



1kW0 jktsUnz çlkn dsUnzh; d`f"k
fo"ofo|ky;] iwlk]



leLrhiqj & 848125] fcgkj

d`f"k foKku dsUnz] yknk] leLrhiqj&AA



oSKkfud lykgdkj lfefr dh prqZFk
cSBd

çfrosnu ,oa dk;Z ;kstuk

frfFk % 08.08.2023

çxfr çfrosnu % uoEcj 2021 ls tqykbZ

2023

çLrkfor dk;Z ;kstuk % vizSy 2023 ls ekpZ

2024

oSKkfud lykgdkj Ifefr dh f}rh; cSBd esa fy;s x, fu.kZ; dk vuqikyu cfrosnu

oSKkfud lykgdkj Ifefr dh r`rh; cSBd] tks fd 22 vDVwcj] 2021 dks vk;ksfr dh
xbZ Fkh] esa fy;s x;s fu.kZ;ksa dh dk;Zokgh dk C;ksj %

Øekad	vuq"kalk	dk;Zokgh
1.	dLVe gkbfijs ds fy, fdlkuksa gsrq ystj ySaM ysoyj miyC/k djukA	dqy 108 ,dM+ esa d`"kd iz{ks= ¼gluiqj] jkslM+k ,oa flaf?k;k½ ij izxfr'khy d`"kd ds lg;ksx ls ysoyj dj;k x;k A
2.	oSdfYid d`f'k dk;ksZa esa cdjh ,oa erL; ikyu] cksxokuh bR;kfn ij fdlkuksa dks izsfjr djukA	i'kqikyu ,oa cksxokuh fo"k; ij dqy 51 izf'k{k.k dk;ZØe dj;k x;kA ftlesa 1546 fdlkuksa us izfrHkkx fd;kA 2 i'kqikyu d`"kd ,oa 2 cksxokuh d`"kd dks vkWokMZ feyk gSA
3.	uSuks ;wfj;k ds iz;ksx ij vks-,Q-Vh-vk;ksfr djukA	dqy 7 d`"kdksa ds xsgw; [ksr ij vk;ksfr fd;k x;k ,oa /kku Qly esa 7 d`"kdksa ds ogk; ij vk;ksfr fd;k tk jgk gSA
4.	d`f'k foKku dsUnz] yknk esa vk;ksfr gksus okys dk;ZØekas dh tkudkjh foLrkjiwoZd djukA	ftyk d`f'k dk;kZy; ,oa vU; foHkkxksa dks dk;Z ;kstuk dk;ZØe dks Hkstk x;k gSA
5.	/kku esa ftad rFkk jkbZ esa lYQj ij vk;ksfr gksus okys vks-,Q-Vh- dks vfxze iafDr izR;{k.k esa gLrkukarfjr djus rFkk lh-,Q-,y-Mh- ds fjiKsVksaZ esa LFkkuh; izHksnksa ds uke dks n"kkZus dk funsZ"k fn;kA	lh-,Q-,y-Mh- dk;ZØe vUrZxr jkbZ Qly esa dqy 103 d`"kdksa ds iz{ks= ij lYQj dk izR;{k.k 40 gs- esa dj;k x;kA
6.	thjks fVyst e"khu ds j[k&j[kko ij izf'k{k.k vk;ksfr djus dh lykg nhA	Dqy 11 d`"kd izf'k{k.k lg d`"kd xks"Bh dk vk;ksfr fd;k x;k ftlesa dqy 755 fdlkuksa us izfrHkkx fd;kA
7.	/kku jksius dh e"khu ij izR;{k.k vk;ksfr djus dh lykg nhA	iSMh V ^a kLiykUVj }kjk 4 ,dM+ ¼foHkwfrij½ esa izR;{k.k dj;k x;kA

8.	bZ[k Qly ij ekSle ds izfrdwy izHkko dh voLFkk esa oSdfYid Qly ij izf" k{k.k vk;ksftr djus dh lykg nhA	oSdfYid Qly ij 5 izf" k{k.k dk;ZØe dk vk;ksstu fd;k x;k ftlesa dqy 135 d" kdksa us izfrHkkx fd;kA
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lkfjp;

d`f" k foKku dsUnz] yknk dh Lohd`fr Hkkjrh; d`f" k vuqla/kku ifj"kn~] ds }kjk 2019 esa dh xbZ ysfdus bl dsUnz dh okLrfod "kq#vkr ekpZ] 2019 ls dh xbZA ;g dsUnz 25.8849⁰ v{kak" k ,oa 86.1256⁰ mUurka;k vofLFkr gSA ;g jkslM+k cgsM+h jksM ij ftyk eq[;ky; ls 46 fdyksehVj ,oa fo"fo|ky; ls 65 fdyksehVj dh nwjh ij fLFkr gSA

leLrhiqj ftys ds nks lc&fMohtu ds ukS ç[kaMks gSaA ftlesas eq[; #i ls /kku] xsg;w] eDdk] nygu] rsygu] rEckdw] xUuk] elkyk] ,oa lCth dh Qly yh tkrh gSA Qly Øe eq[;r% /kku&xsg;w] eDdk&xsg;w ,oa eDdk&vkyw gSA f=Lrjh; lCth mRiknu vktdy fdlluksa }kjk cgqrk;r ls viuk;k tk jgk gSA

d`f" k foKku dsUnz] yknk dk mís";

- 1 uohre rduhdksa dks d"kd ds [ksrksa esa ç{ks=&ijh{k.k gsrq miyC/k djuk rkfd ;g irk fd;k tk lds fd og rduhd d"kd ds [ksrksa ds yk;d gS ;k ughaA
- 2 d" kdksa] efgykvsaka ,oa xzkeh.k ;qokvsaka ds fy, vYikof/k ,oa nh/kZ vof/k d`f" k ,oa mlls lacaf/kr vU; {ks=ksa esa O;olkf;d çf" k{k.k nsuk] ftls Lojstxkj gsrq viukdj viuh vkfFkZd fLFkr dks csgrj cuk ldsA
- 3 fofHkUu Qlyksa ij vfxze iafä çR;{k.k djuk rkfd mit ,oa bls lacaf/kr vU; egRoiw.kZ tkudkj QhMcSd ds #i esa feysA
- 4 çlkj inkf/kdkfj;ksa dks çf" k{k.k nsuk rkfd mUgsa d`f" k ds {ks= esa ubZ&ubZ rduhdks ls voxr dj;k tk ldsA
- 5 vU; xq.koÜkk okys fofHkUu chtks dk mRiknu ,oa fofHkUu izdkj ds ulZjh rS;kj dj fdlluksa dks miyC/k djukaA
- 6 lalk/ku dsUnz $\frac{1}{4}$ fjlkslZ lsUVj $\frac{1}{2}$ ds #i esa dk;Z djukaA

