

iapo'khZ; leh{kk ny }kjk d`f'kokfudh dk Hkze.k

Hkkjrh; d`f'k vuqla/kku ifj'kn~] ubZ fnYyh] d`f'k ea=ky;] Hkkjr ljdkj }kjk xBr iapo'khZ; leh{kk ny (QUINQUENNIAL REVIEW TEAM) us Mk- Mh-,u-frokjh] iwoZ lnL;] ;kstuk vk;ksx ,oa iwoZ egkfunskd] Hkkjrh; ou vuqla/kku ,oa f`k{kk ifj'kn~] nsgjknwu ds usr`Ro esa 6 ,oa 7 tqykbZ] 2012 dks dsUnz dk Hkze.k dj fiNys 05 o'kksZa ds vuqla/kku dk;ksZa dh leh{kk dh rFkk vkxkeh 05 o'kksZa ds fy, fn`kk&funSZ`k fn;sA leh{kk ny esa Hkkjrh; d`f'k vuqla/kku ifj'kn~] ubZ fnYyh dk izfrfuf/kRo mi egkfunskd ¼izkd`frd lalk/ku izcU/ku½ Mk- ,- ds- flag us fd;kA blds vfrfjDr leh{kk ny esa Mk- vkj- ,u- fejk] iwoZ iz/kku eq[; ou laj{kd] NRrhlx<+ "kklu] Mk- ,- vkj- vk;kZ] iwoZ mi egkfunskd] Hkkjrh; ou vuqla/kku ,oa f`k{kk ifj'kn~] nsgjknwu] Mk- t-s ih-fejk] Mhu] d`f'k fo"ofo"ofo|ky;] QStkckn] Mk- ,-l,- jktw] iz/kku oSKkfud] ,udsi] ubZ fnYyh rFkk Mkñ v:.k dqekj gk.Mk] iz/kku oSKkfud ,oa lnL; lfpo us Hkkx fy;kA leh{kk ny us vuqla/kku dk;ksZa dk fujh{k.k fd;kA Lkeh{kk ny dk Lokxr djrs gq, dsUnz funskd Mk- ,-l-ds- /;kuh us dsUnz dh fiNys 05 o'kksZ dh vuqla/kku] izf`k{k.k rFkk izpkj&izlkj dk;Zdzeksa dk foLr`r fooj.k izLrqr fd;kA mUgksus dsUnz dks vUrjkZ'V^ah;] jk'V^ah;] {ks=h;} LFkkuh; laLFkkvksa ,oa laxBuksa }kjk feyh igpku dks js[kkafdr fd;kA

Forthcoming Events

- Farmer's Innovation Day: 23rd November, 2012.
- Institute Joint Staff Council/ Women Cell's / PME Cell meetings.

Issues Highlights

- QRT Visit to NRCAF-6th & 7th July, 2012
- IRC - 9th - 10th and 13th July, 2012
- ou egksRlo&16 tqykbZ] 2012
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Mk- frokjh] iwoZ lnL; ;kstuk vk;ksx ,oa egkfunskd] Hkkjrh; ou vuqla/kku ,oa f'k{kk ifj'kn~] nsgjknqu us thfodksiktZu fe'ku] jk'V^{ah}; ckWl fe'ku] vkS'k/kh; ikni fe'ku] jk'V^{ah}; cksokuh fe'ku esa d'f'kokfudh ds egRoiw.kZ ;ksxnku dks js[kkafdr fd;kA mUgksus tSo fofokrk] Hkwfe ,oa ty laj{k.k] baZ/ku] ydM+h] pkjk] Qy rFkk ikuh dh leL;k ls mcjus ds fy, d'f'kokfudh dks fodYi ds :i esa fodflr djus ij tksj fn;kA mUgksus vkg~oku fd;k fd d'f'kokfudh dks c<+kus ds fy, fe'ku :i esa dk;Z djus dh vfr vko";drk gSA dsUnz }kjk lapkfyr x<+dq.Mkj&Mkcj ¼e/; izns"k½] Mksekxksj ,oa ijklbZ&flU/k ¼m0iz0½ tykxe ifj;kstuk dks ns"k ds nwljs Hkkxksa eas viuk;s tkus dh flQkfjl dhA mUgksus dsUnz dks jk'V^{ah}; Lrj dk laLFkku cuk;s tkus ij tksj fn;k rFkk lkdZ ,oa ,f'k;k Lrj ds vxz.kh „kks/k laLFkku ds :i esa bldh igpku cukus dk vkg~oku fd;kA leh{k ny }kjk dsUnz ds vuqla/kku iz{ks=} iz;ksx"kkkyk;sa rFkk tykxe ifj;kstukvksa dk LFkkuh; Hkze.k dj fujh{k.k ,oa leh{k dh xbZA x<+dq.Mkj&Mkcj tykxe

