

**International Multidisciplinary  
Research Journal**

*Indian Streams  
Research Journal*

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## Welcome to ISRJ

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Indian Streams Research Journal is a multidisciplinary research journal, published monthly in English, Hindi & Marathi Language. All research papers submitted to the journal will be double - blind peer reviewed referred by members of the editorial board. Readers will include investigator in universities, research institutes government and industry with research interest in the general subjects.

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I eku oru ^l eku dk; Zdsfy, I eku oru^ , d eiy v{k/kdkj ugh gA bl bl I Ecl/k eaduk/d jKT; cuke I puzekfyuh 15% dk ckn egRoi w{kZgSbl ckn eaduk/d jKT; fl foxy I ok v{k/fu; e] 1990 ds v/khu jKT; f'k{k foHkkx eadk; j r i kVZVbe i pDrkvksdsfu; fer I ok eal fefyr dj usdsfy, cuk, x; sfo'kx fu; e 1996 dsfu; e 2/4/4ii% dh fof/k eku; rk pukfsh nh xbA ; kfpdkdrk dk dFku Fkk fd; s0; fDr; kdh cdk Mkj I s v{k I fpr p; u i fdz k ds i kyu fd, fcuk fu; fDr i nku dj uk eueukl gS v{k vuq 14 dk vfrde.k gA mPpre U; k; ky; us; g vfhkfu/kkj r fd; k fd

fof/k ds l e{k l erk ds vf/kdkj D; k vkj D; k

i KVZVbe i oDrkvkadsfu; fer l ok e*sl* fEefyr dj usdsfy, cuk; k x; k fu; e foHkndkj h ugh gSvkj vuq 14 dk mYaku ugh dj rk gSvr% l oskfu gA bl ds l kfk U; k; ky; us; g funk fn; k fd jkT; bl ckr dks l qf'pr dj af*d*, s0; fDr fo'ofo |ky; vunku vk; kx }jk fofgr %NET% i jh{k 3 o"kl ds vnj vo'; d i kI dj A bl ij h{k i kI dj usdsi 'pkr-gh , s vkefyr vH; Fkz dksfu; fer vgk okysv/; ki akadsi elu oru i kusdsgdnkj gks; fn osuV i jh{k eavurh. kl gks tkrsgSrksosvkefyr fd; stkusvkj fu; fer fd; stkusl so*sp*r gks tk; xA bl okn e*sl*; k; ky; usfu; e dksfof/kekU; ?kks"r dj rsgq] ml dsykwgkusdsrj hdsdksHk Li "V fd; k tksU; k; dj usdsfy, mfpr gA ; fn euekusdr; l sukxfj d dks {kfr gkhr gSrksj kT; upl kuh nusdsfy, mRrj nk; h gy[kuÅ fodkl i kf/kdj .k cuke , -dsxtrk 16½ dsckn e*sl*; g vflfu/kTj r fd; k x; k fd ; fn jkT; dseuekus i wkl dr; l sfdl h ulxfj d dh l Ei fR dks gkf u i gpkrt gSrksog i frdj nusdsnk; h gA bl ckn e*ay*[kuÅ fodkl i kf/kdj .k dh vi hy dksmPpre U; k; ky; us [kfk t dj fn; k vkj ; g fu. k<sup>2</sup> fn; k fd y[kuÅ fodkl i kf/kdj .k dk dk; z vU; k; i wkl Fkk] vr% og i R; Fkz dks 10]000 : i ; si frdj nusdsnk; h gA

bM; u dkmfll y vkQ yhxy , M , .M , Mokbl cuke cki dll y vkQ bM; k/17%Adsekeyseckj dll y vkQ bM; k }jk k cuk, x; sfu; e 9 dh fof/kekU; rk dksbl vk/kT i j pukh nh xbZFk fd og eueuk vkj foHkndkj h gSvkj vuq 14 dk vfrde.k dj usdsdkj .k vosk gsfu; e 9 e*sl*; g mi cfll/kr fd; k x; k Fkk fd 45 o"kl dh vk; q1 svf/kd 0; fDr; k dks vf/koDrk ds : i e*sl* mudk i atk; u ugh fd; k tk; xA mPpre U; k; ky; us dgk ; g fu; e foHkndkj h eueuk , oa v; fDr; Dr gSvkj vuq 14 dk mYaku dj rk gSvr%vosk gA

