



# Crop Cutting Experiment

Crop Cutting Experiment was done in the field of Killo Govind of Karabali village of Korrai Panchayat, Dumbriguda Mandal, ASR district, Andhra Pradesh. He has followed the transplantation method in *Sama* (Little Millet), long-duration landraces known as Peddasama, grown in his 2 acres under rainfed conditions. The soil type is red soil. He has used 21-day-old seedlings of Peddasama for transplantation and maintained a 30cm distance between row to row and plant to plant. Transplantation was done on 12<sup>th</sup> July 2023 and harvested on 28<sup>th</sup> October 2023. He applied 800 kgs of type-2 *Ghana Jeevamrutham* in the last plough. 10 days after transplantation he applied 400 litres of Dravajeevamrutam with a dilution of 10%.

On 28<sup>th</sup> October CCE experiment was organized in front of a scientist from RARS Chintapalli and KVK Kondempudi and Mandal Agriculture Officers from Araku Valley and Dumbriguda Mandals and RySS field cadre including DPM attended and 20 Millet farmers.



The above team also conducted CCE on the control Pedda Sama Plot of Karabali village on Mr. Killo Mahadev field on 28-10-2023. Mahadev followed the broadcast method in his half-acre land of red soil. He sown seeds on 6<sup>th</sup> June 2023 and applied 500kg of FYM and 200 litres of Drava Jeevamrutham, weeding was not done in this plot.



The yields are recorded as follows.

| Plot | Crop       | Group        | 5*5 m <sup>2</sup> yield in kgs | Actual Moisture % | 5*5 m <sup>2</sup> yield in kgs with 12% moisture | Net grain yield/acre (@12% moisture) |
|------|------------|--------------|---------------------------------|-------------------|---|--------------------------------------|
| 1    | Pedda Sama | Experiment   | 5.59                            | 13                | 5.16  | 8.36                                 |
| 2    | Pedda Sama | Control Plot | 2                               | 17                | 1.41  | 2.29                                 |



The data reveals that 3 times more yield was recorded from the Pedda Sama through the Intensification method when compared with the broadcast method followed by the same soil type and seeds.



As per the report of front-line demonstration – Annual report of AICRPSM 2022, Vizianagaram ARS recorded **1745kg/ per ha** through the improved variety of BL-6. In the case of farmer Killo Govind achieved **2090 kg/ per ha** with local landrace. There is a high potential for local varieties to enhance crop productivity through better agronomy practices under natural farming.

#### ■ EXPERTS FROM UNIVERSITIES AND KVKS WHO HAD JOINED IN THE ABOVE CC EXPERIMENT:

- Smt. Ujwala from RARS, Chinthapalli
- Sri. Rajakumar from KVK Kondempudi,
- Smt. Neelaveni MAO, Dumbriguda,
- Mr. Jagannadh, Dot center Paderu
- Mr Devullu, SRP from RYSS
- Mr. Bhaskar Rao DPM from RYSS
- Mr. T. Narsinga Rao, PO, WASSAN

#### ■ UPCOMING PEDDA SAMA CC EXPERIMENT PLAN IN NOVEMBER

| Date of CCE | Mandal       | Village       | Farmer Name | Contact person  | Contact Number |
|-------------|--------------|---------------|-------------|-----------------|----------------|
| 30-10-2023  | Dumbriguda   | Odiyavalasa   | K Sriramulu | T. Narasingarao | 9491787476     |
| 01-11-2023  | Dumbriguda   | Killoguda     | K Dayanidhi | T. Narasingarao | 9491787476     |
| 02-11-2023  | G. Madugula  | Solabham      | Venkatarao  | DPM Bhaskararao | 9494770629     |
| 02-11-2023  | G. Madugula  | Solabham      | Venkatarao  | DPM Bhaskararao | 9494770629     |
| 04-11-2023  | Hukumpeta    | Rangasila     | K. Dharma   | T. Narasingarao | 9491787476     |
| 04-11-2023  | Dumbriguda   | Pedda Anjoda  | P. Govind   | T. Narasingarao | 9491787476     |
| 05-11-2023  | Dimbriguda   | Chinna anjoda | Rajaroo     | T. Narasingarao | 9491787476     |
| 05-11-2023  | Araku Valley | Garadaguda    | Budra       | T. Narasingarao | 9491787476     |