



ज्वार अनुसंधान निदेशालय

Directorate of Sorghum Research

घटनाक्रम तथा समाचार Happenings & News



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Training Programme on Plant Variety Protection

DSR organized a one-day "Awareness cum Training Programme on Plant Variety Protection" on 27 January, 2012 at the new conference hall, Hyderabad to create awareness on Plant Variety Protection and the importance



Director, DSR making his inaugural remarks during the training programme

of DUS Testing under the sponsorship of the PPV&FRA. It was organized to benefit mainly research students including Research Associates, Senior Research Fellows, Technical officers and M.Sc., students and Scientists from private seed industry - who are actively engaged in research and development activities of various crops. It was attended by more than 130 delegates representing the cross-

समाचार सारांश

पादप किस्म संरक्षण पर प्रशिक्षण कार्यक्रम : पादप किस्म व कृषक अधिकार संरक्षण अधिनियम के प्रायोजन से निदेशालय के सम्मेलन कक्ष में 27 जनवरी 2012 को पादप किस्म संरक्षण विषय पर जागरूकता व प्रशिक्षण कार्यक्रम का आयोजन किया गया।

ज्वार व अन्य कदन्न की कटाई उपरांत प्रौद्योगिकी पर प्रशिक्षण कार्यक्रम : निदेशालय में 11-12 जनवरी, 2012 के दौरान कृषि विज्ञान केंद्रों, गैर-सरकारी संगठनों, राज्य सरकार के अधिकारियों व उद्यमियों के लिए ज्वार व अन्य कदन्न की कटाई उपरांत प्रौद्योगिकी पर दो दिवसीय प्रशिक्षण कार्यक्रम का आयोजन किया गया।

पणधारकों के साथ बैठक : निदेशालय ने निजी तथा सार्वजनिक संगठनों के पणधारियों के साथ 13 जनवरी, 2012 को एक बैठक आयोजित की तथा उन्हें संस्थान में जारी लोकप्रिय किस्मों, संकरों, पैतृक वंशक्रमों के परीक्षण दिखाए गए।

प्रतिष्ठित आगंतुक

राजस्थान के कृषि मंत्री का दौरा : श्री हरजी राम बुरडक, माननीय कृषि एवं पशुपालन मंत्री, राजस्थान ने 17 जनवरी 2012 को निदेशालय का दौरा किया। डॉ. जे वी पाटील ने उनका स्वागत किया तथा निदेशालय में चल रही गतिविधियों से अवगत कराया।

उप महानिदेशक का दौरा : डॉ. स्वप्न कुमार दत्ता, उप महानिदेशक (फसल विज्ञान), भाकृअनुप ने 19 जनवरी 2012 को निदेशालय का दौरा किया। डॉ. जे वी पाटील, निदेशक ने उन्हें निदेशालय में जारी अनुसंधान संबंधी प्रयोगों तथा संरचना संबंधी विकास कार्यों के संबंध में जानकारी प्रदान की।

डॉ. जे पी पांडेय का दौरा : गोविन्द वल्लभ पंत कृषि एवं प्रौद्योगिकी विश्वविद्यालय, पंतनगर, उत्तराखंड से डॉ. जे पी पांडेय, अनुसंधान निदेशक तथा डॉ. पी के श्रोतिया, वरिष्ठ ज्वार प्रजनक ने 16 जनवरी 2012 को निदेशालय का दौरा किया।

डस प्रक्षेत्र परीक्षणों का निरीक्षण : डॉ. डी एम हेगडे, डस निगरानी दल के अध्यक्ष तथा भूतपूर्व निदेशक, तिलहन अनुसंधान निदेशालय, हैदराबाद तथा श्री दिपल राय चौधरी, संयुक्त सचिव, पादप किस्म एवं कृषक अधिकार संरक्षण, नई दिल्ली तथा संबंधित निजी क्षेत्र के प्रतिनिधियों ने डॉ. जे वी पाटील, निदेशक के साथ 27 जनवरी 2012 को संस्थान के डस परीक्षण क्षेत्रों का दौरा किया।

गणतंत्र दिवस समारोह : निदेशालय में बड़े-ही उत्साह के साथ 26 जनवरी 2012 को राष्ट्र का 63वाँ गणतंत्र दिवस समारोह मनाया गया। इस अवसर पर संस्थान के निदेशक, डॉ. जे वी पाटील ने झंडा फहराकर स्टाफ को संबोधित किया।

