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HkdEi % & nf{k.kh fcgkj jkT; d ,d i;kZoj.kh; HkkSxksfyd v/;;u

Mk fuye dekjh
lgk;d izk/;kid] Hkxky foHkkx
ek Ckkx"ojh dky t]x;k

ifjp; %

HkdEi dk शाब्दिक vFk gkrk g iFoh dk fgyukA lk/kkj.k vFkk e HkdEi og ?kVuk g ftld }kjk HkiVy (Earth crust) e gypy mRiUu gkrh g rFkk dEiu gku yxrh gA ;g dEiu तरंग d :i e gkrh gA tl&tl og rjx dUn l nj gkrh tkrh g mudh शक्ति rFkk rhork e âkl gkrk tkrk gA

“An earthquake can be defined as a rapid and discernable tremer or movement caused by fracturing of the rocks in the earth’s crust’.

HkdEi dk iHkko ik;% nk :ik e gkrk gA iFke iHkko mRifÙk dUn l pkjk rjQ rjxk d }kjk ilkfjr gkrk gA bldk iHkko {kfrt gkrk gA f}rh; iHkko dEiu gku ij /kjkryh; Hkkxk e Åij rFkk uhp dh rjQ yEcor :i e /kDlko gku yxrk gA HkdEi का यह रूप अत्यन्त विनाषकारी होता है।

HkdEi dh rhork (Intensity) rFkk ifjek.k (Magnitude) dk ekiu fjpj ekid d vk/kkj ij fd;k tkrk gA bl ekid dh jpuk pkYl ,Q0 fjpj (Charles, F. Ritcher) u 1935 e dh FkhA bl ekid ij vfdr vd] tk HkdEi dh rhork ;k ifjek.k & M dk bfxr djrk g] 0 l 9 d chp gkr g] yfdu bl ekud dh dkb Åijh lhek ugh gkrh gA vc rd fjrj ekid ij 9-3 ¼lek=k lukeh d le;] 2004½ ifjek.k oky HkdEi dk fjdkM miyC/k gA fuEu rkfydk e HkdEi ifjek.k ekid rFkk HkdEi dk iHkko प्रदर्शित fd;k x;k gA

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HkdEi dk iHkko ik;% nk :ik e gkrk gA iFke iHkko mRifÙk dUn l pkjk rjQ rjxk d }kjk ilkfjr gkrk gA bldk iHkko {kfrt gkrk gA f}rh; iHkko dEiu gku ij /kjkryh; Hkkxk e Åij rFkk uhp dh rjQ yEcor :i e /kLko gku yxrk gA HkdEi dk ;g :i vR;Ur विनाशकारी gkrk gA

<u>v/;;u {k=</u> %& fcgkj d enkuh Hkkx dk nk oxk e ckVk tkrk g & mÙkjh fcgkj ;k xxk dk mÙkjh fcgkj enku ,o nf{k.kh fcgkj ;k xxk dk nf{k.kh fcgkj dk enkuA दक्षिणी बिहार का भाग गंगा नदी के दक्षिण स्थित है। यह पष्चिम में चौड़ा तथा पूर्व में l dh.k gA bldk dy {k=Qy 33]670 ox fd0 eh0 g tk i.k enkuh Hkkx dk 37-15 प्रतिषत है। “The South Ganga Plain popularly known as South Bihar Plain spans over greater part of Patna and Bhagalpur Divisions between the Gangaand 100 metre contour line: (Singh and Kumar, 1970, 10). ;g enkuh Hkkx mÙkjh fcgkj d enku l fHkUu gA bl enkuh Hkkx e db igkfM;k ikb tkrh gA ; igkfM;k NkVkukxij d iBkj dh cfgoÙkh (Out-lier) Hkkx gA ;g enkuh Hkkx Hkh xxk unh rFkk nf{k.k e NkVkukxij d iBkjh Hkkx l fudyu okyh ufn;k d }kjk yk;h gb feêh l fufer gA