mMh k jkT; cuke cyje l kg/18½ dsckn e*sl* i R; Fkk. k mMh k jkT; dsj xkyh i koj i kstDv eansfud Hkxh rnFkz dedkj ds: i eadk; j r FkA muds }jk k elsk dh xbZfd mUgaLFkkz depkfj; kadsi elu oru feyuk pkfg, D; k*id* osmUgh ds l elu dk; Zdj jgsFkA U; k; ky; usfu. k<sup>2</sup> fn; k fd osLFkk; h depkfj; kadsi elu ugh gsk fy, osLFkk; h dedkj kadsi elu oru i kusdsgdnkj ugh gSD; k*id* mudsdr; vkj mRrj nk; Ro LFkk; h depkfj; kadsi elu ugh gA

dfe'uj uxj fuxel} gbj kckn cuke i h-ej h eukj at uh/19½ dsekeyse*ai* R; Fkz usukl d*jh* l s*inP*; q dh fof/k e*sl*; rk dks U; k; ky; e*sl* pukh fn; k Fkk uxj fuxe us jkT; l j dkj l s vuj k fd; k Fkk fd depkfj b*D* p*llt* }jk k Hkst s x; s vH; Fkz kadsfu; fer fu; fDr dsfy, vuefr ns fd vurqfu; fDrdrk dks vuq 14 vkj 16 ds v/u*hu* puko dsfu; ekadk i kyu dj usdh NW ugh nh x; h FkkA vH; Fkz fyf[kr i jh{k eaugh clk vkj dbZo"kl rd vi uh dRrD; l s vuj flFkr j gkA mPpre U; k; ky; us; g vflfu/kTj r fd; k fd , s vH; Fkz dks l ok e*sl* gusdk dkkz vf/kdkj ugh gSvkj ml dh i nP; fR l oskfu bl NW doy vH; Fkz dksuke Hkst usaksnh xbZFk u fd vuPN 14 vkj 16 eafogfgr ; k vU; dkuuh fu; ekal snh xbZFkA

vuq xxZcuke Hkjk r gk/y l 2k/20½ dk ckn L=h , oai q "k eafyx ds vk/kjk i j Hk*n* dj usl s*l* Ec*ll*/kr gA bl ckn e*sl* R; kFkz kausi atkc l j dkj dsml vf/kfu; e dh /kjk k 30 dh fof/k e*sl*; rk dks pukh nh Fkk ft l ds }jk k l j dkj usgk/y ; k cki e*sl* ft l e*sl* kjk i jk k tkrk gsk efgyk vksdsfu; kstu i j jk k yxk nh FkkA mudk dFku Fkk fd ; g muds vuq 14 ds v/u*hu* l erk ds v/u*kr* dk mYaku dj rk gSvkj foHkndkj h gsk efgyk vks dksj kdk tk jgk gA vkt efgyk, agk/y i clk kjk ean{kkrk gsk fy d j jgh gA U; k; ky; us; g fu. k<sup>2</sup> fn; k fd l j dkj , s h i fflfr; k*ll*mRi lu dj a*ft* l s efgyk, l j fflkr j gdj vi uh thfdok pyk l d*sl* ; g fu; e L=h , oai q "k eafyx ds vk/kjk i j Hk*n* dj rk gSvr%vosk gA

