



eYy [kkc [kGkMP; k , dKxirk o l ello; ; k ?Vdkoj ; kfxd i fØ; kpk i fj . kke vH; kl . ks i k- fni d l kñkxj

I pkyd] 'kkjhfjd f'k{k.k o ØtMK] dyk] foKku o okf.kT; egkfo/ky;] vks>j fex]
ukf'kd-

Abstract

eYy [kkc gk , d Lo; i k] Lora= 0; k; ke i zdky Eg. kiu i ptyr vkg; eYy [kkc [kGkMuk vki ys dks kY; s I knj djrkuk mRre i zdkjph , dKxirk o l ello; ; k ?Vdkph vko'; drk vI rs gh xjt ; kfxd fØ; s}kjs i k] dyl tkor 'kdris dk\ gs rikl . ; kl kBh eYy [kkc [kGkMP; k , dKxirk o l ello; ; k घटकांवर योगिक प्रक्रियेचा काय परिणाम होता हे पाहण्यासाठी ७२-७४ वयोगटातील २५ खेळाडूंची निवड I grnd i nrhus dj.; kr vkyh gkrh- I nj I dksukl kBh i k; kfxd i nr okij.; kr vkyh- th- l h-vk- -dl ksVh %, dKxirk k] gMckly Vkl dl ksVh % l ello; % gh ekfgrh I dyukph I kkus okij.; kr vkyh vI uu I kf[; dh; fo'ys'k. kl kBh e/; ekuy] i ek. kfopyuj e/; ekukrhy Qjd] , Q eit; s; kpk okij dj.; kr vkyk- ; kfxd i fØ; kgs eYy [kkc [kGkMP; k , dKxirk o l ello; ; k ?Vdkoj ; kfxd i fØ; kpk l kFkld i fj. kke gkrks gs Li "V >ky

egRRokP; k l Kk% eYy [kkc [kGkM], dKxirk] l ello;] ; kfxd i fØ; k-



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i Lrkouk%

Hkj jnkP; k oñko' kkyh I kLdfrd okj l k Eg. kts eYy [kkc] fofo/k i zdkjP; k Li /kkj/; § [kGkæ/; s eukph , dKxirk o l ello; gs ?Vd egRRokps vI rkr- R; kpi zek. ks eYy [kkc [kGkr I vnk vkc; k] eM; k] vkl us b- dks kY; djrkuk , dKxirk o l ello; vko'; d vI rs eYy [kkc [kGkI kBh ; kxkpk fdri r mi ; kx gkbly ; kph ekfgrh ul Y; kus I dks/kdkus ; kxk o eYy [kkc [kG ; kph l kxM ?kky. ; kl kBh gk fo"k; gkrh ?ksryk vkg;

eYy [kkc [kGke/; s oxoxGh vkl us dj. ; kl kBh 'kj h kph , dKxirk o l ello; egRRokpk vI rks ; kfxd i fØ; s}kjs eYy [kkc [kGkMP; k , dKxirk o l ello; ?Vdkoj i HkRo feGoiu dk; zekukr ok< gkrks dk\ gs vH; kl . ; kl kBh l dks/kdkus gk fo"k; fuoMyk vkg;

I zcf/kr l kfgR; kpk vkcok%

9. dks/t] v- o 'kek] fu- %R012% ; kuh ; kx ekb; ypk , dKxirk vkf. k Lej. kkoj gks kkjk i fj. kke vH; kl yk ; ke/; s coo fo | kF; kph fuoM dyl- dl ksVh }okjs vky; k i klrkdkpk fopkj d: u १७३ mPp r. kko o १४२ deh r. kko vI y; k fo | kF; kph fuoM dyl-

i k; kf_{xd} o fu; f=r xV_{kph} i o_z pkp. kh ?ks ; kr vkyh- i k; kf_{xd} xV_{koj} vkl u] i k. kk; ke] l k/kuk gs ; kf_{xd} dk; Øe jkcfo. ; kr vky_s R; kurj mRrj pkp. kh ?ks ; kr vkyh- R; ke/klu vI s fu" d" k_l v_k<Giu vky_s dh] ; kf_{xd} dk; Øe i w k_l dsy_s; k fo | kF; kP; k , dkx_{rr} vkf. k y?k_{dkyhu} Lej. kkr y{k. kh; ok< v_k<Giu vkyh-

