.2	109.1	99.1	102.2	98.2	99.8	98.8		
RPM Concentration									
Minimum	24.4	21.4	20.4	20.0	21.4	21.2	17.2		
Maximum	44.7	43.5	41.0	41.4	39.8	38.5	37.1	150	100
Average	34.3	33.0	30.0	30.8	29.8	30.1	29.9		
SO2 Concentration									
Minimum	5.6	4.9	4.5	4.8	4.1	4.4	4.4		
Maximum	7.7	7.3	6.9	7.0	6.8	6.7	6.6	120	80
Average	6.5	6.1	5.5	5.7	5.6	5.5	5.5		
NOX Concentration									
Minimum	8.2	7.1	6.2	6.6	6.1	6.6	5.3		
Maximum	14.9	16.7	9.5	9.6	9.7	9.0	9.2	120	80
Average	9.7	9.5	7.7	8.0	7.7	7.7	7.6		

6-3   /ofu rhork

/ofu dh rhork dbZ txg ukih x;h ftll s ;g irk pyk fd /ofu Lrj
NRrhlx<+fuokj.k eMy)kjk fn, x, Lrj ls de gA /ofu dk e[; L=kr
]vkokxeu ;k xkfM+;ka dk vkokxeu ls gSA

6-4   okVj DokfyVh

bl {ks= esa ikuh fudkyus dk L=kr e[;r%pkikdy rFkk uydi gS ikuh dh xqkoRrk fuEukuq kj gS&

l£iy dkM	pH	Alkalinity mg/l	TH mg/l	TDS mg/l	CI mg/l
SW1	7.77	196	340	1264	18.6
SW2	7.11	124	396	1688	21.2
SW3	7.16	156	284	1188	22.2

l£iy dkM	PH	Alkalinity mg/l	TH mg/l	TDS mg/l	CI mg/l
GW1	7.25	212	72	208	15
GW2	7.16	194	216	354	28
GW3	7.1	164	68	183	30
GW4	7.26	210	136	96	18.4

6-5   e`nk dh xqkoRrk

bl {ks= esa 6 txgka ls e`nk ds l£iy fy, x, A bl ds ,ukyfll djus ds mijkUr lkk;x x;k fd feVVh e[;r dkyh l syky &Hkkjh gks tkrh gSA

6-6   ¶ykjk vk§ QkmUUk

¶ykjk %&bl ikstDV ds vkl ikl yxHkx 10 fd-eh- {ks= esa LVMh fd;k x;k gS fd ikstDV {ks= esafdl h Hkh idkj ls ofjVsku ughagSbl {ks= dscQjtku esae[;r% ou rFkk df"k Hkfie gSvkl ikl dh igkfM÷ka rFkk <yku esal?ku ou gSbl {ks= esa e[;r% vkej]egok]uhe]ihiy]tke]umej bR;kfn ds o{k gSA bl ds vykok bl {ks=Qy esavius vki mxus okys?kkl rFkk NksVso{k ik,Wtkrs gSA

QkmUk %& ikdfrd :lk ls ik, tkus okys tho t¶sfpfM‡k Lyhflfyi vk§ ykeMh][kjxksk]cmj]bR;kfn ik, tkrs g§]bl {ks= ea dkbZ Hkh foykq;r gkus okys tho ;k trqugha ik,Wtkrs A

6-7   Hkfie mi;ksx

Hkfie mi;ksx dh LVMh bl {ks= ea ekWrk§ ij fd;k x;k A eq[;r %rglhy cQjtksu ,fj;k ebl dsfy, lNll g§ cqd rFkk rglhy ipk;r vkQhl eafeys fjdkMZl ~dk mi;ksx fd;k x;k A dchj/kke fty sdk Hkfie mi;ksx fuEukuqlkj g§A

ou lsvkD{kkkfnr tehu fjl=dk Hkkx 70 % g§ cpk gqvk {ks= vkcknh rFkk df"k {ks= g§A ikuh dsuhpsdh tehu cjlkr rFkk gehZ dsfnukaea cMÔrh g§A IMd dh tehu yxHkkx 1-1 % tks bl {ks= ea vkokxeu dsde lk/ku dk gksuk bfixr djrk g§]dkjtksu eadkbZZMkh txy ugha g§]dsdy 38-211 gÔDVÔj {ks= ls34-35 % ljdkjh tehu rFkk ckdh 35-64 % Hkfie gd dh tehu g§ Hkfiokeeh gd dh tehu eaeq[;r%[krh gksrh g§A