राहुरी के स्वावलंबी महिला समुदाय हेतु एक दिवसीय जागरूकता कार्यक्रम : डॉ. आनंद चव्हाण के नेतृत्व में महात्मा

फुले कृषि विद्यापीठ, राहुरी, महाराष्ट्र के आए 35 सदस्यों के स्वावलंबी महिला समुदाय हेतु निदेशालय में 10 जनवरी 2012 को ज्वार के स्वास्थ्यवर्धक खाद्य पदार्थों को बनाने की विधि प्रदर्शित की गई।

संस्थान प्रौद्योगिकी प्रबंधन समिति (सं.प्रौ.प्र.स.) की बैठक : लाइसेंस जारी करने हेतु शुल्क के निर्धारण, ज्वार पैतृक

वंशक्रमों, किस्मों, संकरों तथा खाद्य उत्पादों के व्यावसायीकरण पर विचार विमर्श हेतु 17 जनवरी 2012 को निदेशालय में संस्थान प्रौद्योगिकी प्रबंधन समिति की दूसरी बैठक आयोजित की गई।

प्रजनक बीज उत्पादन (प्र.बी.उ.) का निरीक्षण : राष्ट्रीय बीज

निगम, आंध्र प्रदेश राज्य बीज विकास निगम तथा आंध्र प्रदेश राज्य बीज प्रमाणीकरण अभिकरण के प्रतिनिधियों ने डॉ. जे वी पाटील, निदेशक, ज्वा.अनु.नि. तथा डॉ एम एलंगोवन, निदेशालय के प्र.बी.उ. के नोडल अधिकारी के साथ 30 जनवरी 2012 को पल्गुट्टा ग्राम, चेवेल्ला मंडल, रंगारेड्डी ज़िले तथा मेडचल के समीप असवररावपेट में सीएसवी 15, सीएसवी 20, सीएसवी 22 तथा एसपीवी 462 के प्रजनक बीज उत्पादन का निरीक्षण किया। नंदयाल, कर्नूल, आंध्र प्रदेश में 31 जनवरी 2012 को सी 43 किस्म हेतु भी प्र.बी.उ. का निरीक्षण किया गया।

आगतुक

पांच सहायक प्रोफेसर : डॉ. के भवानी, सहायक प्रोफेसर तथा

सहायक निदेशक कृषि के नेतृत्व में विज्ञान एवं कृषि विश्वविद्यालय, रायचुर के अंतर्गत कार्यरत कृषि विज्ञान केंद्र, बिदर से पांच सहायक प्रोफेसरों ने 12 जनवरी 2012 को निदेशालय का दौरा किया। उन्हें यहां संचालित अनुसंधान गतिविधियों तथा पोषक एवं स्वास्थ्यवर्धक खाद्य के रूप में ज्वार का महत्व बताया गया।

सेवानिवृत्त : श्री एम जंगय्या, तकनीकी अधिकारी (टी-5) अधिवर्षिता

पर 31 जनवरी 2012 को निदेशालय की सेवाओं से मुक्त किए गए। निदेशालय परिवार उनके खुशहाल जीवन की कामना करता है।

प्रपत्र प्रस्तुतीकरण : डॉ. जे एस मिश्र, प्रधान वैज्ञानिक,

ज्वा.अनु.नि. ने आकोला चाप्टर ऑफ इंडियन सोसायटी ऑफ एगोनॉमी द्वारा 7 जनवरी 2012 को डॉ. पंजाबराव देशमुख कृषि विद्यापीठ, आकोला में आयोजित राज्यवार संगोष्ठी में ब्रेकिंग थिंक्स बैरियर्स इन रबी सोरघम थू इंप्रूव्ड प्रोडक्शन टेक्नोलॉजी नामक अग्र-लेख प्रस्तुत किया।

हिंदी सारानुवाद : डॉ. महेश कुमार

companies, ICAR institutes - DRR, DOR, and agricultural universities — ANGRAU, Hyderabad and MPKV, Rahuri etc. Dr. Sudhakar Rao, Director of Research, ANGRAU, inaugurated this programme. Along with the chief guest,



Release of Information bulletin in telugu on "Mokka rakala pari rakshana mariyu raithu hakkula pradhikara samstha".

