

OFFICE OF THE PROJECT OFFICER (IADP): GOVT. OF NCT DELHI

**Development Department: 11th Floor, MSO Building, I.P. Estate,
I.T.O., New Delhi-02, Tel: No.23714472, E-mail: jdagridelhi@gmail.com**

No. F.10(1)(2)/SI/TA/Sub-Committee/2017-18/2332 - 2373

Dated: 12/02/2021

Proceeding of the meeting of the State Seed Sub-Committee for Agricultural & Horticultural Crop, Govt. of NCT of Delhi held under the Chairmanship of the Secretary-cum-Commissioner (Development), Govt. of NCT of Delhi through Video Conference on 04/02/2021.

The 9th Meeting of Delhi State Seed Sub-Committee for Agricultural & Horticultural Crops in respect of NCT of Delhi was held through Video Conference on 04/02/2021 for considering the proposals of 36 Agricultural & Horticultural Crops varieties developed by the Scientists of Indian Agricultural Research Institute (IARI), Pusa, which are identified by the IARI Variety Identification Committee (IVIC) and suitable for cultivation in the NCT of Delhi.

List of the participants is mentioned vide Annexure-I.

At the outset of the Video Conference, the Director, Indian Agricultural Research Institute (IARI) welcomed the Chairman and the participants of the Committee and briefed the objective of the Meeting and activities of IARI, Pusa being undertaken for the welfare of farmers.

As per the agenda, following crop-wise online presentation was conducted through 'Power-Point Presentation' by the Scientists who developed the respective variety for consideration of the DSSSC:-

S.NO.	Crop and Variety	Special features
1.	Crop: Mungbean Variety: Pusa 1641	Variety has been tested in NCR for three years. It has average seed yield of 13.1 q/ha which is superior to Pusa 9531 (11.5 q/ha), IPM-2-03 (11.7 q/ha). Pant Mung 5 (11.7 q/ha) and Pusa Vishal (11.6 q/ha) under NCR. It has been tested in NWPZ under AICRP MULLaRP trials during 2016, 2017 and 2018. It is a short duration variety which matures in 63 days. The variety is suitable for summer irrigated conditions and has resistance to YVMV. Recommended for release in NCT of Delhi.
2.	Crop: Soybean Variety: DS 3106	Soybean variety DS 3106 has been tested in NCR for three years. Its average seed yield under NCR is 21.4 q/ha and it out yielded three check varieties SL688, PS1347 and Pusa 9712 by 23.7%, 5.4% and 20%, respectively. It matures in 124 days. It has been tested under AICRP on Soybean during 2016 to 2018 in Northern Zone. Recommended for release in NCT of Delhi.
3.	Crop: Pigeon pea Variety: Pusa Arhar 2018-2	It is an early maturing pigeonpea variety with semi-erect compact plant type. It has average seed yield of 23.52 qt/ha under NCR conditions which is higher than the checks PAU 881 (20.12 %), Manak (35.40 %) and VLA-1 (8.38 %). It matures in 132 days which is 13 days, 12 days and 2 days early than check varieties Manak, VLA-1 and PAU 881, respectively. Overall Pusa 2018-2 had very low incidence of different diseases at various locations. Recommended for release in NCT of Delhi..
4.	Crop: Pigeon pea	It is an extra early maturing pigeonpea variety with semi-erect compact plant type. It has average seed yield of 21.57 qt/ha under

