Name of the technology : **CTRI Naveena (FCJ 11)**

Year (s) of development : 2023

Technology details

CTRI Naveenais a somaclones having a yield potential of more than 3300 kg/ ha and can even yield up to 3900 kg/ha under favorable conditions. It can withstand rain damage to certain extent during crop growth compared to other varieties grown in this region. Recommended for cultivation into Northern Light Soils of Andhra Pradesh.

Plants of FCJ-11 are open conical in shape and grows to about 180 cm height. The leaves long (-84 cm), broad (~39 cm), sessile, broad elliptic in shape and strongly recurved with strongly pointed tip. The leaves are dark green in colour with strong puckering. The cultivar produces around 35 total leaves with around 32 good bodied curable leaves. Cured leaf is bright lemon to arrange in colour with good aroma.The cured leaf has acceptable range of physical, chemical and smoke parameters.CTRI Naveena shows lower incidence of *Spodoptera*, budworm and aphids under field condition. The contents of nicotine (1.9-2.29%), reducing sugars (13.9-17.85 %) and chlorides (0.16-1.65 %) are within the acceptable range.

Impact of the technology

CTRI Naveena found to be remunerative (B:C ratio 1.57) to farmers with an additional revenue of ~Rs. 50,000/- per ha than existing varieties. It occupied 15% (6,375 ac) of NLS area (42,500 ac) during 2022-23. It gives nearly 900 kg additional yield than existing variety, Kanchan.

Publications/Commercialization

- Sarala, K., P. Venkateswarlu, T.G.K. Murthy, K. PrabhakaraRao, A.V.S.R. Swamy, Y. Subbaiah and D. Damodar Reddy. 2021. FCJ-11: An FCV somaclone suitable for cultivation under NLS of Andhra Pradesh. Tob. Res. 47(2): 85-93.
- Sarala. K., K. Prabhakara Rao and D. Damodar Reddy. 2020. FCJ 11: A high yielding FCV tobacco cultivar for Northern Light Soils of Andhra Pradesh. ICAR-CTRI, Rajahmundry.
- Indian Tobacco – Compendium of Varieties - 2019

Investigators/ Developers

K. Sarala, P. Venkateswarlu, T.G.K. Murthy, K. Prabhakara Rao, A.V.S.R. Swamy, Y. Subbaiah, C. C. S. Rao, D. Damodar Reddy, M. SheshuMadhav, S. Kasturi Krishna, S. V. Krishna Reddy and U. Sreedhar