



**AGRICULTURAL RESEARCH STATION  
UMMEDGANJ, KOTA**

*(Maharana Pratap University of Agriculture & Technology, Udaipur)*

**Dr. Pramod Dashora**

Assoc. Professor  
(Agronomy)

Ph : 0744-2844369 (O)  
Fax : 0744-2844306  
Mob. 8107279509

Office Address : Ummedganj Farm,  
Post Box No. 7,  
G.P.O. Nayapura,  
Kaithoon Road,  
KOTA - 324 001

No.

Date : 16.5.2012

To,

Dr. O.K. Sinha  
Project coordinator  
All India Coordinated Research Project on sugarcane  
IISR,  
Lucknow

Sub : Report of 2011-12, AICRP on Sugarcane (Agronomy and FLD), Kota centre –  
reg.

Respected Sir,

Kindly find enclosed herewith report of AICRP on Sugarcane (Agronomy and  
FLD), Kota centre for the year 2011-12. The report on crop improvement will be  
submitted after 20<sup>th</sup> of this month.

This is for your kind information & further necessary action.

Thanking you

Yours faithfully

Encl. As above.

(Pramod Dashora)

**FRONT LINE DEMONSTRATION  
(FLD) 2011-2012**

**TECHNICAL REPORT OF THE FRONTLINE DEMONSTRATIONS OF SUGARCANE  
CONDUCTED BY AICRP ON SUGARCANE, KOTA CENTRE (2011-12)**

1.	Name of the crop	:	Sugarcane
2.	Season	:	Spring (2011-12)
3.	Objective	:	Sustainable development of sugarcane based cropping system
4.	Name of the farmer	:	Sh. Kishal Lal Dhabhai
5.	location	:	Village –Naya Gaon P.S. – Bundi Taluka – Bundi District – Bundi
6.	Area under demonstration	:	One hectare
7.	Irrigated / rainfed	:	Irrigated
8.	Category of beneficence		
	(a) Medium / small / marginal	:	Medium
	(b) SC/ST/OBC/General	:	OBC
9.	Rainfall pattern	:	Medium
10.	Field condition		
	(a) Topography	:	Plains
11.	Production technology adopted	:	
	(a) Variety	:	CoPK-05191
	(b) Seed rate	:	75 q/ha
	(c) Source of seed	:	ARS, Ummedganj, Kota.
	(d) Seed treatment	:	With 0.25% Agal + 0.1 Bavistin
	(e) Planting date	:	20.3.2011
	(f) Fertilizer		
	(i) Basal	:	200 N : 60 P <sub>2</sub> O <sub>5</sub> : 60 K <sub>2</sub> O ha <sup>-1</sup>
	(ii) Top dressing in two splits	:	100 kg N
	(h) Weed control	:	Herbicial (Atrazine @ 2.0 kg a.i. ha-1) + One hand weeding at 60 DAP
	(i) Plant protection measures	:	Monocrotophos @ 1.25 lit./ha

12. Date of harvesting : 5.3.2012
13. Estimate of yield (t/ha) :  
 (i) Demonstration plot : 95.35 t/ha  
 (ii) Traditional plot : 81.62 t/ha  
 (iii) Per cent increase over local check : 13.73 %
14. Economics

S. No.	Items	Cost estimate (Rs.) Demonstration Plot	Traditional method
1.	Human labour	14652	16687
2.	Bullock / tractor	3960	4620
3.	Inputs		
	Seed	15000	13125
	Weedicide	900	
	Manure		
	Fertilization	2480	1850
	Plant Protection	500	
4.	Irrigation	6950	6950
5.	Total cost of cultivation (Rs./ha)	45556	42336
6.	Value of product (Rs./ha)	147380	127889
7.	Net return (Rs./ha)	101824	85553

\* Selling price Rs. 1500 t/ha

15. Farmers reaction :

Farmers were quite satisfactory and impressed cane production. They had following observation:

1. Sowing of three budded sets gave netter and uniform germination over two or three piece of whole cane .
2. Sowing of sets in furrows with recommended spacing gave better plant population as compared to local ones.
3. Use of recommended varieties for the zone reduced the seed cost
4. Balanced fertilization of nutrients also reduced the input cost.
5. Use of seed treatment minimizes the disease infection
6. Use of herbicides for weed control reduce the total cost of cultivation
7. Control of shoot borer with prescribed insecticide at proper stage proved of assistance.

**TECHNICAL REPORT OF THE FRONTLINE DEMONSTRATIONS OF SUGARCANE  
CONDUCTED BY AICRP ON SUGARCANE, KOTA CENTRE (2010-11)**

1.	Name of the crop	:	Sugarcane
2.	Season	:	Spring (2010-11)
3.	Objective	:	Sustainable development of sugarcane based cropping system
4.	Name of the farmer	:	Sh. Ashok Chaudhary
5.	location	:	Village – K. Patan P.S. – Bundi Taluka – Bundi District – Bundi
6.	Area under demonstration	:	One hectare
7.	Irrigated / rainfed	:	Irrigated
8.	Category of beneficence		
	(a) Medium / small / marginal	:	Medium
	(b) SC/ST/OBC/General	:	OBC
9.	Rainfall pattern	:	Medium
10.	Field condition		
	(a) Topography	:	Plains
11.	Production technology adopted	:	
	(a) Variety	:	CoPK-05192
	(b) Seed rate	:	75 q/ha
	(c) Source of seed	:	ARS, Ummedganj, Kota.
	(d) Seed treatment	:	With 0.25% Agal + 0.1 Bavistin
	(e) Planting date	:	27.3.2011
	(f) Fertilizer		
	(i) Basal	:	200 N : 60 P <sub>2</sub> O <sub>5</sub> : 60 K <sub>2</sub> O ha <sup>-1</sup>
	(ii) Top dressing in two splits	:	100 kg N
	(h) Weed control	:	Herbicial (Atrazine @ 2.0 kg a.i. ha-1) + One hand weeding at 60 DAP
	(i) Plant protection measures	:	There was an incident of shoot borer at early stage in May for control spray of monocrotophos @ 1.25 lit./ha.

12. Date of harvesting : 9.3.2012
13. Estimate of yield (t/ha) :  
 (i) Demonstration plot : 95.6 t/ha  
 (ii) Traditional plot : 77.28 t/ha  
 (iii) Per cent increase over local check : 18.32 %
14. Economics

S. No.	Items	Cost estimate (Rs.)	Traditional method
		Demonstration Plot	
1.	Human labour	14652	16687
2.	Bullock / tractor	3960	4620
3.	Inputs		
	Seed	15000	13125
	Weedicide	900	
	Manure		
	Fertilization	2480	2035
	Plant Protection	500	
4.	Irrigation	6950	6950
5.	Total cost of cultivation (Rs./ha)	46426	45126
6.	Value of product (Rs./ha)	137328	113728
7.	Net return (Rs./ha)	90902	68602

\* Selling price Rs. 1500 t/ha

15. Farmers reaction :

Farmers were quite satisfactory and impressed cane production. They had following observation:

1. Piece of whole cane.
2. Balanced fertilization of nutrients also reduced the input cost.
3. Sowing of sets in furrows with recommended spacing gave better plant population as compared to local ones.
4. Sowing of three budded sets gave better and uniform germination over two or three Use of herbicides for weed control reduce the total cost of cultivation
5. Use of recommended varieties for the zone reduced the seed cost
6. Use of seed treatment minimizes the disease infection
7. Control of shoot borer with prescribed insecticide at proper stage proved of assistance.