Hkze.k ds nkSjku izksxzke yhMj Mk- vkj- ds- frokj] Mk- jes“k flag] ofj’B oSKkfud ,oa Mk- Mh-vkj- iYklkfuk us ny ds le{k ty lesV esa py jgh vuqla/kku dk;ksZa dk foLr`r o.kZu izLrqr fd;k x;kA tykxe {ks= esa Lo;a lgk;rk lewg }kjk lapkfy xfrfof/k;ksa dk fooj.k Mk- vkj- ih- f}osnh ,oa Mk- jes“k flag }kjk izLrqr fd;k x;kA ekulwu dh nsjh ds dkj.k tgkW cqUnsy[k.M esa ukys lw[ks iM+s gSa] ogha x<+dq.Mkj&Mkcj tykxe {ks= eaas ukyksa esa ikuh gksus ds dkj.k tkuojksa dks ikuh i;kZIr ek=k eas miyC/k gS rFkk HkSlsa rSjdj xehZ ls futkr ik jgh gSA leh{k ny us bu iz;klksa ds fy, d`f’kokfudh vuqla/kku dsUnz ds oSKkfudks dks c/kkbZ nhA

Pre- Sowing Seed Treatment Improves Germination and Seedling Vigor in Pomegranate (*Punica granatum* L)

A study was conducted in the nursery under 60% shade net house on seed germination of two varieties of pomegranate (*Punica granatum* L). The experiment was carried out in cv. Ganesh during 2011 and in cv. Bhagwa during 2012 with thirteen treatments and four replications under CRD. Each replication was having 25 seeds. Before sowing, the seeds were soaked with water and potassium nitrate (0.5 and 1% solution) for 6, 12, 18 and 24 hours and control (without soaking) was also maintained separately. After soaking in their respective solution and duration, the seeds were sown in raised beds having mixture of soil and FYM in 2:1 ratio to observe germination. After one month of sowing, the seedlings were transferred in polythene bags filled with the mixture of soil and FYM in 2:1 ratio. Fifty polythene bags having single seedling in each bag were maintained for each treatment to collect the data on growth and root parameters.

In cv Ganesh, the study revealed that the germination started almost in all the treatments on 10th day after sowing except in control and where the seeds were soaked with 0.5% potassium nitrate solution (KNO₃) for 6 hours whereas maximum germination (81%) was recorded in the treatment where seeds were soaked with 1% potassium nitrate solution for 18 hours at the end of the experiment *i.e.* 29th day after sowing during April. At significance level it was equal to the treatment where seeds were soaked with 1% potassium nitrate solution for 12 hours (74%). Fastest germination rate (GR), *at par* peak value PV) and high germination value (GV) was also recorded in the treatment where seeds were soaked with 1% potassium nitrate solution for 12 hours. However, mean daily germination (MDG) was observed maximum



in the treatment where seeds were soaked with 0.5% potassium nitrate solution for 24 hours. The other characters such as shoot length, shoot vigor index (SVI), number of leaves, length of main root, number of primary roots, longest primary root, fresh and dry weight of shoot and root and root to shoot ratio (on dry weight basis) were also recorded either *at par* or maximum/ higher in the same treatment *i.e.* soaking with 1% potassium nitrate solution for 12 hours. The results obtained from the study suggested that since the treatment soaking with 1% potassium nitrate solution for 12 hours shown its superiority therefore could be recommended for this variety to improve germination and vigor.