<u>शोधk&dk;l dk उद्देश्य</u> (<u>Purpose of the study</u>) : वर्त्तमान शोध–कार्य का उद्देश्य है nf{k.kh fcgkj dh vkinkvk (Disasters) dk विश्लेषण dj mldk foLrkj e v/;;u djuk gA ;gk d l[kk] ck<] HkdEi d dkj.k] diHkko rFkk mudk ic/ku ,o fu;ktu ekuo d"Vk rFkk i;koj.k vlryu d i"BHkfe d nf"Vdk.k l djuk gA

<u>ifjdYiuk</u> **(<u>Hypotheses</u>):-**

- nf{k.kh fcgkj xgjh dki feêh teko dk {k= gA ;g HkdEi iHkkfor {k= (Seismic zone) d vUrxr vkrk gA 1934 dk HkdEi lofofnr gA
- vkink d lc/k e tkx:drk आवश्यक gA

- ljdkj rFkk Lo;&loh lLFkkuk }kjk tkx:drk] cpko dk;k dh 0;oLFkk ij tkj nh tk jgh gA mfpr <x l vkink ic/ku gkuh pkfg,A

<u>HkwdEi dh mRifÙk dk dkj.k</u> ½ HkdEi dk ey dkj.k iFoh dh lrfyr voLFkk e v0;oLFkk dk gkuk gA ;gh dkj.k g fd vf/kdrj Hkdi ik;% detkj rFkk v0;ofLFkr HkiVy e vkr gA iFoh dh lUrfyr voLFkk e v0;oLFkk d ie[k dkj.k fuEufyf[kr g %&

1- VDVkfud lyV ldpu (Plate Tectonic Movement) }kjk
2- yphyk ifr{ki fl)kUr (Elastic rebound theory)
3- Hk&lUryu d v0;oLFkk (Isotatic disturbances)
4- /kjkry e fldMu (Contraction in the crust)
5- xl dk Qyko (Spread of Gas)
6- Tokyke[kh fØ;k }kjk (Valcanicity)

<u>lyV fuoru fl)kUr</u> (<u>Plate Tectonic Theory</u>) : bl fl)kUr d ek/;e l HkdEik d mRiUu gku dh lEi.k ifØ;k dk HkyhHkkfr 0;k[;k lHko gk x;h gA lyV fuoru fl)kUr d vuqlkj iFoh dh ØLV dh jpuk 6 ie[k lyVk (Plates) l gb gA ¼;jfl;u lyV] vefjdu lyV] vÝhdu lyV] bf.M;u lyV] iflQd lyV rFkk vVkdfVd lyV½ bud vfrfjDr 20 xk.k lyVl Hkh gA iFoh d vUrjky e mRiUu gku okyh rkih; logu rjxk (Thermal convection current) l ifjr gkdj ; lyV ,d nlj d lnHk e lnk गतिशील gkr jgr gA leLr foorfud (Tectonic) ?kVuk; bu lyVk d fdukj d lgkj ?kfVr gkrh gA

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lyV lhekvk dk fuEu 3 idkjk e foHkkftr fd;k tkrk g%&

¼d½ jpukRed lyV lhek (Constructive Plate Boundary),

¼[k½ विनाशी lyV lhek (Destructive Plate Boundary) vkj

¼x½ lj{kh lyV lhek (Conservative Plate Boundary)

अधिकांश HkdEi bUgh lyV lhekvk ij ?kfVr gkr gA

jpukRed lyV % jpukRed lyV fdukjk dk fuek.k e/; egklkxjh; dVdk (Mid-oceanic Ridges) d lgkj gkrk gA ,l {k=k e nk lyV foijhr दिशाआ e गतिशील gkrh gA bu lyVk d i"B fdukj gh jpukRed lyV gkr gA bl fLFkfr e exek (Magma) eVy (Mantle) l dVd d lgkj idV gku yxrk gA bl idkj ykok d mij mBu l lyVk d jpukRed fdukjk ij ub Ø"V dk fuek.k gkrk jgrk gA lkFk gh lkFk vil j.k d dkj.k jpukRed fdukjk ij मंशन dk fuek.k Hkh gkrk gA