dsUnz ij miyC/k lajpuk,i

ç{ks= dh fLFkfr ,oa vko";drk,i

yknk ç{ks= dh feV~Vh fpduh gSA bldk ih- ,p- eku 7-6&7-9 ds chp gSA bl ç{ks= dks pkjfnokjh dh vko";drk gSA rkfd iz{ks= dh lqj{kk} izR;{k.k bdkbZ ,oa cht mRiknu dk;ZØe dks lqwerk iwoZd fd;k tk ldsA

d`f"k foKku dsUnz ds v/khu miyC/k tehu

Ø-la-	bdkbZ	d`f"k foKku dsUnz] yknk ¼gs0½
1	Hkou vkfn	fuekkZ.k iw.kZ ¼40-40½
2	Ckxokuh	¼40-50½
3	Qly	8-98
4	çn"kZu bdkbZ	0-02
5	vU; ¼4esM+] IM+d] pSuy] xM<k½	0-10
dqy		10 gs0

vk/kkjHkwwr lajpuk

(i)	ç"kkIfud Hkou& ¼4fuekkZ.kiw.kZ½	(vi)	Fkzsflax ¶yksj& ugha gSA
(ii)	fdlku ?kj& ¼4fuekkZ.kiw.kZ½	(vii)	lgk;d IM+d& gSA
(iii)	LVkQ DokVZj& ugha gSA	(viii)	Ckksfjax& 03 gSA
(iv)	xksnke & ugha gSA	(ix)	Pkkjfnokjh & ugha gSA
(v)	lksyj flapkbZ iEi		

dsUnz ij fodflr iznZ"ku bdkbZ;kj

Ø-la-	iznZ"ku bdkbZ
1	oehZ dEiksLV bdkbZ
2	ekWMy iks'k.k okfVdk
3-	de ykxr okyk ikWYh lajpuk bdkbZ
4-	ICth ikS/k"kkYk
5-	vtksyk izR;{k.k bdkbZ
6-	Ek"k#e mRiknu izR;{k.k bdkbZ
7-	eksVs vukt dk izR;{k.k bdkbZ
8-	izkd`frd [ksrh izR;{k.k bdkbZ

oSKkfudksa ,oa deZpkfj;ksa dh orZeku fLFkfr ¼07@16½

Ø-I-	Iknuke	foHkkx	Ukke
1-	Okjh; oSKkfud lg izeq[k	lCth foKku	MkW- vfHk"ksd izrki flag
2-	fo"k; oLrq fo"ks"kK	x`g foKku	MkW- ddekjh ve`rk flUgk
3-	fo"k; oLrq fo"ks"kK	d`f"k vfHk;a=.k	bZ- vfHk"ksd ddekj
4-	fo"k; oLrq fo"ks"kK	ikS/k lqj{kk	MkW- bfEruqUxlax tej
5-	fo"k; oLrq fo"ks"kK	Qly mRiknu	MkW- vuZo dq.Mq
6-	fo"k; oLrq fo"ks"kK	&	fjDr
7-	fo"k; oLrq fo"ks"kK	&	fjDr
8-	dk;ZØe lgk;d ¼ySo rduhf"k;u½	&	fjDr
9-	dk;ZØe lgk;d ¼dEl;wVj½	&	fjDr
10-	ç{ks= izca/kd	&	fjDr
11-	lgk;d	&	fjDr
12-	duh; LVsuks&lg&dEl;wVj vkWijsVj	&	fjDr
13-	Tkhi pkyd	&	Jh “;ke fd”kksj ddekj
14-	VSªDVj pkyd	&	fjDr
15-	Lkgk;d dehZ	&	Jh fodkl ddekj
16-	Lkgk;d dehZ	&	fjDr

d`f"k foKku dsUnz] yknk ¼leLrhiqj&AA½

**oSKkfud lykgdkj lfefr dh prqZFK cSBd ds fy, çxfr çfrosnu
¼uoEcj] 2021 ls tqykbZ] 2023½**

çf'k{k.k dk;ZØe dh miyfC/k

d`"kdksa ds fy,

Ø-la	fo"k;	izf'k{k.k	izf'k{k.kksa	ykhkkfFkZ;ksa dh
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		dk y{;	dh la[;k	la[;k		
				iq0	Ek0	;ksx
1-	x`g foKku	42	31	223	568	791
2-	d`f`k vfHk;a=.k	42	36	587	192	779
3-	m ku foHkkx	42	38	675	265	940
4-	lk"qk foKku	42	29	612	133	745
5-	ikS/k lqj{kk	42	22	356	220	576
6-	Qly mRiknu	42	20	535	219	754
	;ksx	252	176	2988	1597	4585

xzkeh.k ;qod@;qofr;ksa ds fy,

Ø-la	fo"k;	çf'k{k.k dk y{;	çf'k{k.kk sa dh la[;k	ykHkkfFkZ;ksa dh la[;k		
				iq0	Ek0	;ksx
1-	x`g foKku	5	5	0	125	125
2-	d`f`k vfHk;a=.k	5	4	59	0	59
3-	m ku foHkkx	5	4	67	33	100
4-	lk"qk foKku	5	3	68	14	82
5-	ikS/k lqj{kk	5	4	67	33	100
6-	Qly mRiknu	5	5	95	21	116
	;ksx	30	25	356	226	398

çlkj dk;ZdrkZvksa ds fy,

Ø-la	fo"k;	izf'k{k.k dk y{;	çf'k{k.k ksa dh la[;k	ykHkkfFkZ;ksa dh la[;k		
				iq0	Ek0	;ksx
1-	x`g foKku	6	3	76	38	114
2-	d`f`k vfHk;a=.k	6	5	175	85	260
3-	m ku foHkkx	6	5	149	56	205
4-	lk"qk foKku	6	10	273	120	393
5-	ikS/k lqj{kk	6	3	61	34	95
6-	Qly mRiknu	6	8	190	42	232
	;ksx	36	34	924	375	1299