Dr. Dipal Rai Chowdhary, Asst. Registrar, PPV &FRA and Dr. JV Patil, DSR combinedly released the information brochure of PPV & FRA in Telugu entitled "Mokka rakala pari rakshana mariyu Raithu hakkula pradhikara Samstha".

The training programme encompassed following major themes: The concept of EDVs under PPV and FR Act 2001; Approaches to differentiate EDVs from the IVs; relevant provisions under UPOV; The Technical and legal aspects of protection of New varieties and EDVs; FAQs and critical issues on legal aspects of plant variety protection; Practical sessions included: Modalities for Registration of plant varieties and EDVs: Filling up of the form of extant, new and EDV transgenics. The participants studied the process of filling the PVP forms and discussed intricacies involved.

Training programme on "Post Harvest Technologies of Sorghum and Other Millets"

Two day training programme on "Post Harvest Technologies of Sorghum/ Millets" was specially organized for KVK's,



Trainees being demonstrated modern technology of making semolina from jowar

NGO's, state government officials and entrepreneurs during 11-12 January, 2012 at Directorate of Sorghum Research, Hyderabad. Fifty people participated from various districts of Maharashtra in this training programme. The course covered various aspects on value-addition of sorghum and food processing techniques. As part of the programme, sorghum processing machineries were demonstrated to the

trainees. Resource persons were invited from both private and public institutions such as ITC Ltd, NIN, Hyderabad, ANGRAU, and ICRISAT. It was a participatory and interactive training with lab visits to Sorghum processing lab, DSR. The valedictory programme was addressed by Dr. Omkar. The certificates were distributed by Dr JV Patil. Dr. B Dayakar Rao was the Course Director while Mr. P Mukesh, Mrs. Vishala Devender and Mr. B Sanjay Kumar were coordinators. Senior research fellows Miss. Niharika, Smt.Sailaja and Mr. Srinivas also actively participated in organizing this training programme. Lab technicians Mr. Chaithanya, Mr. N Prabhakar, Mr. Karthik, Ms. Padma and Ms. Anitha also contributed their invaluable services.

Meeting with Stakeholders

DSR organized a meeting with stakeholders from private and public research organizations on 13 January, 2012. Twenty five representatives from National Seeds



Lysimeter facility for measuring the transpiration efficiency being demonstrated and explained to visitors



Salient features of rabi cultivars being explained to the visitors

Corporation (NSC), ICRISAT and private seed companies participated in this event including 15 scientists of DSR. The participants were taken to the field and shown the trials of popular varieties, hybrids, parental lines, dual-purpose and forage types. During the interactive session, the group reviewed the importance of the drought tolerant varieties, forage seed production in view of increasing demand, new policies on registration, provisions for licensing cultivars bred with public funds, and issues related to marketing of sorghum seeds. Deliberations were also held on provisions for production of sorghum value added food products and its marketing. The issues related to new regulatory systems

under TRIPS and PVP regime, exchange of germplasm and licensing of advanced product lines, and mechanisms for implementing them were also discussed. This programme was coordinated by Drs SV Rao and M Elangovan,

Distinguished visitors

Rajasthan Agri Minister's Visit

Hon'ble Minister for Agriculture and Animal Husbandry of Rajasthan state Sh. Harji Ram Burdaka visited DSR on 17 January, 2012. Dr. JV Patil, Director, DSR welcomed him and appraised the research activities at the centre. He



Novel food products of Sorghum being shown to the Hon'ble Shri. Harji Ram Burdaka, Agri Minister, Rajasthan

visited the laboratories of the centre and research fields to acquaint with latest improved cultivars of sorghum. He was also appraised of the procedure for the development of varieties and hybrids, their seed production, improved package of practices of rabi sorghum and alternate uses of sorghum. The minister was very much impressed with the improved cultivars of sorghum and possibilities on the alternate uses front. He opined that the improved cultivars and new technologies generated in sorghum should reach the farmers to increase the production and productivity of sorghum on dry land.