विनाशात्मक lyV % nk fofHkUu दिशाआ e l ,d nlj dh vkj गतिशील gkuokyh lyV dk विनाशात्मक lyV dgr gA bu nk lyVk d vkilh VdjkgV d dkj.k vFkok Hkkjh lyV d Åij gYdh lyV vku l mRFkku d dkj.k HkxfHkd gypy gkrh g ftll HkdEi mRiUu gk tkrk gA

lj{kh lyV % HkxfHkd gypy d }kjk tc nk गतिशील lyV d nlj d cxy l fcuk fdlh VdjkgV l xtj tkr g rk mUg lj{kh lyV dgk tkrk gA bu lj{kh lyVk d fdukj foorfud /kVuk; tl & oyu (Fold), भ्रंशन (Faulting), jxMu (Friction) rFkk Tokykeq[kh mnHkknu (Vulcanicity) dh fØ;kvk d lfØ; gku l HkdEi vkr gA

fcgkj jkT; d iR;d tku@{k= e HkdEi dh rhozrk,

Hkkjr e HkdEi d 5 tku gkr g ftle ,d tku e nf{k.kh fcgkj jkT; Hkh शामिल है ;g {k= vf/kdre tkf[ke dk {k= rFkk T;nk HkdEi dh lEHkkouk j[krk gA Hkkjr e tk 5 tku g o fuEufyf[kr g%&

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1- <u>Ek.My ,d</u> (<u>Zone I</u>) : bl d vUrxr HkdEi }kjk lHkkfor U;ure {kfr d [krj oky LFkkuk dk lfEefyr djrk gA bl e.My d vUrxr itkc ,o gfj;k.kk dk dN Hkkx] mÙkj प्रदेश d enkuh Hkkx dk fgLlk] xknkojh dk MYVkb Hkkx] djy ,o egkjk"V d rVh; enkuh Hkkx] jktLFkku d jfxLrkuh Hkkx ,o dPN dk NkMdj xtjkr d अधिकांश Hkkx vkr gA

2- <u>Ek.My nk</u> (<u>Zone II</u>) : U;u {kfr tkf[ke oky {k=k dk दर्शाता gA bld vUrxr nf{k.kh itkc ,o gfj;k.kk] mÙkj प्रदेश d enkuh Hkkx d nf{k.kh fgLl] ioh jktLFkku] mMhlk d rVh; fty] rfeyukM vkfn vkr gA

3- <u>Ek.My rhu</u> (<u>Zone III</u>) : lkekU; {kfr tkf[ke oky {k=k dk lfEefyr djrk gA bl e.My d vUrxr nf{k.kh ,o nf{k.kh&ioh jktLFkku] अधिकांश e/;

प्रदेश, महाराष्ट्र एवं कर्नाटक के अधिकांश भाग, झारखण्ड का उत्तरी एवं उत्तरी–पच्छिमी उड़िसा आदि आते हैं।

4- <u>e.My pkj</u> (<u>Zone IV</u>) d vUrxr mPp {kfr tkf[ke (High damage risk) oky {k= lfEefyr g ftle tEe ,o कश्मीर, हिमाचल प्रदेश, उत्तरी पंजाब तथा हरियाणा, दिल्ली, पश्चिमी उत्तर प्रदेश, उत्तराखण्ड एवं बिहार का उत्तरी भाग तथा सिक्किम के क्षेत्र आते हैं।

5- <u>e.My ikp</u> (<u>Zone V</u>) : ;g vR;f/kd {kfr tkf[ke e.My (Very high damage risk zone) dk g ftld vUrxr tEe ,o काश्मीर के कुछ भाग, हिमाचल प्रदेश के कुछ भाग, उत्तराखण्ड, उत्तरी बिहार का सुदूर उत्तरी भाग (मुंगेर, दरभंगा सहित उत्तरी भाग), समस्त पूर्वोत्तर भाग, गुजरात के कच्छ वाले भाग आता है।

<u>fcgkj jkT; d iR;d tku@{k= e HkdEi dh rhork,</u>

<u>flfLed tku V (Seismic zone V)</u> : ;g {k= e vf/kdre tkf[ke dk tku g rFkk cMk HkdEik dh lHkkouk j[krk gA ,l HkdEi tk ijk gMdEi epk ldr g rFkk