çlkj xfrfof/k;kWa

Sl. No.	Name of Ext. Activities	No. of activities	Beneficiaries		
			Male	Female	Total
1.	Kisan Mela	01	50	15	65
2.	Kisan Gosthi	02	60	14	74
3.	Field Day	03	60	15	75
4.	Farmers visit to KVK	295	250	45	295
5.	Scientist visit of farmers field	25	55	17	72
6.	Mobile services	45	120	25	145
7.	Animal health camp	1	45	15	60

A. Soil Samples Analyzed:

Number of Soil Samples Collected	Number of Soil Samples Analyzed	Soil Health Card Distributed
150	150	150

B. Status of revolving fund as on 31.03.2023 Rs. 6,21,297.00

- ✓ In kind, 8 lakhs under kharif and rabi seed production programme & borrowed 2 lakhs was transferred to KVK, Birauli

F. i) Seed Produced:

Sl. No.	Crop	Variety	Area (ha)	Type of Seed	Seed Production			
					Quantity Produced	Sold to		
						University	Farmers	Non Seed
1.	Wheat	DBW 187	5	C/S	46 Qt	RPCAU	Supplied to DSF, Dholi	Acre
2.	Lentil	HUL-57	3	F/S	12.7 Qt	RPCAU	Supplied to DSF, Dholi	Acre
3.	Paddy	Rajshree	5	C/S	138 Qt	RPCAU	Supplied to DSF, Dholi	Acre

4.	Paddy	Rajshree	3	F/S	92 Qt	RPCAU	Supplied to DSF, Dholi	Acre
5	Wheat	HD2967	5	C/S	62.5 Qt	RPCAU	Supplied to DSF, Dholi	Acre
6	Tori	R. suflam	2	T/L	12.5 Qt	RPCAU	Supplied to DSF, Dholi	Acre
7	Lentil	IPL 220	1	F/S	6.0 Qt	RPCAU	Supplied to DSF, Dholi	Acre
8	Finger Milet	BR 407	1	F/S	Standing Crop			
8	Paddy	Rajshree	3	F/S	Standing Crop			
			5	C/S				

ii) Planting Material Production

Sl. No.	Crop	Variety/Species	Quantity Produced	Sold to	
				Govt.	Farmers
1.	Cauliflower	HYV	19420	-	805
2.	Cabbage	HYV	4032	-	224
3.	Tomato	HYV	2265	-	85
4.	Brinjal	HYV	3955	-	96
5.	Chilli	HYV	3055	-	62
6.	Others vegetables	HYV	12732	-	360
Total			39658	-	1632

G. FLD:

Crop	Variety/ Tech demo.	<u>Season</u> Kharif/ Rabi	Area (ha)	No. of Farmers	Production q/ha			Local check (q/ha)	Incre- ase in yield%	BC ratio
					H	L	A			
Mango	Fruit fly trap	Kharif	4	25	137	113	125	125	20	2.51
Onion	Bhima supreme	Kharif	1	25	307	265	286	207	27.63	3.18
Bhendi	Khasi lalima	Kharif	1	25	163	127	145	108	25.52	2.02
Wheat	Rajendra gehu 2	Rabi	2.5	25	44.1	35.4	39.8	31.7	25.6	2.21

Barley	DWRB-137	Rabi	2.5	25	12.2	11.1	11.6	9.3	31.1	1.86
Mushroom	Oyster Mushroom	Rabi	25	25	Production (Kg)				16.7	2.88
					10	4	7	6		
NutritionGarden	Bag Method	Rabi	25	25	Production (kg/day)				16.7	3.18
					6.3	4.5	5.25	4.5		
Brinjal	Pheromone trap	Kharif	25	25						
Rice	Grubber for weeding	Kharif	25	25		31.5	32.5	29.7	9.42	-
Wheat	Hermetic bag	Rabi	-	25	33.5					

H. CFLD on Pulses:

Crop	Variety/ Tech demo.	Season	Area (ha)	No. of Farmers	Production q/ha			Local check (q/ha)	Increase in yield%	BC ratio
		Kharif/ Rabi			H	L	A			
Pigeon pea (2021-22)	R. Arhar + Boron + zinc sulphate	Kharif	10	41	16.3	12.9	14.6	10.1	44.5	3.46
Lentil (2021-22)	IPL 316+ Zinc+ boron + Sulphur	Rabi	10	83	13.6	9.6	11.6	8.9	30.3	2.30
Green Gram (2021-22)	IPM 2-3+ Boran+ sulphur + emamectin benzoate	Rabi	10	64	14.0	8.9	11.4	8.6	32.6	3.13
Pigeon pea (2022-23)	R. Arhar + Boron + zinc sulphate	Kharif	20	87	16.7	12.6	14.98	10.2	44.1	3.11
Field Pea (2022-23)	IPFD-10-12 + boron +Imidacloprid + carbendazim+ mancozeb	Rabi	10	54	18.4	14.6	15.45	11.1	48.64	2.86
Lentil (2022-23)	IPL526 + boron +Imidacloprid + carbendazim+ mancozeb	Rabi	20	50	11.4	9.3	8.78	7.8	33.3	2.03
Chick Pea (2022-23)	PUSA 3043+ boron +Imidacloprid + carbendazim+ mancozeb	Rabi	20	101	15.7	13.9	14.3	11.7	26.5	2.84
Black Gram (2022-23)	T9 + boron +Imidacloprid +	Zayad	10	33	10.4	8.7	9.8	7.6	28.9	2.41

o'kZ		la[;k% 03	
Rkduhdh fodYi	d`'kd vH;kl% vuq"kaflr moZjd nj ¼100%40%20½ fd-xzk-@gs-		
	Rkduhdh fodYi& 1 % vuq"kaflr us=tu dk 50 % vkSj 100 % LQwj ,oa iksVk"k \$ uSuks ;wfj;k dk fNM+dko @ 4 fe-yh-@yhVj ikuh ¼435 fnu cqokbZ ds ckn½		
	Rkduhdh fodYi& 2 % vuq"kaflr us=tu dk 50 % vkSj 100 % LQwj ,oa iksVk"k \$ uSuks ;wfj;k dk 02 fNM+dko @ 4 fe-yh-@yhVj ikuh ¼435 fnu ,oa 60&65 fnu cqokbZ ds ckn½		