2. jkepnju] ¼ooos) ; kuh vefjdr १६ rs २२ o; kxVkrhy eYy [kkc [kGkMP; k dk; žekuj oj i KM. kkU; k ?kVdkps fo' y's'k. k dsy_s ; ke/; s R; kuh rkdnhpk nenkj i . kk] yofpdrk] ox] [kka] kph rkdn ; k ?kVdkps eYy [kkc dk; žeku ok<rs gs fl /n dsy_s l ñ kks'kukph mfì "V; %

3. eYy [kkc [kGkMP; dkx_{rk} o l elo; eYy [kkc [kGkMps dk_s kY; dk; žeku ; k ?kVdkps; k l | fLFkrhps pkp. kh} kjs fuj h{k. k dj. ks

2. ; kf_{xd} fØ; kP; k ek/; eknu [kGkMP; dkx_{rk}] eklo; o eYy [kkc [kGkMps dk_s kY; dk; žeku ; k ?kVdkps dk; žeku ok<fo. ; kl kBh dk; Øe r; kj dj. ks

3. ; kf_{xd} fØ; kP; k ek/; eknu [kGkMP; dkx_{rk}] l elo; o eYy [kkc [kGkMps dk_s kY; dk; žeku ; k ?kVdkps dk; žeku ok<fo. ; kl kBh dk; Øe jkcfo. ks

4. eYy [kkc [kGkMP; dkx_{rk}] l elo; o eYy [kkc [kGkMps dk_s kY; dk; žeku ; k ?kVdkps eksteiki rhu efgl; kP; k i f' k{k. kkurj dj. ks xfgrd%

5. eYy [kkc [kGkMw i o] e/; o mRrj pkp. kh nsruk rI p i f' k{k. kkr l ghkkxh gsrkuk l dkj kRed i frl kn nsrh-

2. l nj l ñ kks'ku vH; kl krhy l o_z l k/kus gh i žekf. kr vI rh-

3. l nj l ñ kks'kukr vkJ; h pykoj gks kkj k i fj. kke gk LokJ; h pkyp vI sy- i fj dYi uk%

2. H1 ; kf_{xd} i fØ; k_{eGs} eYy [kkc [kGkMP; k , dkx_{roj}] l kf_{kld} i fj. kke gkbly-

2. H01 ; kf_{xd} i fØ; k_{eGs} eYy [kkc [kGkMP; k , dkx_{roj}] l kf_{kld} i fj. kke gks kkj ukgh-

3. H2 ; kf_{xd} i fØ; k_{eGs} eYy [kkc [kGkMP; k l elo; ; k ?kVdkoj l kf_{kld} i fj. kke gkbly-

4. H02 ; kf_{xd} i fØ; k_{eGs} eYy [kkc [kGkMP; k l elo; ; k ?kVdkoj l kf_{kld} i fj. kke gks kkj ukgh-

5. H3 ; kf_{xd} i fØ; k_{eGs} eYy [kkc [kGkMP; k dk_s kY; dk; žeku ; k ?kVdkoj l kf_{kld} i fj. kke gkbly-

ε. H03 ; kf_{xd} i fØ; keGs eYy [kkc [kGkM]; k dks KY; dk; leku ; k ?Vdkoj I kfkl
i fj. kke gks kkj ukgh-
i fj I hek%

1. i Lr_r I dks/ku gs eYy [kkc [kGkM] j rø e; kf_{nr} vkg_s
2. i Lr_r I dks/kukr ॥ rs ॥ o; kxVkrhy eYy [kkc [kGkM] pkp I ekos k dj.; kr vkyk vkg_s
3. i Lr_r I dks/ku ukf' kd 'kgj krhy eYy [kkc [kGkM] j rø e; kf_{nr} vkg_s
4. i Lr_r I dks/kukr , dkxrk o I ello; ; k ?Vdkpkp fopkj dj.; kr vkyk vkg_s
I dks/ku i /nrh%

i Lr_r I dks/kukl kBh i k; kf_{xd} i /nrhph fuoM dyh vkg_s i k; kf_{xd} vfHkdYi Time Series Design.