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thou ,o lifr dk Hkkjh {kfr igpk ldr gA बिशेष :i l fMtkbu dh xb ljpukvk rd e mYy[kuh; {kfr gk ldrh gA bekjr e Hkkjh {kfr tk आंशिक :i l ;k ijh rjg <g ldrh gA jy iVfj;k eM tkrh g vkj lMdk dk udlku igprh gA tehu e vud lVhehVj pkMh njkj iM tkrh g] Hkfexr ikbi VV tkrh g] vud txg HkL[kyu gkrk gA pêku fxjrh g rFkk dhpM cgrk g] ikuh e विशाल ygj mRiUu gk tkrh gA tgk bldh rhork vf/kd gkrh g] ogk भूपरिदृश्य में बदलाव के साथ पूरा विनाश gk ldrk g ftll ufn;k dk ekx rd cny ldrk gA

Rkhork 9 vkj mll vf/kd iHkkfor fty % vjfj;k] njHkxk] e/kcuh] leLrhij] liky

flfLed tku IV (Seismic zone IV) : ;g tku icy HkdEi dh lHkkouk j[krk g ftll gj txg gMdi ep tkrk gA Hkkjh Quhpj b/kj&m/kj gk tkrk gA ,l Hkdi l vPN fMtkbu fuek.k okyh ljpukvk dh Hkkjh {kfr gk ldrh gA bld vU; iHkkok e [kMh <kyk ij HkL[kyu tehu e dN lVhehVj pkMh njkj iMuk rFkk >hyk d ikuh dk xnyk gkuk vkrk gA rhork 8 gkrh gA iHkko {k= & iVuk ler 24 ftyA

flfLed tku III (Seismic Zone III) : bl tku e vf/kd rho oky Hkdi egll fd; tk ldr gA ,l Hkdi tk gj fdlh dk Mjk nr g] ykxk d fy, [kMk gkuk dfBu gk tkrk gA okguk e lQj dj jg ykx Hkh ,l Hkdik dk egll dj ldr gA vPN fMtkbu vkj fuek.k okyh ljpukvkA bekjrk e Hkkjh {kfr gkrh gArhork 7.

iHkkfor fty % Hkktiij] cDlj] x;k] tgkukckn] dej] uoknk] jkgrklA

अधिकांश fcgkj ¼nf{k.kh fcgkj½ dh Hkdi uiky e dfUnr ¼mRiUu½ Hkdik dk ifj.kke ?kfVr gkrh gA

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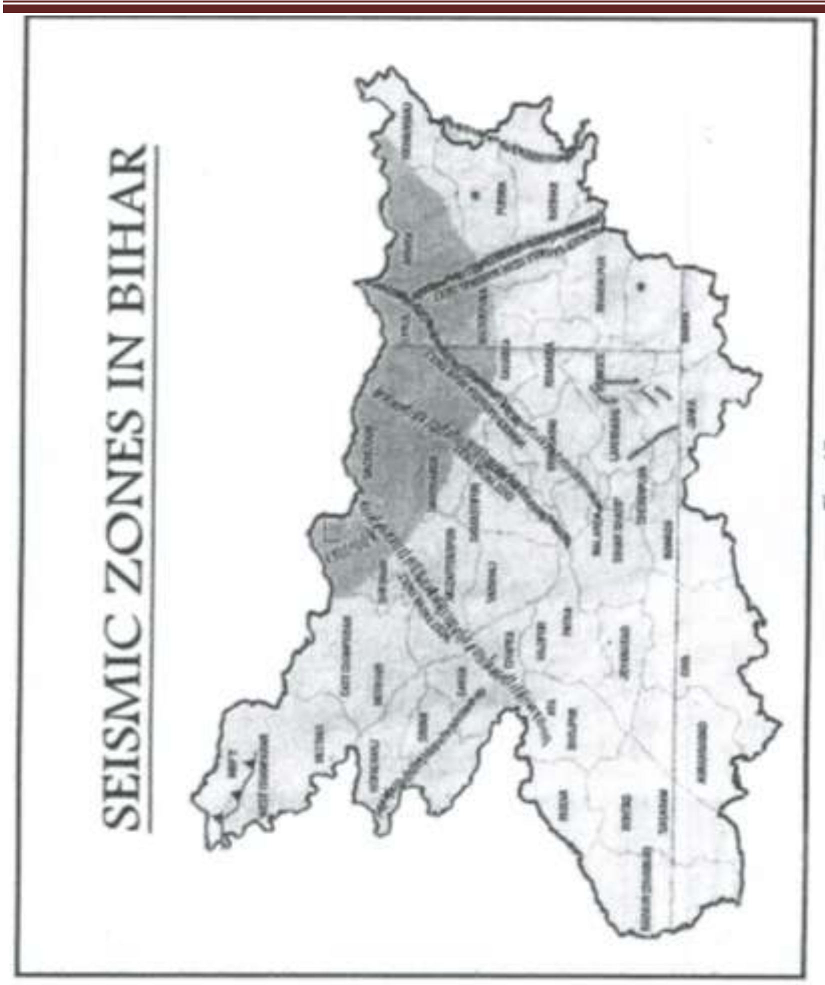