15.	Crop: Cucumber Variety: Pusa Pickling cucumber-8 (DG-8)	First improved variety of parthenocarpic gynoecious pickling cucumber suitable for protected cultivation for NCR Delhi in winter season under polyhouse and spring summer under insect proof nethouse. Average fruit yield is 84.9 t/ha during winter season under low cost polyhouse which is 19.2% superior over Check (Annaxo). Fruits are ready for first harvesting in 40-45 days after sowing during winter season. Average fruit length is 8.5 cm, width is 2 cm and weight is 18-20 g. Recommended for release in NCT of Delhi.
16.	Crop: Satputia Variety: DSat-4 (Pusa Tripti)	An early high yielding variety for spring summer and kharif seasons suitable for NCR Delhi. Average fruit yield is 15.5 t/ha which is 35% superior over the check variety Kashi Khushi. Average fruit weight is 20-22 g at marketable stage. Fruits are ready for harvesting in 48-50 days and 42-45 days after sowing during spring summer and kharif seasons, respectively. Fruits are elliptically elongated dark green and have soft flesh at edible maturity stage. Recommended for release in NCT of Delhi.
17.	Crop: Muskmelon Variety: DHM-39 (Pusa Sunehari)	Variety of speciality melon with high yield and better fruit quality which is suitable for growing in North Indian Plains from Feb to June under net house and from Aug-Sept to Nov-Dec under nethouse/polyhouse. Average fruit yield is 5.5 t/1000 sqm under nethouse. Fruits get ready for harvest in about 85 days after sowing. Fruit is oblong shape with average weight of about 1500 g. Fruit flesh is crispy, light orange with no musky flavour and high sweetness (TSS 13.8oB). Shelf life is very high and can be stored for 15-20 days at room temperature. Recommended for release in NCT of Delhi.
18.	Crop: Muskmelon Variety: DMM-148 (Pusa Kazri)	Early maturing muskmelon variety suitable for growing in NCR Delhi from March to June. Average fruit yield is 22.7 t/ha. Fruits are flat round with average weight of 750 g. Fruit gets ready for harvest in 72 days from sowing. Fruit flesh is thick, green, juicy and crispy with medium musky flavour and high sweetness (TSS 12oB). Recommended for release in NCT of Delhi.
19.	Crop: Cabbage Variety: Pusa Red Cabbage Hybrid-1 (KTCBH-R-7)	This is the first hybrid of red cabbage from public sector in India, developed using the cytoplasmic male sterility (CMS) system. The average head weight and yield under multilocation evaluation trials is 1.10 kg and 43.63 t/ha, respectively and which is 10.52% and 21.41% higher in yield over the commercial hybrids, Pusa Cabbage-1 and Primero, respectively. It matures in 70-75 days after transplanting and has an excellent field staying capacity (25-30 days). The anthocyanin concentration in the edible portion is 7.94 mg/100 g (7.5 times higher than that in white cabbage, 1.05 mg). Recommended for release in NCT of Delhi.
20.	Crop: Sponge Gourd	It is a leaf curl virus disease resistant variety with average fruit yield of 17.8 t/ha, which is 31% and 260% higher than the

	Variety: Pusa Sponge Gourd-29 (DSG-29)	resistant check, DSG-6 and susceptible check, Pusa Supriya under natural field condition. It is highly resistant to leaf curl disease under field condition with vulnerability index of 8.5 as compared to 87.2 in susceptible check Pusa Supriya. Recommended for release in NCT of Delhi.
21.	Crop: Brinjal Variety: Pusa Safed Baingan-2	Average fruit yield of this variety is 40 t/ha with average fruit weight of 80-100 g with white and long (15-20 cm) fruits. . It is suitable for growing in <i>kharif</i> season. Plant type is dwarf and semi-spreading habit. Fruits borne in cluster as well as solitary. It is rich in total phenols (97.72 mg GAE/100 g) and antioxidant (CUPRAC-94.20 mg GAE/100g, FRAP-100.93 (mg GAE/100g). Recommended for release in NCT of Delhi.
22.	Crop: Brinjal Variety: Pusa Hara Baingan-1 (G-190)	Fruits are long (18-20 cm) and green in colour. The average fruit weight 100 g. First picking starts at 50-55 day after transplanting. The variety has been tested for the years 2017 to 2020 at IARI, New Delhi; IARI, RS, Karnal; KVK, Shikhopur; and at KVK, Ujwa. The average yield is 38.5 t/ha. It is very rich in total phenols (97.72 mg GAE/100 g) and antioxidant (CUPRAC-131.83 mg GAE/100g, FRAP-160.47 (mg GAE/100g). Recommended for release in NCT of Delhi.
23.	Crop: Okra Variety: Pusa Okra Hybrid-1 (DOH-1)	It is a high yielding hybrid (26.3 t/ha) with attractive dark green and tender fruits. It is resistant to Yellow Vein Mosaic Virus (YVMV) & Enation Leaf Curl Virus (ELCV) diseases under field condition, and tolerant to leafhopper and red spider mites. It has uniform and prolific bearing at shorter internodes. Suitable for cultivation in <i>kharif</i> as well as spring summer season. Recommended for release in NCT of Delhi.
24.	Crop: Bitter Gourd Variety: Pusa Bitter Gourd Hybrid-5 (DBGH 159)	Average fruit yield is 24.5 t/h, which is higher (22%) than the national checks Pusa Hybrid 2 and NBGH-167. It is suitable for spring-summer season in open field condition with higher female to male flower ratio (2:1). The fruits are dark green with average fruit length of 15.5 cm and diameter 6.0-6.5 cm with 5-6 discontinuous narrow ridges. The first fruit harvest is in 44-48 days and average fruit weight of 70 g. Recommended for release in NCT of Delhi.
25.	Crop: Pummelo Variety: Pusa Arun	Suitable for NCT of Delhi. First seedless Pummelo mutant of India with high juice recovery. Higher fruit yield (45.55 kg/tree and 28.47 t/ha) which is four folds higher than wild type Pummelo (white fleshed). Juice has very low acidity (0.39% citric acid), high ascorbic acid (512 mg/lit juice) and high TSS (11.1 °B). Fruit is ready to harvest 15 days earlier than other sweet citrus varieties of sweet orange, grape fruit and pummelo. Recommended for release in NCT of Delhi.
26.	Crop: Mango Hybrid: H-11-2	Suitable for NCR Delhi. Average fruit yield is 13.99 t/ha which is double than Dashehari. Elongated oblong fruit with average weight of 265 g. It has better quality viz., high pulp content (70%), Fibre less, TSS (18.67%), acidity (0.33%), ascorbic acid (35.34 mg/100 g pulp) and β -carotene content (9483.3 μ g per 100