,ljkDlheeV yÔM ;q bu LVMh ,fj;k

yÔM ;q dSVxjh	,fj;k (Sq.km.)	ijlÔV, t
1. ,fXkÔdYpjy yÔM (bfjxÔVÔM + vubfjxÔVÔM)		
2. QkWÔLV ,fj;k		
3. fcYV vi yÔM (yÔM vUMj foyst gVeÔLk)		
4. xÔftx yÔM		
5. oÔLV yÔM (jkWÔdh)		
6. okVj ckWMh		
7. jkÔM		
Total		

6-8   lkekftd]vkfFkd fLFkfr

;g v/;;u dchj/kke fodkl [kM ftyk dchj/kke enfd;k x;k A bl ftysea
xkeh.k vkcknh (83%@tul{;k) cgryk;kr eagSA vuqfpr tutkfr dh
dqy vkcknh bl {ks= enyxHkx 33% gS dchj/kke fodkl [kM endqy vkcknh dk
45%

Hkkx tu'kfDr ds : lk enntZ gSA bl {ks= dh tul{;k dk ?kuRo 218fd-eh-
@oxZ gSA bl {ks= enl?ku tul{;k of/n nj 19 % gS v/;;u ds vuqlkj bl
{ks= dh 92 % vkcknh df"k ;k df"k lslacf/kr Je ij vk/kkfjr gSA vFkkr~
tul{;k dk vf/kdkk'k Hkkx df"k vk/kkfjr gSA
                ,slfVesVM cSlld LVSVfLVDl vkD nh LVMh ,fj;k

1. gkml gkSYMl		2628
2. ikWGysku		14966
esy		7530
fQesy		7436
		9728
3. 'kSM/gy Vkbc		15%
4. fyVjslh jsV		
		54.1%
5. vkDW;qskuy iSVuZ		
(A) esu odZl l		82.4%
(% vkDW VkSVy ikWGyskku)		15.5%
i) dYVhoksVl l (%vkDW VkSVy ikWGyskku)		2.1%
ii) ,xfjdYpjy yslsl l (%vkDW VkSVy ikWGyskku)		2.3%
iii) vnj odZl l (%vkDW VkSVy ikWGyskku)		
(B) eftZuy odZl l		56.4%
(%vkDW VkSVy ikWGyskku)		
VkSVy ofdZx ikigyskku fMQjsV		
(%vkDW VkSVy ikWGyskku)		

                ,seuhVhl bu dchj/kke CykWd

1.	VkSVy ua vkDW foyst	181
2.	,Mdsku	

		iLbejh LdY'I fefMy LdY'I gk;j IS&dUMh LdY'I fMxh dkW;st	174 30 4 1
3.		g&YFk Of I fyVhI gk Wfi VYI Z P.H.Cs & Adl. P.H.Cs dE; quVh g&YFk I &VI Z ICI hM$ jh g&YFk I &VI Z	1 1 1 23
4.		ikfyI LV$kuI	30
5.		ikLVYk Of I fyfV t ikLV vkWQI I VfyxkWQ vkWQI I	41 1
6.		jkM+ iDdk jkM+ dPpk jkM+ foystI duDVM foFk jkM+	181.4 km 121.4 km 100%
7.		bUMLVht+ (1997) ,xhdYpjy cLM ,fuey gLcMh cLM QkWLV cLM dUoD'kuy bUMLVht+	86 180 6 1028

7   iHkko fo'y"k.k

   [kuu fdz;k dk iHkko bl {ks= ds Ik;kbj.k ij ifrdqy iHkko n'kkrk g&A bl nIiHkko dks tkuus dsfy, fofHkkUu vu[kkkuka dh vko';drk g&A

8   iHkko ifj{k.k

xgu Ik;kbj.kh; ekinMka ds vrxhr ifjofrr efVDI i/nfr)kjk x.kukRed ,oa xqkkRed nIifj.kke dks tkuus dsfy, ifj{k.k fd;k x;k g&A Ik;kbj.kh; ifj.kke dks tkuus dsfy, iLrkfor vfrfjDr [kuu Hkw&Hkkx {ks= dk v/;;u fd;k x;k A bl ifdz;k ea ty]ok;q]Hkkfe ,oa Ik;kbj.kh; iz&kkjka dks IfEefyr fd;k x;k A

lk;kbj.kh; dkjd lk;kbj.kh; ekinMkao [kuu ifdz;kvka l s l g l czdk n'kklrs gSA ;g
l g l czdk ykHknk;h gS;k foijhr gS;g vkxsoxhldr fd;k x;kA

iSjkfeVI Z	oV PIU	cSl ykbZu EIU (a)	foFkvkmV EMP EIU (b)	foFk EMP EIU ©	pSt EIU (c-b)	pSt EIU (c-a)
ck;ksyktdy bUok;jUesV	300	195	184.25	197	10.75	2
bUok;jUeVy ikWyyuku	450	343	322	351	29	8
vbLFkfVd	100	77.25	66.25	75.85	9.6	-1.4
g;weu bUVkLV	150	114.75	111.75	127	15.25	12.5
xbMV VkVy	1000	730	684.25	750.85	64.6	21.1