Fig:- 17

nf{k.kh fcgkj dh iue[k ?kfVr Hkdi %

15 tuojh] 1934 % uiky vkj fcgkj e 8-1 dh rhork oky HkdEi e 10]700 ykxk dh ekr gb FkhA tcfd bl Hkdi l uiky d dkBekM] HkDrij vkj ikVu e Hk;dj {kfr gb FkhA gtkjk edku tehnkt gk x, FkA fcgkj e exj ftyk vfr {kfrxLr gvk FkkA lhrke<h e dkb Hkh ?kj ugh cpk FkkA e/kcuh fty d jktuxj e dkb Hkh dPpk edku Hkdi d >Vd dk बर्दाश्त ugh dj ldk FkkA njHkxk jkt d ifl) uk yD[kk lyl dh nhokjk e Hkh njkj iM xb FkhA jyo ykbu dh iVfj;k V<h&e<h gk xb FkhA 1934 d Hkh"k.k Hkdi d ckn egkRek xk/kh vkj tokgjyky ug: lfgr देश d vud cM urkx.k fcgkj vk; FkA

20 vxLr] 1988 % uiky e 6-8 dh rhork oky HkdEi e 721 ykxk dk uiky e vkj iMkl h Hkkjrh; jkT; fcgkj e 270 ykx dh eR;q gb FkhA ble njHkxk rFkk e/kcuh fty e lokf/kd {kfr gb Fkh] gtkjk dh l[;k e dPp edku क्षतिग्रस्त g; FkA njHkxk e ,d Ldy vkj ,d vLirky dk Hkou ijh rjg {kfrxLr gk x;k FkkA lk/kkj.kr% lEi.k fcgkj bl Hkdi l iHkkfor gvk FkkA

25] viy 2015 dk Hkdi %% uiky e 81 lky dk lcl शक्तिशाली HkdiA ,ojLV dk cl di rckgA vkikrdky ?kkf"kr] gtkjk QlA tudij efnj dk Hkh {kfrA bl HkdEi dk dUn uiky fLFkr ik[kjk LFkku ij FkkA

fgeky; dh xkn e cl uiky e 25-4-2015 dk शक्तिशाली HkdEi d >Vdk u ockn dh xbi bckjr fy[k nh vud >Vd vk;A gj vkj rckgh dk etj] gj pgj ij दहशत] vk[kk e vkl vkj vkleku e eyo xckj gA 7-9 dh rhork oky Hkdi e 1500 ykxk dh ekr gk xbi ¼tk ckn e c<dj 10]000 rd igp xbi FkhA

& gtkjk ?kk;y] ldMk ykirk

& /kjgjk Vkoj d eyo l feyk 250 शव

& yketx Fkk Hkdi dk dUn

& ,ojLV fgyk

& uiky rckg] Hkkjr d 19 jkT; dki] 63 dh ekrA

fcgkj e Hkdi l 58 dh ekr

& 1988 d ckn vc rd dk lcl cMk bykdk iHkkforA

& देश e 19 yk[k ox fd0eh0 {k= e >VdA

& nj jkr ok; luk d nk foeku 155 ykxk dk ljf{kr ydj vk,A

& 3 yk[k विदेशी VfjLV vHkh uiky e Ql gA

& Hkkjrh; nrkokl dk edku Hkh <gk

& dkBekM dk ,;jikV cn] db mMku iHkkfor

& 183 lky ijkuh uiky dh drcehukj <ghA

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<u>HkwdEi dk dkj.k</u> ½ bfM;u lyV d dkj.k gj lky 5 feyhehVj Åij mB jgk g fgeky;(blhfy, lcl vf/kd HkwdEi vkr g uiky eA