On the other hand in cv Bhagwa, the germination was started on 9th day and lasted till 30th day after sowing during April. In this variety the maximum germination (86%) was obtained where seeds were soaked with water for 6 hours. Interestingly, the other parameters such as GR, PV, GV, shoot length, number of leaves, SVI, length of primary roots, fresh and dry weight of shoot and root and root to shoot ratio were also observed more/ maximum in the above treatment. However; MDG, Length of main root and number of primary roots recorded maximum where the seeds were soaked with 0.5% potassium nitrate solution for 18 hours, 1% potassium nitrate solution for 6 hours and 12 hours, respectively.



The study revealed that soaking with water for 6 hours was the best among all the treatments and thus suggested for adoption in cv Bhagwa as it was more effective, simple, time saving and no cost involvement.

The results obtained from both the experiments indicated that seeds of cultivar Ganesh performed well when they were kept 12 hours for soaking in 1% potassium nitrate solution. This indicate that this variety is having hard seed coat and requires chemical treatment as suggested for long duration to soften the seed coat for its germination whereas, cultivar Bhagwa performed well with water soaking that too only for 6 hours. This suggests that the variety is having soft seed coat in comparison to cv Ganesh, therefore, requires only water treatment for less duration for its germination.

The overall conclusion of the study is to improve the germination and vigor, the seeds of cv. Ganesh should be soaked for 12 hours in 1% potassium nitrate solution whereas the seeds of cv. Bhagwa should be soaked for 6 hours in water only prior to sowing.

**Sudhir Kumar, Divya Nagaich, Kuldeep Singh and Rajendra Prasad
National Research Centre for Agroforestry, Jhansi**

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tylesV Hkw&Hkkx dh ,slh bdkbZ gksrh gS ftlesa pkjksa rjQ dk ty ,d fcUnq ls gksdj cgrk gSA tylesV izcU/ku }kjk izkÑfrd lalk/kuksa tSls Hkwfe] ty] ouLifr] euq'; ,oa tkuojksa dk leqfpr :i ls izcU/ku fd;k tkrk gSA {kh.k Hkwfe ds fodkl ,oa bdkbZ tehu ls vf/kd ykHk Ñf'kokfudh i)fr;ksa }kjk izkIr fd;k tk ldrk gSA Qyr% tylesV fodkl gsrq leku ekxZn'kZdk esa Ñf'kokfudh dks tylesV fodkl gsrq izeq[k vo;o ekuk x;k gSA tylesV esa mi;qZDr Hkwfe ,oa ty laj{k.k ds fofHkUu dkjdxsa dks viukdj feV~Vh ds cgko rFkk HkwxHkZ ty ds Lrj dks c<+k ldrs gSaA lu~2009 esa >kj;lh ds cchuk [k.M esa Mksekxksj&igqt tylesV ifj;kstuk vkjEHk dh xbZA bl tylesV dk dqy {ks=Qy 1646 gso gS] ftlesa 960 gso Hkwfe [ksrh ;ksX; gSA tylesV esa HkwxHkZ ty dh fLFkfr dk vkadyu ,oa mldk forj.k tkuus ds fy, th-vkbZ-,l- rduhd dk iz;ksx fd;k tk ldrk gSA ;g Hkh Kkr fd;k tk ldrk gS fd HkwxHkZ tyLrj esa o'kkZ ls igys rFkk o'kkZ mijUr D;k cnyko vk;kA bl "kks/k esa Mksekxksj&igqt tylesV esa fofHkUu le;kUrjkyksa ds HkwxHkZ tyLrj dk ekufp= rS;kj djds rgyukRed fo"ys'k.k fd;k tk jgk gSA