-8-

As per the observation of Additional Director General (Horticulture), ICAR, and the pertinent deliberations held, it was decided by the Director that the IARI will develop a mechanism to collaborate with the farmers of Delhi and conduct field trials and demonstrations of the above mentioned varieties at the farmers' field.

Additional Director General (Seeds), ICAR, stated that meanwhile there are certain changes approved by the IARI Variety Identification Committee in respect of proposal of Papaya variety Pusa Mahdu (PS-3), therefore, release of said Papaya (PS-3) variety is deferred.

As per the special features, in respect of proposed crop varieties described and discussion held thereon, the Chairman, Delhi State Seed Sub-Committee is pleased to recommend the release of above mentioned 35 proposals of Agricultural & Horticultural crop varieties except Papaya (PS-3), vide S. No. 29, for the geographical area of the National Capital Territory of Delhi.



(A.P. Saini)

**PO(IADP)-Cum-Co-Convener
State Seed Sub-Committee**

No. F.10(1)(2)/SI/TA/Sub-Committee/2017-18/2332 - 2373

Dated: 12 /02/2021

Copy to:-

1. Sh. Madhup Vyas, Secretary-cum-Commissioner Development, GNCT of Delhi & Chairman
2. Dr A.K. Singh, Director, IARI & Member
3. Dr D.K. Yadava, ADG (Seeds), ICAR & Member
4. Dr Vikramaditya Pandey, ADG (Horticulture), ICAR & Member
5. Director (Horticulture), Environment & Forest, Deptt., Govt. of NCT of Delhi & Member.
6. Dr B.S. Tomar, Head, Division of Vegetable Science, IARI & Member
7. Dr S. K. Chakrabarty, Head, Division of Seed Science and Technology, IARI & Member
8. Dr K.K. Gangopadhyay, Principal Scientist, NBPGR & Member
9. Dr P.K. Gupta, Director, NHRDF & Member
10. Sh. Jagdish Gogia, Hindustan Seed Pesticide, Representative of Seed Dealer and Member
11. Mr Ishwar Chander Pahuja, Nominee of Seed Producers and Dealers and Member
12. Dr G.K. Mohapatra, Head, IARI, Regional Station, Pune
13. Dr S.S. Sindhu, Head, Division of Floriculture and Landscaping, IARI
14. Dr Rajbir Singh Yadav, Head, Division of Genetics, IARI
15. Dr S.K. Singh, Head, Division of Fruit and Horticulture Technology, IARI
16. Dr Chandra Prakash, Head, IARI Regional Station, Katrain
17. Dr T.K. Behra, Professor, Division of Vegetable Sciences, IARI
18. Dr. A.D. Munshi, Principal Scientist, Division of Vegetable Sciences, IARI
19. Dr H.K. Dikshit, Principal Scientist, Division of Genetics, IARI
20. Dr S.K. Lal, Principal Scientist, Division of Genetics, IARI
21. Dr R.S. Raje, Principal Scientist, Division of Genetics, IARI
22. Dr S.S. Dey, Senior Scientist, IARI
23. Dr B.B. Singh, Senior Scientist, IARI
24. Dr R.K. Yadav, Principal Scientist, Division of Vegetable Sciences, IARI
25. Dr Partha Saha, Scientist, Division of Vegetable Sciences, IARI
26. Dr P.K. Singh, Principal Scientist, CPCT, IARI
27. Dr Harshavardhan Choudhary, Division of Vegetable Sciences, IARI
28. Dr V.B. Patel, Principal Scientist, Division of Fruit and Horticulture Technology, IARI
29. Dr Jai Prakash, Principal Scientist, Division of Fruit and Horticulture Technology, IARI
30. Dr A.K. Dubey, Principal Scientist, Division of Fruit and Horticulture Technology, IARI
31. Dr R.M Sharma, Principal Scientist, Division of Fruit and Horticulture Technology, IARI