i n_o pkp. kh & kekdGk oGh & e/; pkp. kh & i k; kf_{xd} i /nr & mRrj pkp. kh-

o₁ o₂ X.....o₃

U; kn' klu%

tul a[; k% i Lr_r I dks/kukl kBh ukf' kd 'kgj krhy ॥ rs ॥ o; kxVkrhy eYy [kkc [kGkM] gh tul a[; k gks -

U; kn' klu i Lr_r I dks/kukr ॥ n^{3/4} ॥ ukf' kd eYy [kkc Dyc] ukf' kd o ukf' kd o i fj I jkrhy [kGkM] ph I gnd ueuk fuoM i /nrhus fuoM dyh vkg_s
ekgrh I dyukph I k/kus % , dkxrk& cjk th-l h-vk; - dl ksh] I ello; & gMckly Vkl] eYy [kkc dks KY; dk; leku-

I a[; k' kL=h; I k/ku% e/; eku] i zek. kfopyu] e/; ekukrhy Qjd] i zek. k=vh e/; ekukrhy Qjd vkf. k , Q&i fj f{kdk b-

ekfgrhps I dyu o fo' ysk. k% i Lr_r I dks/kuke/; s I dks/kdkus dl kV; kP; k vkyY; k i klrdkP; k I kf[; dh; fo' ysk. kkl kBh SPSS I kVosj ph enr ?kou e/; eku] i zek. kfopyu] e/; ekukrhy Qjd] i zek. k=vh Qjd] Lo/khurk ek=k vkf. k , Q eY; s ; kpk oki j dyuk vkg_s

dk"Vd Ø- ९ cjk th-l h-vk; o gMckly Vkl dl kshph; k rhu pkp.; kps e/; eku] i ek.kfopyu o i ek.k =vh e/; ekukps o. kLukRed l kf[; dh

dl kshph	fo l kfph	e/; eku	i ek.kfopyu	i ek.k =vh
l a[; k				
cjk	pkp. kh Ø- ९	२७	७३.८८	१.०४
th-l h-vk; -	pkp. kh Ø- २	२७	७८.७६	०.८६
½, dkxrk	pkp. kh Ø- ३	२७	७८.३६	०.८७
gMckly Vkl	pkp. kh Ø- ९	२७	११.८०	१.३०
½ ello; ½	pkp. kh Ø- २	२५	२१.५२	१-१५
	pkp. kh Ø- ३	२५	२८-२८	१-१६

dk"Vd Ø- ९ e/; s th-l h-vk; - o gMckly Vkl ; k dl kshph; kps e/; eku] i ek.kfopyu] i ek.k=vh e/; ekukps l kf[; dh fo'ysk.k n'kfoys vkgst T; ke/; s th-l h-vk; - dl kshphs e/; eku ७३.८८ i ek.kfopyu १.०४ rj i ek.k =vh e/; eku १.०४ brds vkgst rj gMckly Vkl dl kshphs e/; eku i ek.k] i ek.k fopyu] i ek.k=vh e/; eku vu[es ११.८०, ६.७३, १.३० brds vkgst

pkp. kh Ø- २ u[kj th-l h-vk; - dl kshphs e/; eku] i ek.k fopyu] i ek.k=vh e/; eku vu[es ७८.७६, ८.८३ व ०.८६ brds vkgst rj gMckly Vkl] dl kshphs e/; eku २१.७२] i ek.k fopyu ७.७७ o i ek.k=vh e/; eku १.१५ brds vkgst

pkp. kh Ø- ३ u[kj th-l h-vk; - dl kshphs e/; eku ७८.३६] i ek.k fopyu ४.३४] i ek.k=vh e/; eku ०-८७ brds vkgst rj gMckly Vkl] dl kshphs e/; eku २८.२८] i ek.k fopyu ७.८१ o i ek.k=vh e/; eku १.१६ brds vkgst