V ^a hVesaV	pH		EC (dS/m)		OC		N (kg/ha)		P (kg/ha)		K(kg/ha)	
,Q-ih-	8.07	8.01a	0.28	0.30a	0.42	0.40a	212.7	207.1a	18.29	18.17a	172	185.0a
Vh- vks-1		7.99a		0.29a		0.40a		192.3a		17.74a		181.4a
Vh- vks-2		7.98a		0.28a		0.40a		199.7a		17.50a		183.4a
s.e.d	-	0.10		0.03		0.03		19.12		1.43		13.91
CD	-	NS		NS		NS		NS		NS		NS

[illegible]

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dk miyC/k uk gksuk □□ □□□□□ □□□ □□□□□□□□ □□ □□□□□□□□ □□ □□□□□ □□ □□□□
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vks-,Q-Vh-% 2	/kku esa ukbV ^a kstu mi;ksx n{krk esa lq/kkj		
leL;k dh igpku	jklk;fud moZjdksa ds vR;f/kd mi;ksx vkSj ;wfj;k dh c<+rh dherksa ls [ksrh dh ykxr esa o`f) gksrh gSaA		
izkjafHkd o`kZ	2023&24	Rkduhdh fodYiksa dh la[;k% 03	dk;Z LFkku la[;k% 07
Rkduhdh fodYi	d`'kd vH;kl% vuq"kaflr moZjd nj ¼100%40%20½ fd-xzk-@gs-		
	Rkduhdh fodYi& 1 % vuq"kaflr us=tu dk 50 % vkSj 100 % LQwj ,oa iksVk"k \$ uSuks ;wfj;k dk fNM+dko @ 4 fe-yh-@yhVj ikuh ¼435 fnu cqokbZ ds ckn½		
	Rkduhdh fodYi& 2 % vuq"kaflr us=tu dk 50 % vkSj 100 % LQwj ,oa iksVk"k \$ uSuks ;wfj;k dk 02 fNM+dko @ 4 fe-yh-@yhVj ikuh ¼435 fnu ,oa 60&65 fnu cqokbZ ds ckn½		

fo`k;% ikS/k lqj{kk

vks-,Q-Vh-% 3	VekVj esa çeq[k dhVksa ds fy, tSo&l?ku çca/ku çFkkvkksa dk vkdyu		
leL;k dh igpku	leLrhiqj {ks= esa VekVj dh Qly esa Qy Nsnd] >qylk jksx vkfn ds izdksi ls mRiknu esa deh		
izkjafHkd o`kZ	2022	Rkduhdh fodYiksa dh la[;k% 03	ijh{k.kksa dh la[;k% 07
Rkduhdh fodYi	d`'kd vH;kl% cht mipkj		

	Rkduhdh fodYi&1 %	➤ vkbZ-vkbZ-,p-vkj- ds ck;ks dalksfVZ;k dk vuqç;ksx $\frac{1}{4}$e`nk vuqç;ksx$\frac{1}{2}$ ➤ cht mipkj ih- flyksjslsUl @10 xzke@fd-xzk- ➤ ih- flyksjslsal }kjk 20 xzke@oxZehVj dh nj ls ulZjh fcLrj dk mipkj ➤ jksikbZ ds 30 fnu ckn feêh esa ih- flyksjslsal 5 fdxzk@gsDVs;j dks 500 fdxzk oehZ dEiksLV@gsDVs;j ➤ ,p-,u-ih-oh 250 ,y-bZ@gsDVs;j dk fNM+dko
	Rkduhdh fodYi&2 %	➤ vkbZ-,vkj-vkbZ ds ck;ks dalksfVZ;k dk e`nk vuqç;ksx ➤ V^akbdksMekZ fojkbM }kjk 10 xzke@fdxzk dh nj ls cht mipkj djsa ➤ V^akbdksMekZ fojkbM @50 xzke@oxZehVj }kjk ulZjh fcLrj dk mipkj ➤ jksikbZ ds 30 fnu ckn feêh esa V^akbdksMekZ fojkbM 5 fdxzk@gsDVs;j dh nj ls 500 fdxzk ;wfV^a;k&[kkn@gsDVs;j ds lkFk feyk,aA ➤ ,p-,u-ih-oh 250 ,ybZ@gsDVs;j dk fNM+dko djsa

TO																					
	Percent Disease index(%)							Percent Disease index (%)							Percent Disease index (%)						
	40 DAT	55 DAT	70 DAT	85 DAT	100 DAT	115 DAT	Mean	40 DAT	55 DAT	70 DAT	85 DAT	100 DAT	115 DAT	Mean	40 DAT	55 DAT	70 DAT	85 DAT	100 DAT	115 DAT	Mean
FP	0.29 (0.53)	1.55 (1.25)	3.05 (1.75)	7.77 (2.79)	13.63 (3.69)	18.81 (4.34)	7.51 (2.74)a	0.57 (0.76)	1.84 (1.36)	2.41 (1.55)	3.94 (1.99)	7.47 (2.73)	11.86 (3.44)	4.68 (2.16) a	2.45 (1.57)	4.54 (2.13)	6.22 (2.49)	7.98 (2.82)	9.43 (3.07)	11.47 (3.39)	7.02 (2.64) a
TO1	0.00 (0.00)	0.61 (0.78)	1.91 (1.38)	2.39 (1.54)	4.29 (2.07)	6.10 (2.47)	2.55 (1.60)a	0.29 (0.53)	1.20 (1.10)	1.91 (1.38)	2.71 (1.65)	4.16 (2.04)	6.09 (2.47)	2.72 (1.65) a	0.76 (0.87)	1.81 (1.34)	3.06 1.75)	7.29 (2.70)	14.34 (3.79)	21.87 (4.68)	8.19 (2.86) a
TO2	0.00 (0.00)	0.44 (0.67)	1.17 (1.08)	1.99 (1.41)	2.93 (1.71)	4.03 (2.01)	1.76 (1.33)a	0.00 (0.00)	1.10 (1.05)	1.63 (1.28)	2.14 (1.46)	2.84 (1.69)	3.93 (1.98)	1.94 (1.39) a	2.21 (1.49)	3.84 (1.96)	7.03 2.65)	11.23 (3.35)	15.22 (3.90)	21.34 (4.62)	10.15 (3.18) a
CD							0.58							2.83							1.62