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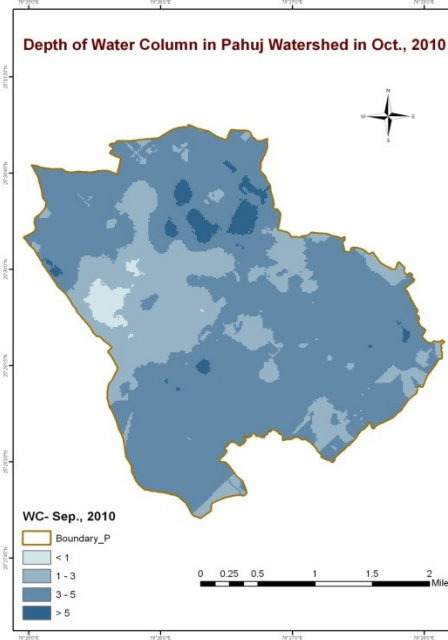
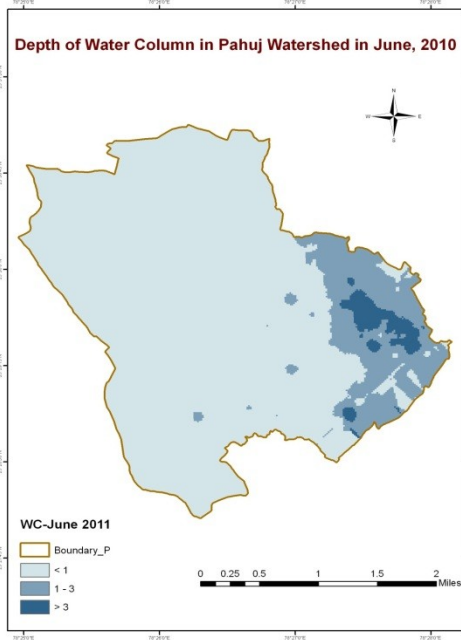
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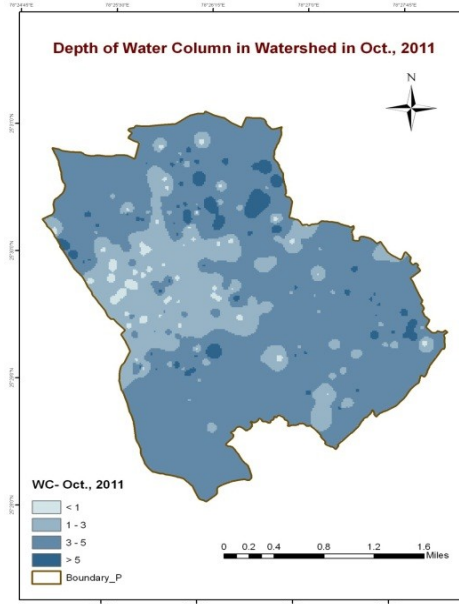
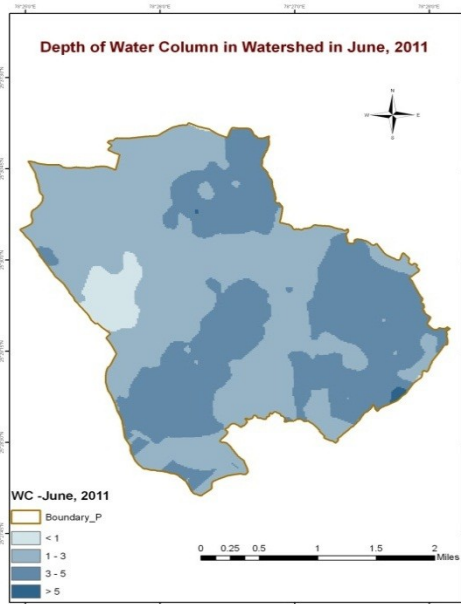
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< 1	1372-98 ¼84-4½	26-56 ¼1-6½	142-47 ¼8-8½	21-98 ¼1-3½
1&3	212-79 ¼13-1½	412-45 ¼25-4½	892-89 ¼54-9½	362-79 ¼22-3½
3&5	40-51 ¼2-5½	1142-18 ¼70-2½	530-51 ¼32-6½	1193-50 ¼73-4½
> 5	0	45-08 ¼2-8½	60-42 ¼3-7½	48-01 ¼2-9½

