

Journey of plant DNA Fingerprinting Services (PDFS) at CDFD

Plant DNA Fingerprinting Services (PDFS) was established at DBT's Centre for DNA Fingerprinting & Diagnostics (DBT-CDFD), Hyderabad in September, 2016. The objectives of this division are to:

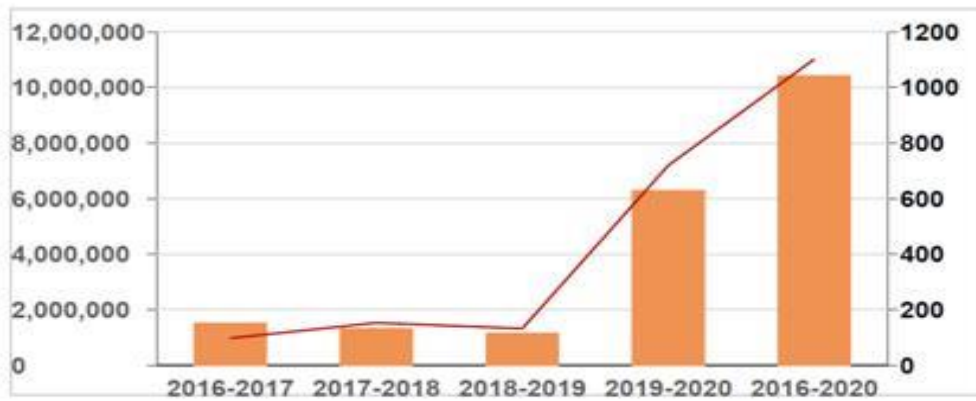
- 1) Analyse the purity of *Basmati* samples received from Export Inspection Council, Ministry of Commerce, Govt. of India, *Basmati* rice exporters and *Basmati* importers from India and other countries,
- 2) Undertake DNA Fingerprinting of cultivars and hybrids of crop plants,
- 3) Perform purity testing of hybrids.

So far 1033 *Basmati* samples have been analysed. DNA fingerprinting of 4 rice cultivars and seven rice hybrids was undertaken and the revenue generated was around one crore. New SSR and SNP based marker panels for *Basmati* purity testing are being generated keeping in view of the identical profiles of new notified *Basmati* varieties with that of adulterants. A method to test the purity of CMS lines used in the production of rice hybrids has been standardised which is a simple, accurate and cost-effective method and can test 20 samples at a time within 2 days.

Number of samples received and Revenue generated from 1st April 2016 to 31st March 2020

Year (April to March)	Samples received		Total Revenue
	Basmati	Cultivars/Hybrids	
2016-2017	153	0	Rs. 9,75,360
2017-2018	134	0	Rs. 15,30,000
2018-2019	112	4	Rs. 13,22,790
2019-2020	622	7	Rs. 71,96,825
Total	1033	11	Rs. 1,10,24,975

Number of samples received and Revenue generated from 1st April 2016 to 31st March 2020



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