P=0.05																				
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TO	Fruit borer (<i>H. armigera</i>)						Sucking pest (Aphids and whiteflies)					
	Fruit infestation (%)						No. of individuals per plant					
	10 DAS	25 DAS	45 DAS	65 DAS	85 DAS	Mean	10 DAS	25DAS	45DAS	65DAS	85 DAS	Mean
FP	7.44 (2.82)	7.64 (2.85)	7.79 (2.88)	8.51 (3.00)	8.77 (3.04)	8.03 (2.92) a	26.66 (31.08)	27.21 (31.44)	30.98 (33.82)	31.45 (34.11)	36.23 (37.00)	30.51 (33.52)b
TO1	6.94 (2.73)	7.14 (2.76)	7.29 (2.79)	8.01 (2.92)	8.27 (2.96)	7.53 (2.83) a	27.82 (42.25)	31.52 (34.15)	33.67 (35.46)	41.34 (40.01)	45.11 (42.19)	35.91 (36.81)b
TO2	5.47 (2.44)	5.87 (2.52)	6.04 (2.56)	6.13 (2.57)	6.26 (2.60)	5.95 (2.54) a	36.44 (37.13)	38.12 (38.12)	39.13 (38.72)	42.49 (40.68)	43.33 (41.16)	41.65 (40.19)b
CD P=0.05						0.39						3.87

aFigures in parentheses are square root transformed values

bFigures in parentheses are angular transformed values

- Fruit yield of tomato (L-37 a susceptible hybrid against most of the diseases) was found maximum in T₂ (350.61 q/ha) and T₁ (315.89 q/ha) as compared to Farmers' practice (271.90 q/ha).
- Disease incidence of Late blight and Early Blight was found minimum in T₂ (1.76) and T₁ (2.55) as compared to farmers' practice (7.51) and for early blight T₂ (3.93) and T₁ (6.09) and farmers' practice (11.86).
- Infestation of Fruit Borer (*H. armigera*) was also found minimum in T₂ (5.95) and T₁ (7.53) as compared to farmers' practice (8.03).
- Where as Disease incidence of (ToLCV) was found minimum in Farmers' practice (7.02) as compared to T₁ (8.19) and T₂(10.15).

- Similarly infestation of Sucking pest (Aphids and whiteflies) was found minimum in Farmers' practice (30.51) as compared to T₁ (35.91) and T₂ (41.65) as no specific control measures were used against this pest, while in the farmers practice spraying of imidacloprid was done which was found more effective.

fo'k;% □□□□ □□□□□□□□□□□□

vks-,Q-Vh-% 4

ओएफटी का शीर्षक	सब्जी फसल उत्पादन में कम लागत वाली मल्टिपलिंग का आकलन
समस्या	निराई-गुड़ाई के कार्य में अधिक श्रम की आवश्यकता होती है, जिससे फसल की उपज कम हो जाती है और लाभप्रदता कम हो जाती है
प्रौद्योगिकी विकल्प	किसानों का अभ्यास: कोई घास नहीं
	टी.ओ.-1- केले के पत्ते की घास
	टी.ओ.-2- फसल अवशेष गीली घास (धान का भूसा)
स्वतंत्र कारकों की संख्या: 3	
प्रतिकृतियों की संख्या: 7	

प्रौद्योगिकी विकल्प	पराक्षणों की संख्या	उपज घटक				
		तने का व्यास (मिमी)	पौधे की ऊंचाई (सेमी)	फल वजन (ग्राम)	फल/पौधे	उपज (टन/हेक्टेयर)
किसानों अभ्यास:	7	3.07 b	72.86 c	79.86 c	19.71 c	28.43 c
टी.ओ.-1		3.16 b	75.29 b	81.29 b	21.00 b	31.43 b
टी.ओ.-2		3.47 a	82.00 a	83.14 a	22.71 a	35.29 a
प्रौद्योगिकी विकल्प	खेती की लागत (रु./हेक्टेयर)		सकल आय (रुपये/हेक्टेयर)	शुद्ध आय (रुपये/हेक्टेयर)	बी:सी अनुपात	
किसानों अभ्यास:	43150		112500	69350	2.61	
टी.ओ.-1	48250		152350	104100	3.15	
टी.ओ.-2	46150		153500	107350	3.32	

- सभी स्वतंत्र मापदंडों के लिए फल उपज पर निर्भर पैरामीटर सांख्यिकीय रूप से एक-दूसरे से काफी भिन्न पाए गए, जहां शून्य परिकल्पना को खारिज कर दिया गया और वैकल्पिक परिकल्पना को स्वीकार कर लिया गया और स्वतंत्र मापदंडों का पता लगाने के लिए आगे डंकन पोस्ट-हॉक परीक्षण किए गए, जिनमें से 5% महत्व के स्तर या 95% विश्वास अंतराल (पी<0.05) पर आश्रित मूल्य काफी भिन्न पाए गए।
- TO2 (धान पुआल मलच) के लिए उच्चतम बीसी अनुपात पाया गया, जिसे इसकी प्रचुर उपस्थिति के कारण आसानी से अपनाया जा सकता है और यह धान के पुआल जलाने की समस्या का भी समाधान करता है।

vks-,Q-Vh-% 5

1	ओ एफ टी-5 कृषि अभियांत्रिकी	
2	ओएफटी का शीर्षक	धान की फसल में निराई-गुड़ाई के विभिन्न उपकरणों का आकलन
3	समस्या	फसल की विभिन्न अवस्थाओं के दौरान खरपतवारों का अधिक प्रकोप
	मूल्यांकन के लिए चयनित प्रौद्योगिकियों का विवरण	T.O. 1 किसानों का अभ्यास (स्थानीय उपकरण/हाथ से हस्तचालित अंतरसंस्कृति) T.O. 2 ग्रबर के साथ मैनुअल इंटरकल्चरिंग T.O. 3 पावर वीडर के साथ इंटरकल्चरिंग
4		
5	प्रौद्योगिकी का स्रोत	ICAR-CIAE, Bhopal & RPCAU, Pusa
6	प्रतिकृति	7
7	उत्पादन प्रणाली/विषयगत क्षेत्र	निराई यंत्रीकरण
8	आश्रित पैरामीटर	1. फील्ड कपैसिटी 2. अंतरसंस्कृति की लागत 3. एर्गोनोमिक मूल्यांकन 4. बी सी अनुपात

fo'k;% x`g foKku

vks-,Q-Vh- % 1	“kgn vk/kkfjr xktj dSaMh dk fodkl vkSj xq.koÙkk ewY;kadu
leL;k dk funku	cPps LFkkuh; :i ls miyC/k dSaMh [kk jgs gS ftldk iks’kd ewY; de gSA
Rkduhdh fodYi	xktj twl vkSj lCth ds :i esa cPpsa bLrseky djrs gSaA
rduhd 1	'kgn 750 xzke \$ xktj 1000 xzke
Rkduhd 2	'kgn 1000 xzke \$ xktj 1000 xzke