9   lk;kbj.kh; iczdk ;kstuk

9-1   Hkfie dk iquHkkj.k

    Hkfie dk iquHkkj.k dk dk;Z vkovjcMZu dk iquHkkj.k)kjk fd;k tk;xk yVjvkbV
Dyhfiax 0;ofLFkr : lk lsfd;k tk,WA ,oa l eryhdj.k bl rjg fd;k tk;sfd
Hkjko dh Å|bkbZ l Hkh fn'kkvkaea ,d l eku gksA iquHkkj.k fdz;k cUDI kbV dh ijh
ekVkbZ iklr djus rFkk vkbZch-,e- dh vuqefr dslk'pkr fd;k tuk pkfg, A
mijkDr vkojcMZu dk Hkjko [kuu dsrgr fd;k tuk pkfg, A

9-2   gfjr iVVh dk fodkl

o{kkjksi.k ;kstuk dsrgr gfjr iVVh dk fodkl ,dsl{ks= eafd;k tk;xk tgkV
o{kka dh l{;k l?ku (75@750 oxZ ifr o"kZ) gksxh A ;g ikstDV ou lampk dks
c<kus dsfy, dkQh egRooukZ gS ,oa uhps n'kkkZrk x;k gSA fd vkxkeh 5 o"kkaes
fdl rjg ouHkfie dh dk;kbkgh dh tk;xh A

fb;j	u a v kWQ VhI	,fj;k doMZ bu m²	I jokbby jV	ykdśku (7.5m cfj;j tku)
1st	75	750	80%	I kmFkbLVuZbLV
2nd	75	750	80%	I kmFkbLVuZbLV
3rd	120	1200	80%	I kmFkbLVuZbLV
4th	120	1200	80%	I kmFkbLVuZbLV
5th	120	1200	80%	I kmFkbLVuZbLV

9-3   inlk.k fu;a.k ekinM

iLrkfor [kuu ifdz;kvkaea;g ughan'kkZ;k x;k gSfd dk;l;kstuk dsfoLrkj ds)kjk inlk.k dk gkfudkjd eaof/n gkxh A
vr%fuEukfdr ifdz;kvka dsrgr inlk.kdkjh dkjdka dksfu;a.k djus dk iz;kl fd;k tk;xk A
1- /kay dh mRifRr ,oaml ds QSyko dksjkcdukA
2- ok;qngd /kay ds dkj.k mRiUu ok;q inlk.k dksjkcduk A
3- ty inlk.k dksjkcdus ds icak A
4- Hkw&ty inlk.k dksjkcdus ds icak
5- /ofu inlk.k dksjkcdus ds icak A
6- HkwdEiu dksde djus ds icak A

9-4   I kekftd] vkfFkd n'kk dks I qkkjus ds iz;kl

v/;;u {k= ea I kekftd]vkfFkd okrkoj.k ij gkus okys iHkkokks dk Hkh /;ku j[kk x;k gSA bl dkjtku ea dkbZ xke ughagS ,oa iLrkfor ikstDV ,fj;k ea fdlh Hkh foLFkkiu dh vko';drk ughA vFkkr iLrkfor {k= ea I dkjkRed fn'kk ea u dh udkjkRed fn'kk ea fofHkUu dkjdka tS s jkstxkj]vkokI]f'k{kk]fpfdRlk]vkokxeu I qo/kk]rsy miyC/krk]vFkD;oLFkk fLFkfr LoLFk df"k ij iHkko ux.; gSfd ;g iktDV NksVk gS%&

1-bl iktDV I s iktDV ,fj;k ea jkstxkj dh of/n gksxh A

2-bl ifj;kstuk I s yksxka ds lyk;u ea deh vk tkrh gSD;kfd bl ifj;kstuk I s yksxka dks jkstxkj feyxk A

3- bl ifj;kstuk I s f'k{kk dk fodkl gksxk A

4- bl ifj;kstuk I s yksxka ds [kkuiku rFkk jgulgu ea cnyko vkus dh I Hkkouk gSA

5- bl ifj;kstuk I s ikjaifjd [krh ea cgqr vf/kd cnyko ugha gksxk cfYd yksxka dks f'k{kk feyus I s mUur [krh gksxh A