

# Case study on Breeder seed production

<sup>1</sup>Subha L and, <sup>2</sup>R. Jegathambal

<sup>1</sup>SMS (PBG), <sup>2</sup>PC  
KVK, Sandhiyur

**Abstract-** The field experiment was conducted at Thanjavur for quality seed production and distributed to farmers for foundation seed production. The indent were received from the National seed corporation, state seed farm, farmers, private agencies and seed producers. The 75 percent advance were received from the farmers, and the crops were raised in the season and product harvested and processed and the inspection were carried out by the seed inspection officers during flowering and maturity stage and yield assessed and germination and seed testing based results were arrived and lot numbers assigned to the lot and seeds distributed to the needers by their request.

## INTRODUCTION

Breeder seed production was taken up during 2014-15 for supply during 2015-16 for the paddy varieties ADT 43, ADT 42, ADT 38 and Blackgram variety ADT 3. The production and distribution details are tabulated

<i>Details of the experiment</i>	<i>ADT 43</i>	<i>ADT 42</i>	<i>ADT 38</i>	<i>ADT 3</i>
<b>Area</b>	1.30	50	0.40	0.8
<b>Target</b>	5400	700	1650	850
<b>50% Advance</b>	2750	450	1500	750
<b>Seed lot No.</b>	Sep -14 -22-TNJ-BS -03	Mar-15-22-TNJ - BS-15	Feb-15-22-TNJ - BS-14	Mar-15-22-TNJ - BS-15
<b>Estimated yield</b>	600	500	1677	650
<b>Unprocessed</b>	600	605	1960	670
<b>Seed lot yield</b>	3375	5673	5678	600
<b>Date of test</b>	20.01.2015	02.06.2015	15.07.2015	15.10.2015
<b>Germination %</b>	92	85	87	86

## During 2016-2017

Breeder seed production was taken up during 2015-16 for supply during 2016-17 for the paddy varieties ADT 43, ADT 42, ADT 38 and Blackgram variety ADT 3. The production and distribution details are tabulated

<i>Details of the experiment</i>	<i>ADT 43</i>	<i>ADT 42</i>	<i>ADT 38</i>	<i>ADT 3</i>
<b>Area</b>	1.45	0.28	0.40	0.80
<b>Target</b>	5200	750	1820	725
<b>50% Advance</b>	3050	750	820	300
<b>Seed lot No.</b>	Sep -15 -22-TNJ-BS -19	Sep -15 -22-TNJ-BS -20	Jan -16 -22-TNJ-BS -25	Mar-16 -22-TNJ-BS -25
<b>Estimated yield</b>	5250	1000	1440	750
<b>Unprocessed</b>	5900	520	1708	1000
<b>Seed lot yield</b>	5100	750	1550	470
<b>Date of test</b>	29.3.2016	05.05.2016	15.07.2016	01.11.2016
<b>Germination %</b>	93	80	85	94

## During 2017-2018

Breeder seed production was taken up during 2016-17 for supply during 2016-17 for the paddy varieties ADT 43, ADT 42, ADT 38 and Blackgram variety ADT 3 and Greengram variety ADT 3. The production and distribution details are tabulated

<i>Details of the experiment</i>	<i>ADT 43</i>	<i>ADT 42</i>	<i>ADT 46</i>	<i>Black gram ADT 3</i>	<i>Green gram ADT 3</i>
<b>Area (ha)</b>	1.50	0.28	1.00	0.60	0.60
<b>Target</b>	4970	750	4515	380	600
<b>50% Advance</b>	1600	205	2360	450	500
<b>Seed lot No.</b>	Sep- 16-22-TNJ-BS - 25	Oct-16-22-TNJ-BS-34	Jan-17-22-TNJ-BS - 01	Mar-17-22-TNJ-BS -02	Mar-17 -22-TNJ-BS -03
<b>Estimated yield</b>	5250	750	5200	500	300
<b>Unprocessed</b>	7075	1300	5760	688	200
<b>Seed lot yield</b>	5500	620	3000	560	110
<b>Date of test</b>	08.09.2017		19.05.2017	09.08.2017	08.09.2017

<b>Germination %</b>	99.8	93	90	92	89
<b>Distributed</b>	3136	620	3250	555	100

During the period from 2015-2018 in paddy breeder seed production the variety ADT 43 was distributed to a tune of 60-70% during the year 2014-17 and 40% during the year 2017-18 and 2018-19. In ADT 43 there is reduction in demand and there was increased demand in the variety ADT 42 and ADT (R) 46. Because of the monsoon failure during 2017-18 the demand for ADT 43 was low and the seeds was not lifted for kuruvai production

The seeds were distributed to various SSFs and other seed producing organization and farmers for their seed production purpose

#### **Acknowledgement**

Thanks to TNAU, Agricultural Research Station, Thanjavur for providing the suitable backstaffing for conducting the seed production experiment in a successful manner.