Effect of honey composition on Sensory quality of honey based carrot candy

Treatments	Colour*	Flavour*	Taste*	Texture*	Overall acceptability
Farmers Practice	7.2 ± 0.42	7.2 ± 0.42	7.3 ± 0.48	7.2 ±0.63	7.22 ± 0.05
T1	8.9 ± 0.31	8.7 ± 0.48	8.7 ± 0.48	8.8 ± 0.42	8.7 ± 0.09
T2	7.4 ± 0.69	7.8 ± 0.63	7.7 ± 0.67	7.8 ± 0.78	7.6 ± 0.18

* All the Parameter are estimated by 9 point 9 Hedonic scale

The above results indicated that sample T1 prepared by incorporating 750 g honey in 1,000 g of carrot was the most preferred candy. Children and his family gave higher score to T1.

OFT-7 Home science

vks-,Q-Vh-% 2	lks;kchu ds dVkbZ ds fy, feVsUI dh izHkko”khyrk dk vkdyuA
leL;k dk funku	lks;kchu dh dVkbZ djrs le; [ksrkas esa etnwjksa dh vkus okyh leL;k;saA
Rkduhdh fodYi	lks;kchu dh dVkbZ gkFk ls glqvk dh lgk;rk ls dh tkrh gSA
rduhd 1	ikS/kksa dks eSU;qvy :i ls dkVus] bdVB~k djus vkSj caMy cukus ds fy, LFkkuh; :i ls miyC/k nLrkusa dk mi;ksx djukA
Rkduhd 2	, -vkbZ-lh-vkj-ih- x`g foKku egkfo[ky;] oh-,u-,e-ds-oh ijHk.kh }kjk fodflr lqj{kkRed nLrkusa dk mi;ksx djuk lks;kchu dh dVkbZ ds fy,A
	dk;Z izxfr

L. TV Talk/Radio Talk:

SI. No.	Topic of the talk	Name of Scientist	TV/Radio talk station	Date of Recoding
1.	Backyard poultry importance	Dr. Kundan Kumar	ETV-18	14/03/2023
2.	Nutrient management in mango	Dr. A.P. Singh	ETV-18	14/03/2023
3.	Fruit cracking in litchi		ETV-18	14/03/2023
4.	Turmeric cultivation		ETV-18	14/03/2023
5.	Cowpea cultivation		ETV-18	14/03/2023
6.	Weed management in rabi pulses	Dr. Arnab Kundu	ETV-18	12/12/2022
7.	Prophylactic measures of stored grain		ETV-18	14/03/2023
8.	Ratooning in sugarcane		ETV-18	14/03/2023

9.	Management of mealybug in mango	Dr. Imtinungsang Jamir	ETV-18	12/12/2022
10	Disease and pest management in gourds vegetable			14/03/2023
10.	Nutri-garden	Dr. Kumari Amrita Sinha	Doordarshan	29/11/2022
11.	Importance of Nutri-garden		ETV-18	12/12/2022
12	Automatic irrigation system	Er. Abhishek Kumar	ETV-18	12/12/2022
13	Wheat harvesting machineries		ETV-18	14/03/2023

M. Other Special programme/ salient achievement/activities conducted at KVK:

SI. No.	Particulars	Date	No. of Participants
1.	Kisan Bhagidari prathamikta hamari	26-04-2022	20
2.	Poshan Abhiyan and Briksharopan karyakram	17-09-2022	90
3.	Two days farmers-scientists interaction	23-09-2022 to 24-09-2022	60
4.	Agri-start up conclave and Kisan Sammelan	17-10-2022	210
5.	One day mushroom training	18-10-2022	110
6.	Swachhata Abhiyan	19-10-2022	51
7.	Children's day	14-11-2022	53
8.	Agriculture education day	03-12-2022	165
9.	World Soil Day	05-12-2022	58
10.	Kisan Diwas	23-12-2022	64
11.	Safe and judicious user of agrochemicals	28-12-2022	232
12.	National Youth Day	12-01-2023	36
13.	Awareness programme on millet cultivation and value added products	10-02-2023	54
14.	Kisan Samman Nidhi	27-02-2023	69
15.	International Millets Conference	18-03-2023	
16.	Celebration of Bihar Diwas	22-03-2023	206
17.	Poshan Pakhwada	28-03-2023	42
18	95 th ICAR Foundation Day & Technology Day	16-07-2023 to 18-07-2023	278

N. SAC conducted at KVK:

SI. No.	Particulars	Date	No. of Participants
1.	3 rd SAC Meeting	22-10-2022	24

O. List of visitors at KVK:

Date	Name & Designation	Purpose of visit
26-04-2022	Honorable Sri. Birender Prasad, MLA, Rosera, Samastipur	Visit to KVK office, farm and interacted with staffs
24-11-2022	Dr. Sandip Ghosh, Nutrition Officer,	Proposed Extension Functionaries

	UNICEF Bihar Field Office	training with the help of Sr. Scientist and Head and KVK SMSs for Bihar Jeevika personnel's
	Honorable Distric Magistrate Yogendra Singh, Samastipur	Visit to KVK office, farm and interacted with staffs and on-going activities of KVK, Lada
28-12-2022	Ajeet Verma, HIL (India) Ltd., Scope complex, New Delhi	To attend the farmers-scientists interaction-cum-training programme on 'Safe and judical use of agro-chemicals'
	Anshu Kumri, AEDEA FDoundation (Green Tv)	To attend the farmers-scientists interaction-cum-training programme on 'Safe and judical use of agro-chemicals'
01-01-2023	Honorable Sri. Birender Prasad, MLA, Rosera, Samastipur	Visit to KVK office, farm and interacted with staffs
18-03-2023	Dr. D.K. Roy, Director seed, RPCAU, Pusa	To monitor the seed production programme of KVK, Lada