Visit of Dr. JP Panday

Dr. JP Panday, Director of Research and Dr. PK Shrotriya, Sr. Sorghum Breeder from GB Pant University of Agriculture and Technology, Pantnagar, Uttarakhand visited DSR on 16 January, 2012. The team had discussion with Dr. JV Patil,



Modern technology of making semolina from jowar being demonstrated to the visitors

Director, DSR and Scientists. They briefed him about the ongoing sorghum research activities, especially on rabi sorghum, sweet sorghum and other alternate uses. They also had a brief discussion on the conduct of forthcoming annual sorghum group meetings at Pantnagar. The team visited the fields, labs and food processing technology park. They were provided with the latest literature on sorghum.

DDG visits DSR

Dr. Swapan Kumar Datta, Deputy Director General (Crop Sciences), ICAR, visited DSR fields on 19 January, 2011. Dr. JV Patil, Director, DSR welcomed him and described the institute's ongoing experiments and infrastructural



Salient features of rabi cultivars being explained to Dr. Swapan Kumar Datta, Deputy Director General (Crop Sciences), ICAR



New research initiatives in breeding being explained to Dr. Swapan Kumar Datta, Deputy Director General (Crop Sciences), ICAR

developments. Dr. Datta expressed his satisfaction and lauded the way the experiments were being conducted.

One day awareness programme for Self Help Group Women from Rahuri

A one day "Demonstration programme on sorghum health foods preparation" was conducted on 10 Jan, 2012 at DSR for a 35 member self help group women from Maharashtra through MPKV Rahuri under the leadership of Dr. Anand Chavan. The training program was organized by Food processing & technology Unit, established under NATP project at DSR. This demo programme was aimed to create awareness about sorghum health benefits to the public and enhance the commercial value for millet products. Dr. JV Patil, Director, DSR welcomed the enthusiastic participants and briefed them about the activities of DSR and nutritional



Novel food products of Sorghum being shown to the women from self help group

benefits of sorghum. In this programme DSR displayed samples of processed sorghum food products. The participants expressed their happiness to get this opportunity to interact and learn more about the health benefits that can be derived from sorghum foods. This event was organized By Dr. Sunil Gomashe, Sh. Pramod kumar and was coordinated by Mrs. AD Vishala.

Monitoring of DUS test fields

The Chairman of DUS monitoring team Dr. DM Hegde, Former Director, DOR, Hyderabad and Sh. Dipal Roy Choudhury, Joint Registrar, PPV & FRA, New Delhi, concerned private sector representatives along with the



Critical examination of DUS plants by monitoring team

Director, DSR Dr. JV Patil visited DUS testing fields of the institute on 27 January, 2012. They critically inspected all the legal and procedural stipulations regarding the conduct of DUS trials. The procedures for data recording and documentation of various traits were also verified. The chairman expressed full satisfaction over the conduct of the DUS trials during 2011-12. Dr. M Elangovan facilitated the visit.

Monitoring of BSP

The breeder seed production (BSP) of CSV 15, CSV 20, CSV 22 and SPV 462 were monitored on 30 January, 2012 at DSR farm, Palgutta village, Chevella Mandal Rangareddy District, and Aswaraopet near Medchal by the representatives of Dr. Sudhakar from National Seed Corporation (NSC), Dr. Anwar from APSSDC, and Dr.

Ravindra from APSSCA along with the Dr. JV Patil, Director, DSR and Dr. M Elangovan, Nodal Officer, BSP at DSR. The team expressed their complete satisfaction of the quality seed produced at DSR and its active participation in popularization of the new varieties and hybrids in the



Critical examination of BSP entries in progress

national food chain. Another BSP monitoring was held at Nandyal, Kurnool District of Andhra Pradesh for variety C 43 on 31 January, 2012.

ITMC Meeting organized

Second Institute Technology Management Committee (ITMC) Meeting was organized at DSR on 17 January, 2012 to discuss on the fixation of licensing fee for commercialization of sorghum parental lines, varieties, hybrids and food products. This meeting was chaired by Drs. S Audilakshmi and B Dayakar Rao. The meeting was attended by Dr SK Soam, IPR Expert from NAARM, Dr. Y Yogeswar Rao, Representative of Private sector, Dr. PK Shrotriya, Sr. Breeder, GBPUA&t, Pantnagar–Representative of SAUs along with ITMU members of DSR. Dr M Elangovan, Nodal Officer – IPR at DSR organized this meeting and proposed the fee structure. After the thorough discussions, the committee finalized and formulated the licensing fee structure for different sorghum based commodities.