uiky e 25-4-15 e vk, HkwdEi l Hkkjh rckgh gbl g vkj 1934 d ckn lcl cMk HkwdEi ekuk tk jgk gA uiky e HkwdEi vkr jgr g vkj blhfy, ml nfu;k e lcl T;knk Hkdi lHkkfor bykdk e ,d ekuk tkrk gA bru Hkdi D;k vkr g] ; le>u d fy, ge fgeky; dk n[kuk gkxkA chch lh d vulkj bl {k= e iFoh dh bfM;u lyV ¼Hkkjrh; HkxfHk; ijr½ यूरेशियन lyV d uhp tk jgh g vkj bll gj lky fgeky; ikp feyhehVj Åij mBrk tk jgk gA bll pêkuk d <kp e ,d ruko ink gk tkrk gA tc ; ruko pêkuk d बर्दाश्त d ckgj gk tkrk g rk o Hkdi vkrk gA vHkh nfu;k e dkb Hkh oKkfud ; vnktk ugh yxk ldrk g fd nfu;k e dc] dgk vkj fdruh rhork okyk Hkdi vk,xk] yfdu oKkfud bruk t:j ekur g fd fgeky;h {k= (Himalayan area) में बड़ा भूकंप आने की आषंका है। वैज्ञानिक प्रयास dj jg g fd dkb ,lk rjhdk तलाशा tk; ftle Hkdi d vku dh lHkkouk dk irk yxk;k tk,] yfdu vHkh ble dkb lQyrk ugh feyh gA ¼HkkLdj] 26-4-2015½

<u>fcgkj dh fLFkfr</u> (<u>Situation in Bihar</u>)

fcgkj e 24 ?kV मुश्किल dA nkgjk vyVA fcgkj d ekle foHkkx d vulkj bl nkjku vk/kh o Hkdi d >Vd egll fd, tk ldr gA uiky l lV ekfrgkjh] lhrke<h] e/kcuh] lqiky] vjfj;k] किशनगंज vkj njHkxk ftyk e ld.Mjh >Vd vku dh आशंका g] ij bldh rhork vf/kd ugh gkxh vkj mRrj&ioh ftyk e rt बारिश d lkFk vk/kh rQku dh आशंका cuh gbl gA

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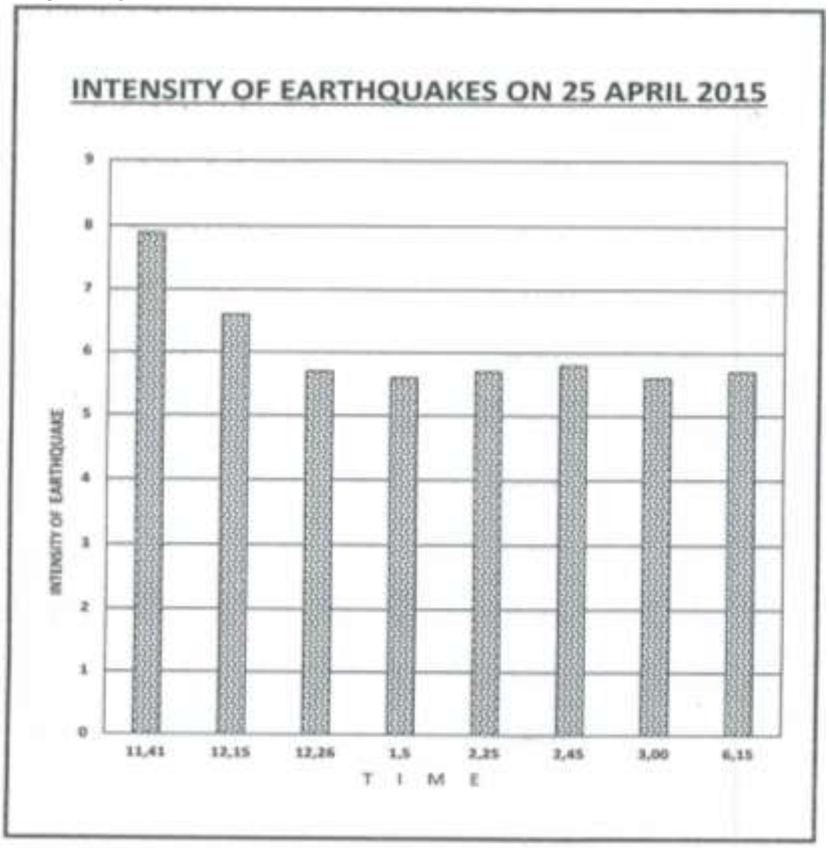
Hkdi dh rhork (Intensity of Earthquake)