dk"Vd Ø- २ xVkrhy rgyuk% th-l h-vk; - o gMckly Vkl dl kshph

dl kshph	oxkph cjh t	Lok/khurk ek=k	oxkps e/; eku	, Q eW;
cjk	xVkrhy	८३८७.७०	२	४१४६.८७
th-l h-vk; -	xVkrhxlr	१६४०.७६	७२	२२.७८
½, dkxrk				१८४.१४
gMckly Vkl	xVkrhy	१००४.७२०	२	१७०२.३६
½ ello; ½	xVkrhxlr	२६३७.८८०	७२	३६.६०
				१३.७२

dk"Vd Ø- २ u[kj xVkrhy o xVkrhxlr th-l h-vk; - o gMckly Vkl dl kshph rgyuk dsh vlrk , Q ps eW; vu[es १८४-१४ ० १३.७२ brds vkgst gs nkLgh eW; s ०.०९ ; k l kfkl drk lrjkj l kfkl vkgst R; ko: u vlrk fu"dkl djrk ; bly th-l h-vk; - o gMckly Vkl dl kshph; k rhu gh pkp.; kph l jkl jh dk; l kL=kh; n"Vsh k l kfkl Qjd vkgst

dk"Vd Ø- ३ pkp. ; kph cgfo/k rgyuk% th-l h-vk; - o gMckly Vkl dI kv/h

dI kv/ k	e/ ekukrhy Qjd	i eek. k =v/h
cjk pkp. kh Ø- १	pkp. kh Ø- २	४.८८
th-l h-	pkp. kh Ø- ३	२४.४८
vk; -	pkp. kh Ø- १	४.८८
	pkp. kh Ø- ३	१३.६०
	pkp. kh Ø- १	२४.४८
	pkp. kh Ø- २	१३.६०
gMckly Vkl	pkp. kh Ø- १	१.७२
	pkp. kh Ø- ३	८.४८
	pkp. kh Ø- १	१.७२
	pkp. kh Ø- ३	६.७६
	pkp. kh Ø- १	८.४८
	pkp. kh Ø- २	६.७६

dk"Vd Ø- ३ uq kj th-l h-vk; - o gMckly Vkl dI kv/ kph cgfo/k rgyuk dsyh vI rk th-l h-vk; - dI kv/he/; s pkp. kh Ø- १ o २ e/khy e/; ekukrhy Qjd ४.८८ vI u I a[; k' kkL=h; n"V/ k rks I kFkld ukgh- १०.०९% rj pkp. kh Ø\ १ o ३ e/khy e/; ekukrhy Qjd २४.४८ , o<k vkgs gk Qjd ०.०९ ; k I kFkldr Lrjkoj I kFkld vkgs rj pkp. kh Ø २ o ३ e/khy e/; ekukrhy Qjd १३.६० brdk vkgs dh tks ०.०९ ; k Lrjkoj I kFkld vkgs gMckly Vkl dI kv/hpk fopkj dsyk vI rk pkp. kh Ø- १ o ३ e/khy e/; ekukrhy Qjd १.७२ vkgs gk Qjd ०.०९ ; k Lrjkoj I kFkld ukgh- pkp. kh Ø- १ o ३ e/khy e/; ekukrhy Qjd ८.४८ brdk vI u I a[; k' kkL=h; n"V/ k rks ०.०९ ; k Lrjkoj I kFkld vkgs pkp. kh Ø- २ o ३ e/khy e/; ekukrhy Qjd ६.७६ brdk vkgs gk Qjd I qnk ०.०९ Lrjkoj I kFkld vkgs

ojhy nkLgh pkp. khph cgfo/k rgyuk dY; koj vI s y{kkr ; srs dh] fofo/k ; kfxd i fØ; keGs th-l h=vk; - dI kv/hP; k dk; lekukr rhu efgU; kP; k dkyko/khurj I a[; k' kkL=h; n"Vhdkukruu I kFkld v' kh ok< >kyh vkgs

rI p rhu efgU; kP; k ; kfxd i fØ; keGs [kGkMP; k gMckly Vkl dI kv/hP; k dk; lekukr rhu efgU; kurj I a[; k' kkL=h; n"Vhdkukruu y{k. kh; ok< >kyh vkgs vI s fun' kLkl vkys

fu"d"kk%

१. ; kfxd i fØ; keGs eYy[kkc [kGkMP; k , dkxrk ; k ?kVdkoj I kFkld i f. kke gksrks o ; k ?kVdkr ok< gksrks