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fp= 3% Mksekxksj&igqt tylesV HkwxHkZ tyLrj dh fLFkfr (twu] 2011) esa fp= 4% Mksekxksj&igqt tylesV HkwxHkZ tyLrj dh fLFkfr (vDVwcj] 2011)

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INSTITUTE RESEARCH COUNCIL

Annual Institute Research Council (IRC) meeting was held on 9th - 10th and 13th July, 2012. All the Scientists of the Centre participated in the meeting and presented the progress and significant findings of their projects. New project proposals were also discussed during IRC.

TRAINING PROGRAMMES

- Four training programmes (16th -18th July;18th -20th July; 6th - 8th August & 8th – 10th August,2012) for grassroot level workers of Rastriya Jalagam Yojana Chirgaon, Mauranipur and Jhansi of district Jhansi on Planning and Execution of IWMP Watershed were organized. Total 184 participants attended these programmes.
- Three training programmes (6th -8th, 10th-12th and 24th-25th September, 2012) for grassroot level workers and farmers from Jalaun district on Planning and Execution of IWMP Watershed were organized. Total 69 participants attended these programmes. The training was sponsored by BSA, Rashtriya Jalagam Yojna, Jalaun.

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izxfr"ky fdlku Jh ckykjk rFkk vPNsyky ;kno us vius fopkj O;Dr fd;sA ou egksRlo ds nkSjku 1300 ikS/ks lkxkSu] 80 dVgy rFkk 100 ckWI ds ikS/ks jksfir fd;s x;sA Kkr gks fd dsUnz }kjk

izR;sd o`kZ bl {ks= ds fofHkUu xkWoksa esa d`f`kokfudh ds izksRlkgu gsrq dk;Zdze pyk;s tk jgs gSa ftlesa cgqmn~ns"kh; o`{kkjksi.k ij cy fn;k tkrk gSA

HUMAN RESOURCE DEVELOPMENT

- Dr. Ajit, Sr. Scientist; Sh. S. B. Sharma, AF&AO; Sh. A. K. Chaturvedi, P.S. to Director and Sh. Dalbir Singh Rawat, AAO of the Centre participated in the Guest Lecture on "RTI Act-2005: An Overview of Sh. M.L. Sharma, Hon'ble Information Commissioner from CIC, New Delhi on 18th August,2012 at Project Directorate of Rapeseed and Mustard, Bharatpur (Raj.) .
- Dr. Anil Kumar, Pr. Scientist of the Centre participated in the MDP Workshop on "Policy and Prioritization, Monitoring and Evaluation (PME) Support to Consortia-based Research in Agriculture" from 11th-17th September, 2012 at NAARM, Hyderabad (A. P.).

SELECTION

Dr. D.R. Palsaniya, Scientist (Agronomy) of the Centre selected for the post of Sr. Scientist (Agronomy) at IGFR, Jhansi.

fgUnh i[kokM+k

dsUnz esa fnukad 14 flrEcj] 2012 dks Mk- ih- ds- ?kks'k] funs"kd] Hkkjrh; pjxkg ,oa pkjk vuqla/kku laLFkku] >k]lh ds eq[; vkfrRF; esa fgUnh i[kokM+s ¼14&29 flrEcj] 2012½ dk "kqHkkjEHk fd;k x;kA Mk- ?kks'k us tksj nsrs gq, dgk fd fgUnh dks c<kok nsus gsrq izR;sd Hkkjrh; ukxfjd dks esgur djus dh t:jr gSA bl iquhr dk;Z ds fy, mUgksus vuqla/kku dk;Zdze esa ljj fgUnh ds iz;ksx djus ij tksj fn;kA dk;Zdze dh v/;{krk Mk- vkj- ds- frokjh] dk;Zokgd funs"kd] d`f`kokfudh us dhA mUgksus dgk fd fgUnh ds iz;ksx esa fgpfdpkgV ugh gksuh pkfg,A dk;Zdze esa fgUnh dks c<kok nsus ds fy, ekuuh; d`f`k ea=h