P. Participation in National Conference, Sumer/Winter School, Workshop, Training Programme etc.

Name of Programme	Nature of Programme Attended	Date
National Conference	Conservation agriculture improves structural attributes of a clayey soil in lower Indo-Gangetic plains: A short term study	30-10-2022
Summer/ Winter School Workshop	Adding value to primary produce and secondary produce (By-Products): Building agricultural enterprises in rural area via secondary agriculture	10-11-2022 to 30-11-2022
	MDP for newly recruited Senior Scientist and Head of KVKs	28-03-2022 to 03-04-2022
	Enhancing crop production through climate smart technologies	04-04-2022 to 11-04-2022
	Enhancing crop production through climate smart technologies	12-04-2022 to 19-04-2022
	Natural farming	25-03-2023 to 27-03-2023
Training Programme	Training programme on impactful ICT applications and technologies in agriculture	15 June-18 July 2022 25-05-2022 to 27-05-2022
Seminar/Symposium	-	-
Others	Solar powered irrigation systems	25-27 May, 2022
	Orientation course for newly inducted SMSs	27-30 April, 2022

Q. Other Extension activities

Sl. No.	Name of Ext. Activities	No. of Activities	Beneficiaries		
			Male	Female	Total
1.	Kisan Mela	4	865	182	1047
2.	Kisan Gosthi	16	1480	490	1970
3.	Field Day	19	367	100	467
4.	Farmers Visit to KVK	28	1033	679	1712
5.	Scientist Visit of farmers field	69	574	232	806
6.	Animal Health Camp	1	155	25	180
7.	Exposure Visit	4	125	25	150
8.	Lecture Delivered as Resource Person	10	364	162	526
9.	Number of Agro Advisories (By Phone)	12	22	10	32
10.	Number of SMS Advisories sent	16	780	334	1114
11.	Number of Agro Metrological Advisories	0	0	0	0
12.	Any other (Pl. specify)				

R. PUBLICATION:**(i) Research papers published (01.04.2022 to 31.03.2023)**

Name of the author (s)	Year	Title	Name of the Journal & NAAS Rating	Vol. No. & Page No.
Lal N, Singh AP , Tiwari DK, Mishra PK, Swaroop J, Lakra, J, Sahu K	2022	Fruit cracking in Litchi: Big challenges under changing climatic condition.	Scientist [NAAS:6.85]	Vol.1 (3)
Jamir I , Mandal AK, Bhattacharjee T, Dutta T, Banerjee S, Maurya PK, Lalramhlmi B, Chatterjee S, Chattopadhyay A.	2023	Performance of eggplant cultivars grafted on wild and cultivated rootstocks in bacterial wilt infected field	International Journal of Vegetable Science [NAAS:7.5]	Vol. 23 (2)
Nandi R, Mukherjee S, Bandyopadhyay PK, Saha M, Singh KC, Ghatak P, Kundu A , Saha S, Nath R, Chakraborti P.	2023	Assessment and mitigation of soil water stress of rainfed lentil (Lens culinaris Medik) through sowing time, tillage and potassic fertilization disparities	Agricultural Water Management [NAAS:10.52]	Vol. 277

(iv) Popular articles published (01.04.2022 to 31.03.2023)

Name of the Author(s)	Year	Title	Name of the Magazine	Vol. No. & Page Numbers
Abhishek Pratap Singh	2022	Rangeen Foolgobhi ki Bahar	Phal Phool, ICAR	Vol. 43(3)
Abhishek Pratap Singh	2022	Rangeen Foolgobhi me fasal	Adhunik	Vol. 11

		awasesh dwara jaivik palwar ka prayog	Kisan Patrika	
Abhishek Pratap Singh	2023	Round the year vegetable seedlings production in low-cost polyhouse:	New Age Protected Cultivation	Volume-9 Issue January - June 2023 Page: 41-42.
Kumar K, Kundu A, Jamir I	2023	Clean milk production- Optimizing the milk value chain	Dairy planner	Vol. 20 (2)
Patra A, Singh RP, Kundu, MS, Kumar G, Malkani P, Singh BK, Choudhury S, Kundu A , Mukherjee S	2023	Green manuring: A sustainable approach for soil health improvement	Agriculture & E-newsletter	Vol. 5(4) pp. 198-201
Patra A, Singh RP, Kundu MS, Kundu A , Mukherjee S	2023	Millet production in India: Challenges and opportunities	Biotica research today	Vol. 5(3) pp. 238-241

çLrkfor çlkj dk;ZØe

d`f"K foKku dsUnz] yknk ¼leLrhiqj&AA½

¼vizSy 2023 ls ekpZ 2024½

çf"K{k.k dk;ZØe

d`"kdks ds fy,

Ø-la-	fo"K;	çf"K{k.kks a dh la[;k	ykHkkfFkZ;ksa dh la[;k		
			iq0	Ek0	;ksx
1-	x`g foKku	24	432	168	600
2-	d`f"K vfHk;a=.k	24	432	168	600
3-	ikS/k lqj{kk	24	432	168	600
4-	Qly mRiknu	24	432	168	600
	;ksx	96	1728	672	2400

Xkzkeh.k ;qod@;qofr;ksa ds fy,

Ø-la-	fo"K;	çf"K{k.kks a dh la[;k	ykHkkfFkZ;ksa dh la[;k		
			iq0	Ek0	;ksx
1-	x`g foKku	4	75	25	100
2-	d`f"K vfHk;a=.k	4	75	25	100
3-	ikS/k lqj{kk	4	75	25	100
4-	Qly mRiknu	4	75	25	100
	;ksx	16	300	100	400

izlkj dk;ZdÜkkZvksa ds fy,

Ø-la-	fo"K;	çf"K{k.kks a dh la[;k	ykHkkfFkZ;ksa dh la[;k		
			iq0	Ek0	;ksx
1-	x`g foKku	4	75	25	100
2-	d`f"K vfHk;a=.k	4	75	25	100
3-	ikS/k lqj{kk	4	75	25	100
4-	Qly mRiknu	4	75	25	100
	;ksx	16	300	100	400

O;olkf;d izf''k{k.k dk;ZØe

Ø-la-	fo"k;	çf''k{k.kks a dh la[;k	ykHkkfFkZ;ksa dh la[;k		
			iq0	Ek0	;ksx
1-	x`g foKku	1	0	20	20
2-	d`f'k vfHk;a=.k	1	15	5	20
3-	ikS/k lqj{kk	1	15	5	20
4-	Qly mRiknu	1	15	5	20
	;ksx	4	45	35	80

