

## Profile of Scientist



**1. Name of the Scientist:** Dr Vinod Kumar Gupta

**2. Personal Bio data:** ERP id:012438

**a) Position/Designation:** Principal Scientist (Plant Breeding)

**b) Contact Details:**

**i. ICAR Email ID:** ..... @icar.gov.in

**ii. Personal Email** <ID:drguptavinod57@gmail.com>

**iii. Mobile No.:** 09431175837 & 09919737690

**c) Joining date in:**

**i. ICAR:** 08.05.1986( iari), at NAARM as (ARS -21.01.1992)

**ii .at ICAR -IISR:** 08.02.2016

**d) Discipline and Specialization:** Plant breeding, specialization in, plant

Genetic Resources (PGR) activities, crop improvement& breeding

Activities in *Brassica spp*, Makhana (*Euryale ferox* ) and Sugar yielding crops

**e) Training/advance exposure in the area of work:** PGR collection to conservations *in ex-situ, & in -situ, field gene bank* of Agric –horti crops and M&A plant. Improvement of makhana crop and *Brassica* crops and rightly exposure to sugar yielding crops.

**f) Contribution to the scientific advancement:** After Joining Feb. 2016 at ICAR-IISR – Lucknow, developing the skilled and t understanding Sugarcane, and Sugar beet crops, also developing concept to diversification of sugar beet.

During services to NBPGR, aprox 4000 germplasm samples were collected of various Agri-horti crops +( plus)M&A plants, by undertaking Forty ( 40 )Plant Explorations to collected our Plant Genetic Heritage of agric-germplasm, from remote places and tribal pockets , for future research for mankind food security. These germplasm was conserved by respective method under field gene bank or *Ex-situ , In -situ, & Cryo-methods* respectively in lab and field

During Head ship at-ICAR-Makhana Research Centre, developed

**1st ever variety Makhana : Swarn Vaidehi** – It is 1st variety of Makhana in ICAR History, which 15 day early and 75% more yield, seed more round black seeds, pops, has less moisture content and superior in nutritional profile, pop round crispy We, also developed a **technique to grow makhana in farming system mood with 5 month maturity**, In traditionally it took 10-11 month period, which enhance the field cropping intensity 200-300%. 1<sup>st</sup> intervention of mechanization, Makhana and Makhana **1<sup>st</sup> Popping was developed in year 2013** with help of Makhana Research Centre- Darbhanga and CIPHET- Ludhiana . It is 1<sup>st</sup> machine in ICAR – history.” Boat mounted Makhana Harvester” was developed by help Makhana Research Centre and CIAE – Bhopal, **1<sup>st</sup> technical book on progressive cultivation of makhana** was written by us in( English & Hindi). 50 germplasm was collected of this crop& also Its popularized in other states.

**3. Future Planning of research (in bullets):** Joining Feb, 2016 at ICAR-IISR –Lucknow,

\* Study the important reference, of sugarcane and sugar beet and find out opportunity and constraints ,sugar crops and its uses.

\*. To developing the **understanding about sugarcane**, and Sugar beet crops, also developing concept to diversification of sugar beet.

\*Like to proposed the **PGR activities of sugarcane** , sugar beet germplasm,.

\* **Diversification of Sugar beet crop** for various research for diversification & uses

\***100% assistance in day to day office activities** at sugarcane institute.

\* Participation in extension activities and involvement in **Mera Gao Mera Gaurav**

**4. Publications (best five):**

**1- Gupta VK and Jan B R(2001) . Genetic variability in Aonla in Chattishgarh.**

*Indian J,PI Genet. Resource, (14)219-220.*

**2-Gupta V K, Arunachalam A and Katihar R K (1993).Utilization of Plant Germplasm for Earliness and Improvement of Brassica campestris var yellow sarson, . Indian J. Pl. genet Resource(8):2215-219.**

**3- Khadatkar A..., Gupta VK (2015): Interventions in reducing drudgery of workers in traditional way of harvesting makhana seeds from ponds..**

**Currents Science, Vol:109 (7) 1332-1337.**

4- Kumar Lokendra **Gupta VK.**, Bhatt B.P-- (2014) Divergence analysis in Makhana (*Euryale ferox salisb.*) **International Journal of Agriculture and Statistical Science.vol:10 page 124-128.**

5.-Ram D, **Gupta VK** and Kalloo. G ( 2008): Green hot spot: Eastern Uttar Pradesh-A Core Site intensive Vegetable Cultivation and production **India.J.Pl.Genet.Resources.12( 2). 247-253.**

6- Asim Nath **Gupta V. K.**, (2010): Zooplankton diversity in north Bihar in Darbhanga **Journal of – fisheries biology 45(1): 42-44..**

7- Nath, Vishal, Das Bikash Singh, H. S. **And V. K. Gupta**(2005) Mango decline in Bihar needs special attention. **Progressive Horticulture. Nov. (1)2005.65-70.**

8-Kumari Anubha Singh. I.S., and **GuptaV.K.** (2014): Morphological Characterization of Makhana Germplasm of Manipur under Darbhanga condition: **Journal of Agri Search.1(3): 157-130.**

9-Katiyar, R. K and **V. K. Gupta.**(1987): Root tumor in inter specific cross of *Brassica. sp.* **Indian J. Agric. Sci. 57 (12) : 927-930**

10- Katiyar, R. K and **V. K. Gupta:** (1986). Matro -morphic seed formation in *Brassica spp.* and *Eruca sativa..Crop Improvement. 13(2) : 211-212*

#### **5. Other relevant activities of Scientist:**

\*ICAR-IMC , member for icar- nrc on litchi- Muzaffarpur-842002 Biha.

\*UGC recognized honoured for nominated as a member of Internal quality Assurance cell (IQAC ), for LNM University Darbhanga.

\* 12 week visit to USA under USDA-AID – Programme to get training –cum visit to different USA agriculture Universities laband Biodiversity cited visited,

\*Under Agric- Biodiversity Programme(NATP), 40 Explorations were undertaken in the various districts of 8 states , about 4000 precious landraces / primitive lines of germplasm agri horti crops were collected and hand it over to ICAR- NBPGR New Delh for LTS, MTS , CRY- conservation and field gene bank .and lastly conserved in NATIONAL GENE BANK.