¼Hkkjr ljdkj½ ,oa egkfunskd egksn;] Mk- ,l- v;Iiu] Hkkjrh; d`fk vuqla/kku ifj`kn~] ubZ fnYyh dk lans`k Ik<+dj lquk;k x;kA

fnukad 29 flrEcj] 2012 dks Mk- ¼Jherh½ uhye dylh] iwoZ izkpk;kZ] xq: gjfd`ku egkfo|ky;] >Wklh ds eq[; vkfrRF; esa fgUnh i[kokM+s dk lekiu fd;k x;kA Mk- ¼Jherh½ uhye dylh us bl dsUnz esa fgUnh ls lacaf/kr fd;s tk jgs dk;ksZa dh ljkguk djrs gq, vius mn~cks/ku esa dgk fd ge yksxkssa dks fgUnh dks c<kok nsus ds fy, dsoy fnol] lIrkj] i[kokM+k rFkk ekl rd lhfer u djds iwjs o`kZ fgUnh dk lrr~ iz;ksx djuk pkfg,] D;ksafd ftl Hkk`kk dk ftruk vf/kd iz;ksx gksxk] mruk gh og Hkk`kk le`) gksxh rFkk fodkl djsxhA mUgksus vius mn~cks/ku essa ;g Hkh dgk fd vkt ds oSf`od ;qx esa dsoy ,d Hkk`kk ds iz;ksx ls ge fodkl ugh dj ldrs] blfy, ,d ,slh Hkk`kk dk p;u djsa ftlls ge viuh Hkkoukvksa dks nwljs ls C;Dr dj ldsa vkSj og Hkk`kk gS fgUnh A tc rc Hkk`kk dk lrr iz;ksx ugh gksxk] Hkk`kk dk fodkl ugh gks ldrkA

dk;Zdze dh v/;{krk Mk- ,l- ds- /;kuh] funskd] d`fkokfudh us dhA mUgksus fgUnh dks c<kok nsus ds fy, bl dsUnz ds dkfeZdksa }kjk fd;s tk jgs dk;ksZa dh ljkguk djrs gq, lHkh ls vihy dh fd jktHkk`kk foHkkx }kjk fn;s x;s ekun.Mksa dks izkIr djus ds fy, geyksxksa dks fgUnh i=kpkj ij fo`ks`k /;ku nsuk gksxkA mUgksus crk;k fd bl dsUnz ds oSKkfudkssa }kjk dbZ iqLrdsa fgUnh esa fy[kh tk pqdh gS ftldkssa Mk- jktsUnz izlkn iqjLdkj ls iqjLd`r fd;k tk pqdk gSA mUgksus crk;k fd bl dsUnz esa vf/kdrj Qkbyksa ij fViIM+h fgUnh esa fy[kh tk jgh gSA bl ds

vykok ifji=] dk;kZy; vkns"ku] izsl foKfIr] Isok iaftdk esa izfofV;ka fgUnh esa dh tk jgh gSA mUgksus dsUnz esa ,d fgUnh dk;Z"kkkyk ^^;wuhdksM** ij fd;s tkus dks dgkA mUgksus oSKkfudksa ls vihy dh fd ifj'kn~ eq[;ky; }kjk ,d fgUnh if=dk ^^d`f'kdk** dk izdk"ku fd;k tk jgk gS] tks Hkh oSKkfud viuk "kks/k ys[k fgUnh essa nsuk pkgrk gks] Hkst ldrs gSaA mUgksus ;g Hkh crk;k fd ifj'kn~ eq[;ky; dks bl o'kZ fgUnh fnol@ekl ds volj ij x`g ea=ky;] Hkkjr ljdkj us fgUnh esa vPNs dk;Z djus ds fy, ^^bfUnjk xkW/kh jktHkk'kk iqjLdkj** ls IEekfur fd;kA mUgksus ;g Hkh crk;k fd bl o'kZ okf'kZd izfrosnu&2012 fgUnh esa izdkf"kr fd;k tk jgk gSA dsUnz }kjk izdkf"kr fgUnh okf'kZd if=dk ^^d`f'kokfudh vkyksd&2012** 'k'Ve vad dk foekspu ekuuh; eq[; vfrfFk egksn;k }kjk fd;k x;kA fgUnh i[kokM+s ds nkSjku dqy 12 izfr;ksfxrk;sa vk;ksftr gqbZ FkhA i[kokM+s ds nkSjku vk;ksftr gqbZ fgUnh dh fofHkUu izfr;ksfxrkvksa ds fot;h izfrHkkf'kvksa dks ekuuh; eq[; vfrfFk egksn;k }kjk iqjLdkj fn;k x;kA