, d vU; egRoi wkl ckn /kjk l n*u* vk cuke mMh k jkT; 1/21½ e*sl*; kfpdk drk dk mMh k uxj fuxe e*sl* k*lh* dk fuokpu bl /kjk k i j vosk ?k*ll*kr dj fn; k x; k Fkk fd og dks+dk j ksh FkkA ; g fuj gllrk mMh k uxj fuxe vf/kfu; e dh /kjk k 16 1/4vk vkj 17 1/4vk 18½ ds vurx r fofgr Fkk bl ckn eamPpre U; k; ky; us; g vflfu/kTj r fd; k fd mMh k jkT; ds vf/kfu; e }jk k fofgr fd x; k Fkk fd fpRr fodr 0; fDr; ks; k tks d*ll*V dsj ksh gsk; k gksx; sgsk vkj vU; dschp fd; k x; k oxhdj .k v; fDr; Dr ugh vkj ml dk ml mn*as*; l sft l s*ml* vf/kfu; e }jk k i k*lr* dj uk vi f{kkr gS%vFlkr , s j ksh ds feyusl s*u* 0; fDr; kadsj k*ll* j gusdk [krj k*ll*mfpr l Ec*ll*/k gsk vr%og l fo/kku ds vuq 14 dk mYaku ugh dj rk gSrFkk osk gA

## mi l gkj

Hkjk rh; l f*c*/kku ds vuq 14 eafn; k x; k ^f*of*/k ds l e{k l erk^ dk vf/kdkj ekueku u dsfo: ) , d l j {k. k gsk ; |fi l elu dk; Zdsfy, l elu oru vuq 14 ds vurx r , d e*ly* vf/kdkj gsfd*ll*urq; g doy dk; Zdh i dfr ; k dk; Zdh ek=k i j fuHkjk ugh dj rk gscfYd fo'ol uh; rk vkj mRrj nk; Ro ds l clk eam*l* dsxq k*ll*red vurj i j fuHkjk dj rk gSvkj ; |fi dk; Zl elu gks l drk gsfd*ll*urqmRkr nk; Ro gh okLrfod , oal k*jk* oku vurj dj rk gA bl l clk e*sl*; k; efrzJh Hkxhor useudk xlk cuke Hkjk r l 2k/22½ dsckn ; g 0; Dr fd; k gsfd % ^i erk , d xfr'hy vo/kjk .k gsft l ds: i o v*k*; ke gSvkj bl si jEi jkxr o fl ) k*rokn* dh l hekveaugh clk tk l drk gSvuq 14 jkT; dh dk; bkg; k*es*euekus i wkl dr; dkssoftk dj rk gSvkj l elu 0; ogk j dh vi f{kkr dj rk gsk; fDr; Dr dk fl ) k*lr* l erk dsfl ) k*lr* dk vkj ' ; d rRo gsk tks vuq 14 e*sl* ohk fo l elu j grk gsk o*lr*%l erk o eueuki u , d n*ll* j sds'k=qgskvkj tg*ll*l v*l* ekurk vo'; gksA ft l s

fof/k ds l e{k l erk ds vf/kdkj D; k v{k D; k

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vuf&14 dk vfrde.k ekuk tk; xkA

### I nHkzI ph

1/1½ bkyS M dh l fo/kkud dk l i fj fpr fo}ku y[kd Mk; l h egkn;

1/2½ nkzhkl & Hkkj r dk l fo/kku , d i fj p; r fglnh l ddj 1989 i s 086

1/3½ vuf 12 ejkt; dksifj Hkkf'kr fd; k x; k gA

1/4½ l kfo; r l ektoknh tura dk l fo/kku vuf 39

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1/6½ ekuof/kdkj ks dh l oHkkfed ?kks. kk & Hkkj r eafof/k v{k U; k; eakly; dsjkt; Hkk"kk [km 1988 eafglnh vxst h eai zdkf'krA

1/7½ ekuof/kdkj ks dh l oHkkfed ?kks. kk 1/1 l s31 rd½

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1/9½ ekuof/kdkj ks dh l oHkkfed ?kks. kk uked i lrd Hkkj r l jdkj usi "B 24 l s30 rd 1/dy 53 vuf eai zdkf'kr½

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