

**List of Patents/Copyright/Design Granted: 57 (Patents 24, Copyrights 16, Design 16, Trademark 01)**

**Patents Granted: 24**

Sr. No.	Technology Protected/ Patented	Inventor	Granted on	Patent/ Protection Details
1.	A Process of development of Anti- theileriosis vaccine	R.D. Sharma, Anil Kumar Nichani COVS	05.12.2005 in Sri Lanka, 01.06.2007 in Morocco & on 28.12.2007 in OAPI	Sri Lanka- Patent No. WO 2005/109991 A3, Morocco- Patent No. 28656 & OAPI- Patent No. 13625
2.	A process for Preparation of Diagnostics Reagent for testing of HS	Parul Sharma, R. S. Khokhar, COVS	30.03.2009	Patent No. –233446
3.	A new laboratory method for production of Pasteuria penetrans	Raman K. Walia, Anil Kumar, Satish Kumar Mehta COA	11.11.2010	Patent No. –243958
4.	A Process of preparation of Tissue Culture Medium for enhancing in-vitro Plantlet Regeneration in Air Yam Plant using Bacterial Culture Supernatant	Pushpa Kharb, Praveen Batra Vijay Chowdhury Kanta Dahiya, Victoria Yadav, Neeru Narula, Santosh Dhillon, COBS&H	22.07.2011	Patent No. 248511
5.	A process of testing urea in Milk& Solutions thereof	Gulshan Narang, R.S. Khokhar COVS	06.01.2012	Patent No. 250500
6.	A Novel Process of Genetic Transformation in Chickpea using Agro bacterium	Pushpa Kharb Praveen Batra Vijay Chowdhury COBS&H	23.05.2012	Patent No. 252590
7.	Development of low-cost liquid formulation of native strains of Bascillusthuringenesis against Helicoperva armigera	Kamla Chaudhary, Harish Dhingra, K.S. Boora COBS&H	03.08.2012	Patent No. 253532
8.	A method for the estimation of multi residue in milk and milk products	Beena Kumari COA	10.12.2013	Patent No. 258152
9.	An axial flow seed Thresher	N. K. Bansal B. S. Dahiya S. K. Lohan COAE&T	27.05.2014	Patent No. 260889
10.	A novel process of detection of Buffalo (Buballusubalis) Tissue using novel set of primers.	Gaya Prasad Hari Singh Minakshi COVS	03.07.2014	Patent No. 261631
11.	A novel process of detection of cattle tissue using cattle specific novel primer pair	Gaya Prasad Hari Singh Minakshi COVS	08.07.2014	Patent No. 261685
12.	A method for the estimation of multi residue in Butter/Ghee	Beena Kumari COA	09.05.2018	Patent No. 296648
13.	A process for production of Poly hdroxy butyrate (phb)	V.K. Sikka, Aarti Sharma,	14.05.2018	Patent No. 296744