INTERNAL INSPECTION BY THE TEAM OF IPAI

Internal Inspection was conducted by the Team of Institute of Public Auditors of India (IPAI), for the period of last 2 years *i.e.* from 2010-11 and 2011-12 of the Centre from 10th to 26th September,2012.

jktHkk'kk dk;kZUo;u Ifefr cSBd

dsUnz esa jktHkk'kk dk;kZUo;u Ifefr dh fnukad 01 flrEcj] **2012** dks dsUnz funs"kd Mk- ,l- ds- /;kuh dh v/;{krk esa lEiUu gqbZA cSBd esa jktHkk'kk

dk;kZUo;u lfefr ds lnL;] dsUnz ds dk;Zdze izeq[k rFkk vuqHkkxk/;{kksa us Hkkx fy;kA cSBd esa vkxkeh fgUnh i[kokM+k&2012 ds vk;kstu rFkk dsUnz }kjk izdkf"kr dh tkuh okyh okf"kd fgUnh if=dk ^^d`f'kokfudh vkyksd&2012** 'k'Ve vad ds izdk"ku ds ckjs esa fopkj&foe"kZ fd;k x;k rFkk fu.kZ; fy;s x;sA

fgUnh dk;Z"kkkyk

dsUnz esa frekgh dk;Z"kkkyk fnukad 14-09-2012 dks dk;Zokgd funs"kd Mk- vkj- ds- frokjh dh v/;{krk esa lEiUu gqbZA dk;Zdze dh v/; {krk djrs gq, Mk- frokjh us vius mn~cks/ku esa dgk fd Hkkjr ljdkj ds xtV esa bl dsUnz dk uke ^^d** {ks= esa gS] blfy, ge yksxksa dks viuk iz"kklfud dk;Z "krizfr"kr fgUnh esa djuk gSA mUgksus leLr oSKkfudksa] vf/kdkfj;ksa ,oa deZpkfj;ksa dk vkg~oku fd;k fd /kkjk 3(3) ds mij fo"ks'k /;ku fn;k tk,A mUgksus ljdkjh dkedkt esa i=kpkj dks c<+kok nsus ds fy, dsUnz ds leLr oSKkfudkas ,oa vf/kdkfj;ksa ls vihy fd;k fd i=kpkj dks c<kus esa viuk lg;ksx iznku djsa ftlls i=kpkj ds y{; dks iwjk fd;k tk ldsA dk;Z"kkkyk esa dsUnz ds leLr oSKkfud] vf/kdkjh rFkk deZpkjh mifLFkr FksA dk;Z"kkkyk ds eq[; oDrk Mk- vkj- ,p- fjtoh] ofj'B oSKkfud rFkk izHkkjh vf/kdkjh lax.kd izdks'B us ^^;wuhdksM** ij viuk foLr`r O;k[;ku fn;kA mUgksus ;wfudksM ds ek/;e ls dEI;wVj ij fgUnh VkbZfiAx dSls dh tk ldrh gS] IHkh dks fof/kor tkudkjh nh xbZA

RETIREMENT

Sh. D. D. Dhamani, Administrative Officer of the Centre retired on 31st August, 2012. The staff members bid a grand farewell to Administrative Officer.