**PROPOSAL for Release of Sponge gourd: Pusa Sponge gourd-29
For National Capital Region of Delhi**



**Submitted to
Delhi State Seed Sub-Committee**

**Proposed by
Dr. A.D. Munshi**



Sponsored by

**DIVISION OF VEGETABLE SCIENCE
ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE
NEW DELHI – 110012**

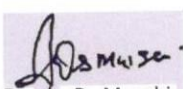
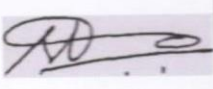
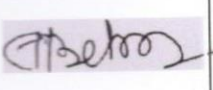
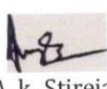
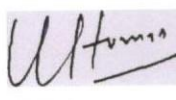
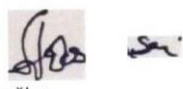
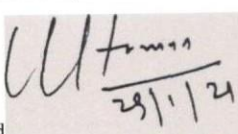
Summary of the proposal

Salient features of Sponge Gourd Variety DSG-29 (Pusa Sponge Gourd-29)

- First *ToLCNDV* resistant sponge gourd variety developed by public sector suitable for *Kharif* cultivation under North Indian plain.
- Fruits become ready for first harvesting in 45-50 days after sowing during *kharif* season.
- Fruits have desirable marketable attributes and are attractive, uniform, dark green, elongated, cylindrical, 22-24cm long, average fruit weight 105-110g, with superficial ribs, thick skin, smooth texture and white flesh which is highly acceptable to consumers.
- Presently, Northern plain farmers rely only on spring-summer crop and with the release of this variety; long term demand of the farmers can be met as they can successfully grow this crop during *Kharif* season without using any chemical pesticides.
- Average fruit yield is 17.8 t/ha which is 31% and 260% superior over resistant check, DSG-6 and susceptible check, Pusa Supriya under natural field condition
- Highly resistant under natural field condition with vulnerability index of 8.5 as compared to 87.2 in susceptible check Pusa Supriya

**Submission of proposal for release of crops/vegetables/flower/fruit variety to
Delhi State Seed Sub-Committee**

1.	Name of the crop and species	Sponge gourd (Luffa cylindrical L.)
2.a	Name of the variety under which tested	DSG-29
b.	Proposed name of the variety	Pusa Sponge Gourd-29
3.	Sponsoring institute	ICAR-Indian Agricultural Research Institute, New Delhi-110012.
4.a	Division/Regional Station or agency responsible for developing variety (with the full address)	Division of Vegetable Science ICAR-IARI, New Delhi-110012
b	Name of the persons who helped in developing the variety	1. Dr. A.D. Munshi (Principal Scientist, Vegetable Science) 2. Mr. Jogendra Singh (Scientist, Vegetable Science) 3. Dr. Shyam Sundar Dey (Sr. Scientist, Vegetable Science) 4. Dr. T.K. Behera (Principal Scientist, Vegetable Science) 5. Dr. Amish K. Sureja (Principal Scientist, Vegetable Science) 6. Dr. B.S. Tomar [Principal Scientist (Seed Technology) & Head – Vegetable Science] 7. Dr. Amalendu Ghosh (Scientist, Division of Plant Pathology) 8. Dr. V. K. Pandita, Head, ICAR-IARI, RS, Karnal
5.a	Parentage (with details of its pedigree, including source from which variety has been developed)	Developed by hybridization and individual plant selection from a cross between highly resistant genotype, DSG-6 and a moderately tolerant line, DSG-51.
b	Source of material in case of introduction	NA
c	Breeding method used	Hybridization followed by individual plant