2. ; kf_{xd} i fØ; ke_{Gs} eYy [kkc [kGkMP; k l ello; ; k ?kVdkoj l kf_{kld} i f. kke gks o ; k ?kVdkr ok< gks

3. ; kf_{xd} i fØ; ke_{Gs} eYy [kkc [kGkMP; k dks kY; dk; lekukoj ; k ?kVdkoj l kf_{kld} i f. kke gks o ; k ?kVdkr ok< gks

ppk%

ojhy l a[; k' kkL=h; fo' y'sk. kko: u vls vk<Gi u vkys dh] th-l h-vk; - ; k pkp. khP; k ekdG; k oGh 1/pkp. kh Ø- 8 o 2 njE; ku% P; k i klrkdkr l kf_{kld} Qjd vk<Gr ukgh- i z kxkoGh 1/pkp. kh Ø- 2 o 3 njE; ku%P; k dk; lekukP; k i klrkdkr l kf_{kld} Qjd vk<Grks ; k fBdk. kh l d kks/kdkus l d kks/ku i fjdYi uk Ø- 8 pk Lohdkj dsyk vkgs Eg. ktp ; kf_{xd} i fØ; kP; k dk; D_{eke}_{Gs} eYy [kkc [kGkMP; k , dksirk ?kVdkr ok< gks gs fl /n >kys

l ello; ; k ?kVdkpk fopkj dsyk vlrk vls fl /n >kys dh] gMckly VKI dI kvhP; k ekdG; koGh 1/pkp. kh Ø- 8 o 2 njE; ku% P; k i klrkdkr l kf_{kld} Qjd vk<Gr ukgh o i z kxkoGh 1/pkp. kh Ø- 3 o 8 njE; ku% P; k dk; lekukP; k i klrkdkr l kf_{kld} Qjd vk<Grks ; k fBdk. kh l d kks/kdkus i fjdYi uk Ø- 3 H_R pk Lohdkj dsysyk vkgs Eg. ktp ; kf_{xd} i fØ; kP; k dk; D_{eke}_{Gs} eYy [kkc [kGkMP; k l ello; ; k ?kVdkr ok< gks vls fl /n >kys

| nHkij iph

?kjkhj, e-, y- 12008%; kf_{xd} i fØ; kps ekxh'ku- yks kkoGk% yks kkoGk ; kx bfulVV; M- cll h] fc-i- 18888% f'k{k. kkrhy l d kks/ku vfhkjdYi- iqk% uru i ddk'ku- falkarkMj fo-jk- 18888)- 'kjkf. kd l d kks/ku i/nrh- iqk% fur; uru i ddk'ku- ns'keq[k] v- 12008% 'kkjhfd o ekuf d LokLF; kph xq fdYyh ; kxkl u- i pekoRrh] eukjek i ddk'ku- tkli u] ch-, y] usYi u] tsds 18888% 'kkjhfd f'k{k. kkrhy eM; eki ukl kBh i KR; f{k d eki u] 8 Fkh vkoRrh] ckst] . osy] ds, Q- o fMyu] blds 18888% iKB o ik; kP; k yophdrph dI kMh] f'l pI DokVYh] 23- iku 889&88C.

ejGj l qjk- 12008% fo/kf; kP; k , dksirk i k. kk; ekpk gks kkj k i f. kke- iqks fo/ki hB% f'k{k. k'kkL= foHkkx-

jkepnui] 12008% eYy [kkc [kGkMP; k dk; lekukoj gks kkj; k i oY{kh ?kVdkps fo'ys'k. k-