Front Line Demonstrations (FLDs) Proposed 2023

Technologies to be demonstrated	Crop/Enterprise	Variety	Area in ha	No of farmers
Nutrition garden	Bag method	HYV	0.5	25
Spawn	Mushroom	Oyster	-	25
Fruit fly trap	Mango	-	4	25
Pheromone tap	Brinjal	-	4	25
Biofortified wheat	Wheat	Rajendra gehu 2	2.5	10
R. neelam	Rice	R. neelam	2.5	10
Azolla	Rice	<i>Azolla pinnata</i>	-	25
Grubber for weeding	Rice	-	1.0	25
Hermetic bag	Wheat	-	-	25

Proposed/Ongoing OFTs -2023

Sl. No.	Problem Diagnosed	Title of OFT
1	Excessive use of chemical fertilizer and Spiraling price of urea leads to increase in cost of cultivation	Improvement of Nitrogen use efficiency in wheat
2	Excessive use of chemical fertilizer and spiraling price of urea leads to increase in cost of cultivation	Improvement of Nitrogen use efficiency in rice
3	Non-availability of bio control agents and no proper remedy taken before sowing the seeds leads to huge losses of marketable fruit yield and high infestation with different diseases.	Assessment of biointensive management practices for major pests in Tomato
4	Spraying of chlorpyrifos and when disease appears	Assessment of management practices for Red banded caterpillar in Mango
5	Weeding operation required more labor, reducing crop yield, and low profitability	Assessment of lowcost Mulching in Vegetable Crop Production
6	high weeding problems in direct seeded rice and drudgery	Assessment of different weeding tools in

Capacity building activity

Sl. No.		No. of Course	No. of beneficiaries
1.	Farmers/Farm Women	96	2400
2.	Rural Youth	16	400
3.	Extension Personnel	16	400
4.	Vocational Training	4	100
5.	Skill Development Training	2	50
6.	Sponsored Training	8	200

izlkj xfrfof/k;kj

Øe la0	izlkj xfrfof/k;kj dk uke	xfrfof/k;ksa dh la[;k	ykHkkfFkZ;ksa dh la[;k
1-	fdlku essay	2	400
2-	fdlku xks'Bh	15	800
3-	iz{ks= fnol	10	500
4-	d`0fo0ds0 esa d`kdksa dk vkxeu	1	2500
5-	OkSKkfudksa }kjk iz{ks= Hkze.k	80	1500
7-	,Dlikstj Hkze.k	16	1500
8-	funkudkj Hkze.k	2	200
9-	LoPNrk gh lsok	3	250
10-	fo`ks`kK ds rkSj ij O;k[k;kuks dh la[;k	30	800
11-	d`f`k lacaf/kr ijke`kkZsa dh la[;k ¼nqjHkk`k½	12	1000
dqy		171	9450

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ekulwu dh vfu;ferk dh fLFkfr ls fuiVus ds fy, d`f`k foKku dsUnz] yknk }kjk oSdfYid Qly ;kstukvksa ds lkFk lkFk vU; ;kstukvksa dks Hkh dk;kZfUor fd;k tk,xkA blds vUrxZr ikjaifjd Qlyksa ds lkFk&lkFk vikjaifjd Qly ¼lks;kchu] cxxokuh] eksVs vukt bR;kfn½ ds mRiknu ds fy, d`kdksa dks c<+rh gqbZ :ph ,oa xzkeh.k {ks=ksa esa fofo/khdj.k dks izksRlkfgr dj fdlkuksa dh vk; esa o`f) djus dk y{; gS ftlds fy, fuEu fo`k;ksa ij izf`k{k.k] izn`kZu ,oa d`kd [ksrksa ij ijh{k.k dj, tk,xsA

- 1- vkdfLed Qly ;kstuk dk izlkj djukA
- 2- vk/kqfud [ksrh ds fy, lesfdr [kkn] dhV ,oa jksx izca/ku vkSj izkd`frd [ksrh dk O;kid izpkj izlkj djukA
- 3- /kku dh lh/kh cqvkbZ dk ifj{k.k ,oa izR;k.k djukA
- 4- ftys dh feÍh dh moZjk'kfDr cuk, j[kus ds fy, oehZ mRikn ,oa tSfod [kkn dk O;kid izpkj izlkj] tSfod xzke dh LFkkiuk ds }kjk djukA
- 5- cht mRiknu esa ftys dks vxz.kh cukus ds fy, fdlkuksa dh lgHkkfxrk ls chtk xzke dh LFkkiuk ,oa mldk fodkl djuk A
- 6- l?ku cxxckuh ds vUrxZr vke] yhph] vukj] ve:n ,oa vkWoys ds cxhpkSa dh LFkkiuk ,oa mldk fodkl djukA
- 7- Qly fofof/kdj.k ds fy, vkS`k/kh; ,oa lqxaf/kr ikS/kksa] dh [ksrh dks c<+kok nsukA
- 8- fofHkUu jkstxkjq[kh izf`k{k.k dk;ZØe ds }kjk xzkeh.k ;qod ,oa ;qofr;ksa dk vkfFkZd ,oa lkekftd l`kfDrdj.k djukA
- 9- d`f`k mRikndrk dks c<+kus ds fy, e/kqeD[khikyu dks c<+kok nsukA
- 10- lhfer ,oa LFkkuh; lalk/kuksa ds mi;ksx ls ,dhd`r Qly i)fr dh izn`kZu bdkbZ dk;ZØe rS;kj djukA
- 11- ftys ds fofHkUu xk;joksa esa dsUnz }kjk lg;ksx lfefr;kj@d`kd Dycksa dk fuekZ.k djukA
- 12- LFkkiuk ,oa izf`k{k.k dk;ZØe rS;kj djukA
- 13- ftys eas d`f`k ;ka=hdj.k ds }kjk lalk/kuksa ds mfpr ,oa xq.koUkk iw.kZ mi;ksx dks c<+kok nsukA
- 14- d`f`k lkfgR; dk izdk"ku ,oa forj.kA

- 15- d`f`k foKku dsUnz] yknk dks jkT; dk vk/kqfud ,oa loksZÙke
izf`k{k.k dsUnz ds :i esa fodflr djukA
- 16- lkSj mtkZ lapkfyr flapkbZ O;oLFkk dks izksRlkgu nsukA
- 17- iks`k.k okfVdk ,oa vU; Qlyksa ds ck;ksQksfVZQkbZM fdLeksa
dk izlkj djukA