Davelopors			
 Dr. A. D. Munshi	 Mr. JogenJra Sixj;h	 Dr. Sbyon1 Sundar	 Dr. T. K. Bahcrn
 Dr. A. k. Stireja	 Dr. B.S. 'Foinar	 Dr. Amalendu Sphosh	 Dr. V. K. PanjiCx
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Dr. Ashok Kumar Singh
Joint Director (Research) & Director
ICAR-Indian Agricultural Research Institute
New Delhi - 110012

Proceedings of "IARI Variety Identification Committee" meeting held under the Chairmanship of Dr. D.K. Yadava, ADG(Seed), ICAR on 30.01.2021 at 11.00 AM in the Board Room of ICAR-Indian Agricultural Research Institute, New Delhi

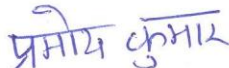
IARI Variety Identification Committee meeting was held under the Chairmanship of ADG (Seed), ICAR on 30.01.2021 at 11.00 AM to consider the variety identification proposals of different field and horticultural crops. The meeting was attended by the Members of the IVIC and respective developer(s) of the varieties (*Annexure-I*). After the formal welcome of all the members of IARI Variety Identification Committee and special invitees, the criteria for considering the varieties for identification and further release for National Capital Region was briefed. Principal developers of the varieties made detailed presentations of the respective varieties and after thorough discussions, the following recommendations were made by the Committee:

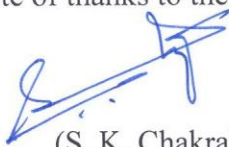
Crop and Variety	Special features
Crop: Cabbage Variety: Pusa Red Cabbage Hybrid-1 (KTCBH-R-7)	This is the first hybrid of red cabbage from public sector in India, developed using the cytoplasmic male sterility (CMS) system. The average head weight and yield under multilocation evaluation trials is 1.10 kg and 43.63 t/ha, respectively and which is 10.52% and 21.41% higher in yield over the commercial hybrids, Pusa Cabbage-1 and Primero, respectively. It matures in 70-75 days after transplanting and has an excellent field staying capacity (25-30 days). The anthocyanin concentration in the edible portion is 7.94 mg/100 g (7.5 times higher than that in white cabbage, 1.05 mg). Recommended for release in NCR, Delhi.
Crop: Sponge Gourd Variety: Pusa Sponge Gourd-29 (DSG-29)	It is a leaf curl virus disease resistant variety with average fruit yield of 17.8 t/ha, which is 31% and 260% higher than the resistant check, DSG-6 and susceptible check, Pusa Supriya under natural field condition. It is highly resistant to leaf curl disease under field condition with vulnerability index of 8.5 as compared to 87.2 in susceptible check Pusa Supriya. Recommended for release in NCR, Delhi.
Crop: Bitter Gourd Variety: Pusa Bitter Gourd Hybrid-5 (DBGH 159)	Average fruit yield is 24.5 t/h, which is higher (22%) than the national checks Pusa Hybrid 2 and NBGH-167. It is suitable for spring-summer season in open field condition with higher female to male flower ratio (2:1). The fruits are dark green with average fruit length of 15.5 cm and diameter 6.0-6.5 cm with 5-6 discontinuous narrow ridges. The first fruit harvest is in 44-48 days and average fruit weight of 70 g. Recommended for release in NCR, Delhi.
Crop: Brinjal Variety: Pusa Safed Baingan-2	Average fruit yield of this variety is 40 t/ha with average fruit weight of 80-100 g with white and long (15-20 cm) fruits. . It is suitable for growing in <i>kharif</i> season. Plant type is dwarf and semi-spreading habit. Fruits borne in cluster as well as solitary. It is rich in total phenols (97.72 mg GAE/100 g) and antioxidant (CUPRAC-94.20 mg GAE/100g, FRAP-100.93 (mg GAE/100g). Recommended for release in NCR, Delhi.
Crop: Brinjal Variety: Pusa Hara Baingan-1 (G-190)	Fruits are long (18-20 cm) and green in colour. The average fruit weight 100 g. First picking starts at 50-55 day after transplanting. The variety has been tested for the years 2017 to 2020 at IARI, New Delhi; IARI, RS, Karnal; KVK, Shikhopur; and at KVK, Ujwa. The average yield is 38.5 t/ha. It is very rich in total phenols (97.72 mg GAE/100 g) and antioxidant (CUPRAC-131.83 mg GAE/100g, FRAP-160.47 (mg GAE/100g).