Interactive Session on Motivating Women Scientists

Directorate of Sorghum Research (DSR) and Directorate of Rice Research (DRR) jointly organized an interactive session on motivating women scientists on 20 January, 2012 at



Women scientists listening to the inspirational speech of Mr B Sivaprasad

Directorate of Sorghum Research, Rajendranagar, Hyderabad. A total of 38 women scientists from 8 ICAR institutes viz. DSR, DRR, CRIDA, NAARM, PDP, NBPGR, DMR,

and NRC on meat at Hyderabad participated in this meeting. This event was organized by Drs S Audilakshmi, Principal Scientist –Plant Breeding of DSR and N Sarla, Principal Scientist – Genetics of DRR, who received the prestigious “Dr. Panjabrao Deshmukh outstanding women scientist award -2010” by ICAR, to follow the mandate of council for the awardees to motivate women scientists and girl students across the country. Dr N Shobarani Principal Scientist –Plant Breeding of DRR, was the guest of honour and elaborated on the position of women scientists in ICAR. Dr. SV Rao, Principal Scientist, DSR and Dr S Indira, retired Principal Scientist, DSR chaired different sessions. During the sessions following four lectures were delivered on various themes : Mr B Sivaprasad, Corporate Trainer and Motivational Speaker, SS Technologies (*Arming yourself for greater success*), Prof. Vijaya Khader, former Dean, Faculty of Home Science, ANGRAU (*Healthy Women – Healthy Nation*). Ms V. Ratnavali, General Manager, HPD (*Stress Management*) and Dr G UshaRani, Cardiologist, CARE Hospitals (*Balancing professional and personal life*). All the participants actively participated in the interactive sessions and made several suggestions. All the women scientists found the meeting very useful and helped to educate themselves.

Visitors

Dr. JV Goud, Former VC, UAS, Dharwad and QRT chairman of DSR visited, DSR on 27 January, 2012. He discussed various issues especially on techno-economic feasibility of using sweet sorghum feedstock for bio-fuel production and cogeneration. He interacted with the several scientists. He



Salient features of rabi cultivars being explained to Dr. JV Goud

also visited sorghum food processing and technology park. Dr. HS Talwar coordinated this visit.

Five Assistant Professors from KVK, Bidar under UAS, Raichur visited DSR on 12 January, 2012. The team was led by Dr. K Bhavani, Asst Professor and ADA. The visitors were told about the research activities and the importance of sorghum as health and nutritious food. Relevant literature was provided to them. They also visited food processing lab at DSR. This visit was coordinated by Smt. Vishala Devender at DSR.

Shri. Atanu Purkayastha, IAS. Joint Secretary, MoA, Gol

visited DSR on 27 January, 2012 and visited new processing lab. He was also appraised about the ongoing projects especially promotion of sorghum as a health food,



Shri. Atanu Purkayastha being explained about the new machinery installed at the food processing lab

entrepreneurship development and commercialization activities.

Dr. Rosana P. Mula, Coordinator, Learning Systems Unit, ICRISAT, Patancheru visited DSR on 30 January, 2012. She discussed on the impact of sorghum hybrids and varieties in farmers fields. Later, She was shown the released rabi varieties in the demonstration block by Dr. JV Patil, Director, DSR. She was appraised on the varieties released for varied



Dr. Rosana P. Mula in conversation with DSR scientists

soil depths and keeping into view the farmers need for both grain and fodder yield and quality traits.

Paper presentation

Dr JS Mishra presented a lead paper "Breaking Yield barriers in Rabi sorghum through improved production technologies" during a state-wide seminar organized by Akola Chapter of Indian Society of Agronomy on 7 January, 2012 at Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola.

Republic Day celebrated

The Nation's 63 Republic Day was celebrated with great enthusiasm and gaiety on 26 January, 2012. Dr. JV Patil, Director, DSR hoisted the flag and addressed the gathering. He stressed the need to rededicate ourselves with a



Dr. JV Patil delivering his Republic Day address

commitment to meet the challenges in agricultural front particularly in sorghum.

