

## EXPLOITABLE FOREGROUND

### New sweet sorghum cultivar for mid-season drought stress tolerance - ICSV 25300

#### Explanation and Purpose

This SWEETFUEL exploitable result presents an improved sweet sorghum variety developed at ICRISAT-Patancheru, India by pedigree selection from a cross between DSV 4 x SSV 84. It is tolerant to mid-season moisture stress, which is common during summer season in India. It possesses waxiness, high vigour and shows better survival rate under mid-season moisture stress. It flowers in 69 days and grows to height of 2.7 m. It records 35.02 t ha<sup>-1</sup> stalk yield, 12.5 t ha<sup>-1</sup> juice yield, 17% brix and 1.5 t ha<sup>-1</sup> sugar yield along with grain yield of 2.3 t ha<sup>-1</sup>. This variety is expected to suit multiple cropping systems due to early maturity.



#### Exploitation Strategy

This variety is well adapted to both rainy and postrainy seasons. Further it has tolerance to mid-season moisture stress. It can be tested in India, Mexico, South Africa, Brazil, USA, Philippines and China for local adaptation.

#### IPR Measures

This SWEETFUEL exploitable result is freely available and the breeding material developed is available freely to SWEETFUEL partners and public sector partners, while private partners can avail the material by becoming members of hybrid parents research consortium and complying of appropriate Material Transfer Agreements.

#### Further Research

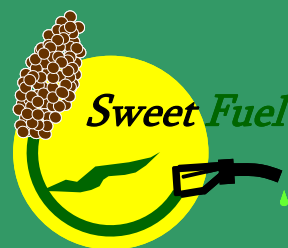
Further research includes further testing in hybrid combination with a set of A-lines in a broader range of environments. It's adaptation to other regions can be assessed through multilocation and multi seasonal trials.

#### Impact of Exploitation

This variety can be a good source of sugar for biofuel production and it can also be used as fodder, thereby offering opportunities to small farmers for enhancing their income opportunities.

## SWEETFUEL

### Sweet Sorghum: an alternative energy crop



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