	production from agri-by products by Rhizobia.	Praveen Kumar Sharma, COBS&H		
14.	SCAR marker based identification of sex in date palm	Pushpa Kharb, Charu Mitra COBS&H	30.10.2018	Patent No.302567
15.	A renewable resource drives starchy raw materials to ferment fast into ethanol	S.S. Dhamijia, Seema Sangwan COBS&H	27.11.2018	Patent No.303453
16.	A rapid and cost effective process for assessment of genetic purity in hybrids of pearl millet	Neelam Rani Yadav, Sandeep Yadav, Ram Chander Yadav, Hari Prakash Yadav, Deptt. Of MBB, COBS&H,	13/09/2019	Patent No.320441
17.	A Pricking Machine For Pricking Fruit	M K Garg, Dinesh Sharma Deptt.of Processing and Food Engineering, COAE&T	29/07/2020	Patent No. 342783
18.	Pedal operated machine for fruits and vegetables	Nitin Kumar, D.K. Sharma, M.K Garg Deptt. of Processing and Food Engineering, COAE&T	12.09.2022	Patent No. 406360
19.	De-stoning of Ber (Ziziphus mauritiana Lamk) fruits and its value addition	Mukesh Kumar, Devi Singh, R.K. Godara Deptt. of Horticulture, COA, Bawal	29.09.2022	Patent No. 408016
20.	Graphene Oxide-Polycarbonate Track-Etched Nanosieve Platform For Sensitive Detection Of Human Immunodeficiency Virus Envelope Glycoprotein	K.P. Singh, Anuj Nehra (CCSHAU) Dimiter Dimitrov, Annu Puri (USA rep by Secretary of DHHS)	30.11.2022	Patent No. 413178
21.	An efficient method for Transformation in pigeon pea	Dr. Pushpa Kharab, Praveen Batra, Rakshita Singh Deptt. of MBB&B, COBS&H, CCSHAU, Hisar	Patent granted on 23/10/2023	Patent No. 461481
22.	Improved method for synthesis of silver nanoparticles Using glycyrrhiza glabra	Pushpa Kharb, Kanika Rani Nisha Devi Prakash Banakar Dept. of MBB&B, COBSH, CCSHAU	Patent Granted on 21/12/2023	Patent No.486872
23.	A machine for removal of straw from harvested crops	Anil Kumar Vijaya Rani Mukesh Jain Parvesh Antil Kanishk Verma Nitin Karwasra Dept. of FMPE, COAE&T, CCSHAU	Patent Granted on 21/02/2024	Patent No.513479

24.	An Agricultural Machine For Harvesting Root Vegetables	Vinod Kumar Vijaya Rani Mukesh Jain Dept. of FMPE, COAE&T, CCSHAU	Patent granted on 13/03/2024	Patent No. 524820
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### Copyright Granted: 16

Sr. No.	Technology Protected/ Patented	Inventor	Granted on	Copyright/ Registration Details
1.	A Statistical Package for Mating Designs	L.S. Kaushik, D.R. Aneja, O.P. Sheoran COBS&H	05.05.2005	Copyright No. L-23301/2005
2.	Mathematical modelling for prediction of P.T.O. power requirement for rotavator	Vivek R. Kamat Mukesh Jain HemantPoonia	29/02/2020	Copyright No. SW-13325/2020
3.	Online Tool for analysis of series of Experiments in Randomized Block Designs	O.P. Sheoran Manoj Kumar Manju Singh Tonk Department of Mathematics & Statistics, COBS&H CCSHAU, Hisar	28/05/2020	Copyright No. SW-13436/2020
4.	Online Analysis Tool for computation of LC50, LD50 or GR50 (Probit Analysis)	O.P. Sheoran Manju Singh Tonk Ram Niwas Department of Mathematics & Statistics, COBS&H CCSHAU, Hisar	28/05/2020	Copyright No. SW-13437/2020
5.	Principal Component Analysis- Online Statistical Analysis tool	O.P. Sheoran Hament Poonia Manju Singh Tonk	27/05/2020	Copyright No. SW-13417/2020
6.	Development of Online Analysis tool for k-means cluster analysis	O.P. Sheroran Vinay Kumar Ramniwas Sheokand Dep. Of Math & Stat. CCSHAU	18.01.2021	Copyright No. SW-14121/2021
7.	Development of Web based Tool for Comparisons of Means (Post-Hoc Tests)	O.P. Sheroran Vinay Kumar Dep. Of Math & Stat. CCSHAU	23.02.2021	Copyright No. SW-14220/2021
8.	Development of Web based Application for Analysis of Augmented Designs	O.P. Sheroran Vinay Kumar Sarita Rani Dep. Of Math & Stat. CCSHAU	18.03.2021	Copyright No. SW-14301/2021
9.	Development of Web based tools for Analysis of Strip Plot and Latin Square Design	O.P. Sheroran Vinay Kumar Maju Singh Tonk Dep. Of Math & Stat. CCSHAU	18.03.2021	Copyright No. SW-14302/2021
10.	Development of App content for Mothers of Infants	Poonam Malik, Samanta, Department of HDFS, CoHS, CCSHAU, Hisar	17.05.2022	Copyright No. L-115521/2022