Superannuation

Sh. M Jangaiah, Technical Officer (T-5) who rendered 40 years of long service in various capacities at DSR, superannuated on 31 January, 2012. Dr. SV Rao, Principal Scientist, DSR chaired the farewell event. Dr. AV Umakanth, Sr. Scientist and other staff remembered his services to this institute. Dr. SV Rao presented a memento to him on behalf



Shri M Jangaiah being felicitated on his superannuation

of the staff recreation club. The DSR family wishes him a happy and healthy retired life.

Forthcoming Annual Sorghum Group Meeting

The 42nd Annual group meeting of the All-India Coordinated Sorghum Improvement Project is scheduled to be held from **28-30 April, 2012** at GB Pant University of Agriculture & Technology, Pantnagar, Uttarakhand.

Please visit our website www.sorghum.res.in for more information

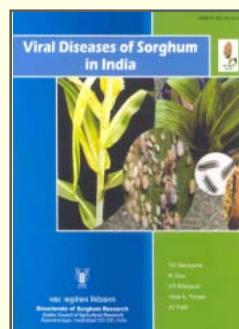
Publications available at DSR



Title: *DUS Characteristics of Indian Sorghum parental lines, hybrids and varieties*

Authors: Vilas A Tonapi, M Elangovan, S Audilakshmi, N Kanna Babu, Chandra Sekhar Reddy, V Subhakar, RS Meena, P Suresh, Raghunath Kulkarni, Swarnalatha, Jhansi, KV Raghavendra Rao, HS Gawali & JV Patil

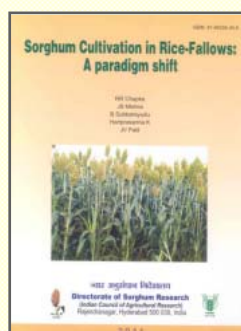
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Title: *Viral diseases of sorghum in India*

Authors: YD Narayana, IK Das, VR Bhagwat, Vilas A Tonapi & JV Patil

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Title: *Sorghum cultivation in Rice fallows – A paradigm shift*

Authors: RR Chapke, JS Mishra, B Subba Rayudu, Hariprasanna, & JV Patil

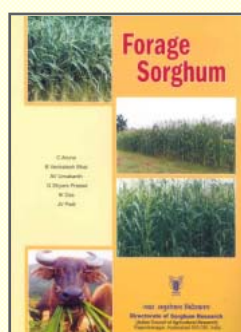
ISBN No: 81-89335-34-0



Title: *Technology for sorghum cultivation in rice fallows during rabi (in Telugu)*

Authors: B Subba Rayudu, JV Patil, JS Mishra, C Aruna, RR Chapke, & SS Rao

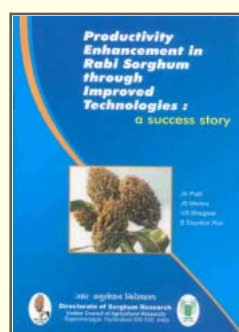
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Title: *Forage Sorghum*

Authors: C Aruna, B Venkatesh Bhat, AV Umakanth, G Shyam Prasad, IK Das, JV Patil & AICSIP Collaborators

ISBN No: 81-89335-36-7



Title: *Productivity enhancement in rabi sorghum through improved technologies – A success story*

Authors: JV Patil, JS Mishra, VR Bhagwat & B Dayakar Rao

Official Tours

S. No	Name of the Official	Place Visited	Dates	Purpose
1	Dr. SS Rao	Solapur & Bijapur	16-18 Jan, 2012	Monitoring of rabi trials
2	Dr. JS Mishra	Tenali, Guntur	10-12 Jan, 2012	Distribute inputs and monitor FLDs on sorghum in rice-fallows

Meetings (M)/ Workshop (W) Conference (C) attended

S. No	Name of the Official	Participated in	Type	Venue	Dates
1	IK Das	Training programme on "Application of Nano technology in agriculture"	T	CIRCOT Mumbai	01-13 Jan, 2012
2	JS Mishra	Seminar organized by Akola Chapter of Indian Society of Agronomy	S	PDKV, Akola	6-7 Jan, 2012

Thought for the month

"We do not need magic to transform our world. We carry all of the power we need inside ourselves already."

J.K. Rowling

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