25.4. 2015 dk

le;	Hkdi dh rhork
11-41	7-9
12-15	6-6
12-26	5-7
1-50	5-6
2-25	5-7
2-45	5-8
3-00	5-6
6-15	5-7

शेष >Vdk dh rhork fjDVj Ldy ij 5 ;k blls de ekih xbA24 ?kV e 17 >Vd vk pd gA



iHkko ,o ic/ku %

- फुलवारीशरीफ e nhokj fxju l cPph o NTtk fxju l etnj dh ekr
- ?kj l yxrk g Mj] ykVu dk r;kj ughA
- uiky l ykxk dk ljf{kr okil yku d fy, jDly d jkLr ik[kjk Hkth xb 50 clA
- dkBekM Hkth xb 30 cl] विदेशी ukxfjdk dh Hkh dh tk;xh ennA
- ,cyl o nokb;k d lkFk 25 lnL;h; MkDVjk dh Vhe uiky jokuk] [kk| idV Hkh Hkt x;A
- uiky e NkV&NkV xko dk vfLrRo lekIr gku dk [krjkA

Hkdi l cpu dk mik;%&

ikdfrd vkink, lkoHkkfed lR; gA igy Hkh vkrh Fkh] vkt Hkh vk jgh g vkj vkx Hkh bud vkr jgu dk vueku gA blkuh dkjLrkfu;k d pyr budh iofr vkj rhork e vkx pydj btkQ d Hkh bdkj ugh fd;k tk ldrkA bul doy lpr jgdj gh tku&eky d udlku dk de fd;k tk ldrk gA gky gh e uiky vkj Hkkjr d fgLlk e vk, tyty (Earthquake) u ekuork dh py fgyk nhA =klnh u viuh vfre rkdr fn[kkb vkj ijh nfu;k dk ldr e Mky fn;kA viu ,d gh >Vd l ijh cLrh dk mtkM fn;kA lcd ihN NkM fn;k] fpRdkj] d:.k Ønu vkj cgkyh vkj cclhA

geu ,lh vkinkvk l cpu d fy, vkink icU/ku r= fodflr fd, gA blh d cr dN दशक igy ,l gknlk e ekj tku okyk dh l[;k dk xkQ ?kVdj cgr uhp igp pdk gA vc t:jr g bl xkQ dk शून्य dju dh gA bld fy, ljdkj l ydj] lekt rd dk tkx:d gkuk iMxkA ,lh vkinkvk d le; tc vke ykx viuh fgQktr dk guj [kn lh[k tk,x rk lc dN Bhd gku e nj ugh yxxhA Hkou fuek.k rduhd l nfu;k d db देशों e vkinkvk dk शिकस्त nu dk dke fd;k

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tk jgk gA Hkdijk/kh Hkou fuek.k d पेशेवरों dk bekjrk dh tkp d fy, vf/kdrj l iUu djuk pkfg,A fuek.k dk;k d lc/k e dBkj iko/kku fd; tku pkfg,A

lnHk

,d अंश] nfud HkkLdj] ,d nfud lekpkj i=] x;k l fu"dkflr] 26-4-2015] i0 4

,d अंश] nfud tkxj.k] ,d nfud lekpkj i=] iVuk l fu"dkflr] 25-5-2015]i0 1

,d अंश] iHkkr [kcj] ,d nfud lekpkj i=] iVuk l fu"dkflr] 13-5-2015] i0 1

flg] lfoUn] 2015] i;koj.k Hkxky] i;kx iLrd Hkou] bykgkckn] i0 387&88-