	Overall Pusa 2018-2 had very low incidence of different diseases at various locations. Recommended for release in NWPZ.
Crop: Pigeon pea Variety: Pusa Arhar 2017-1	It is an extra early maturing pigeonpea variety with semi-erect compact plant type. It has average seed yield of 21.57 qt/ha under NCR conditions which is higher than the checks PA 291 (25.5 %), PAU 881 (24.42 %) and Pusa 992 (17.41 %). It matures in 136.5 days which is 19 days, 30 days, 1.5 days early than check varieties Pusa 992, PA 291 and PAU 881, respectively. Pusa 2017-1 had lower cumulative per cent damage due to three main pod boring pests viz., <i>Maruca</i> + <i>Helicoverpa</i> + pod fly compared to checks viz., PA 291, PAU 881. Recommended for release in NWPZ.

1. The release proposals of the recommended varieties in the prescribed format alongwith necessary yield and ancillary data need to be submitted to PME Cell by 02.02.2021.
2. The data pertaining to diseases and pest infestations should be presented in the respective proposal
3. The issue of order of names of variety developers in case of Papaya variety, Pusa Madhu was discussed and it was suggested that all those who have contributed in variety development should get due credit and it will be decided by the Director, ICAR-IARI.
4. A standard pattern of nomenclature of varieties in different field crops/vegetables/fruits / flower should be followed. It should start with Pusa followed by crop name and serial number of variety.
5. It should ensure that the proposals are submitted to CVRC in proper format and must have the required documents viz., acknowledgement certificate regarding submission of seed sample with NBPGR, detailed morphological characters of varieties, AICRP data on disease and pests reaction, source of material and pedigree, package of practices of the cultivar, DNA fingerprinting profile, A-4 size coloured photographs on glossy sheet etc.

The meeting ended with the vote of thanks to the chair and participants.


(Pramod Kumar)
Incharge PME


(S. K. Chakrabarty)
Member Secretary


(D.K. Yadava)
Chairman

**List of the participants of Institute Varietal Identification Committee Held on 30.01.2021
under the Chairmanship of Director, IARI**

1.	Dr. D.K. Yadava, ADG (Seed), ICAR, New Delhi	Chairman
2.	Dr. Rashmi Agarwal, Dean & Head, Division of Plant Pathology	Member
3.	Dr. Sarvjeet Kaur, Director (In-charge), National Institute of Plant Biotechnology	Member
4.	Dr. Rajbir Yadav, Head (In-charge), Division of Genetics	Member
5.	Dr. S.S. Sindhu, Head, Division of Floriculture and Landscaping	Member
6.	Dr. B.S. Tomar, Head, Division of Vegetable Sciences	Member
7.	Dr. S.K. Singh, Head, Division of Fruit & Horticulture Technology	Member
8.	Dr. M. K. Dhillon, Principal Scientist, Division of Entomology	Member
9.	Dr. Pramod Kumar, In-charge, PME Cell	Member
10.	Dr. S. K. Chakrabarty, Head (In-charge), DSST, IARI	Member Secretary
11.	Dr. A.K. Dubey, Principal Scientist, Division of FHT	Special Invitee
12.	Dr. A.D. Munshi, Principal Scientist, Division of Vegetable Science	Special Invitee
13.	Dr. Partha Saha, Principal Scientist, Division of Vegetable Sciences	Special Invitee
14.	Dr. R.K. Yadav, Principal Scientist, Division of Vegetable Sciences	Special Invitee
15.	Dr. Praveen Kumar Singh, Principal Scientist, CPCT	Special Invitee
16.	Dr. S.S. Dey, Sr. Scientist, Division of Vegetable Sciences	Special Invitee
17.	Dr. Gograj Singh Jat, Scientist, Division of Vegetable Sciences	Special Invitee
18.	Dr. M.K. Verma, Principal Scientist, Division of FHT	Special Invitee
19.	Dr. Radha Mohan Sharma, Principal Scientist, Division of FHT	Special Invitee
20.	Dr. A.K. Tiwari, Principal Scientist, Division of FLS	Special Invitee
21.	Dr. Markandey Singh, Principal Scientist, Division of FLS	Special Invitee
22.	Dr. Namita, Sr. Scientist, Division of FLS	Special Invitee
23.	Dr. R.S. Raje, Principal Scientist, Division of Genetics	Special Invitee
24.	Dr. Amalendu Ghosh, Scientist, Division of Plant Pathology	Special Invitee
25.	Dr. Gunjit Kumar, Principal Scientist, PME and Division of FLS	Special Invitee