11.	Development of App content for pregnant women	Poonam Malik, Poonam Yadav, Department of HDFS, CoHS, CCSHAU, Hisar	17.05.2022	Copyright No. L-115520/2022
12.	Development Of Web Based Application For Analysis Of Triple Test Cross	O.P. Shoeran Vinay Kumar Dept. of Math & Stat., COBS&H, CCSHAU	Copyright Granted on 04/09/2023	Copyright No. SW-17203/2023
13.	Personality assessment tool	Renu Joshi, C.C.K SINGH Dept. of HDFS, COHS, CCSHAU	Copyright granted on 03/11/2023	Copyright No. L-135354/2023
14.	Development Of Web Based Application For Analysis Of Lattice Design (Symmetrical)	O.P. Shoeran Vinay Kumar Dept. of Math & Stat., COBS&H, CCSHAU	Copyright granted on 16/11/2023	Copyright No. SW-17600/2023
15.	Web Based Application For Analysis Of Asymmetrical Lattice	O.P. Shoeran Dr. Vinay Kumar Dept. of Math & Stat., COBS&H, CCSHAU	Copyright granted on 07/12/2023	Copyright No. SW-17725/2023
16.	Web Based Application For Analysis Of Triple Test For Back Cross Data	O.P. Shoeran Dr. Vinay Kumar Dept. of Math & Stat., COBS&H, CCSHAU	Copyright granted on 18/12/2023	Copyright No. SW-17857/2023

#### Design Granted: 16

Sr. No.	Technology Protected/ Patented	Inventor	Granted on	Design/ Registration Details
1.	Indian Gooseberry Pricking Machine	M.K. Garg, Dinesh Kumar Malik COAE&T	13.01.2004	Design No. 194255
2.	Composite Stool for Pruning and harvesting	Savita Kumari Manju Mehta Dept. Of FRM, COHS, CCSHAU	25/11/2019	Design No. 305095
3.	Multipurpose dispenser for honey bees	O.P. Chaudhary Regional Research Station, Uchani, Karnal 132001. Haryana. INDIA	Design granted 26/08/2020	Design No. 320896-001
4.	Pedal Operated Maize Sheller	Vinay Vijay K. Singh M. K. Garg P&FE, COAE&T, CCSHAU, Hisar	Design Granted on 30.09.2021	Design No. 317534-001
5.	Bead Product Workstation	Ekta Melkani Manju Mehta Deptt of FRM, COHS, CCS HAU Hisar	Design Granted on 20.12.2021	Design No. 339710-001
6.	Sugar assisted sugarcane	Arun Kumar Attkan,	Design	Design No.

	juice extraction cart	Sunil Kumar, Nitin Kumar, M.K. Garg, P&FE, COAE&T, CCSHAU, Hisar	Granted on 02.03.2022	339193-001
7.	SECATEURS	Kanchan Shilla, Binoo Sehgal, Manju Mehta Dept. of FRM COHS, CCSHAU	Design Granted on 13/01/2023	Design No. 356939-001
8.	Garlic Stalk cutter cum Grader Machine	Charan Singh Vijay K. Singh M.K. Garg Deptt. Of P&FE, COAE&T	Design Granted on 02/05/2023	Design No. 339194-001
9.	Versatile Handy Trolley	Aysha, Meenu Manju Mehta, Dept. of FRM, COHS, CCSHAU, Hisar	Design Granted on 17/08/2023	Design No. 386671-001
10.	Scholar's Chair	Meenu, Aysha, Manju Mehta, Dept. of FRM, COHS, CCSHAU, Hisar	Design Granted on 17/08/2023	Design No. 386669-001
11.	Moveable Milking Stool	Aysha, Meenu Manju Mehta, Dept. of Family Resource Management, COHS, CCSHAU, Hisar	Design Granted on 30/11/2023	Design No. 386668-01
12.	Bael fruit pulper Machine	Rinku Grover, Vijay K. Singh, D. K. Sharma Department of Processing & Food Engineering, COAE&T	Design Granted on 19/01/2024	Design No. 371933-001
13.	Automated Grader For Kinnow	Sachin, Vijay Kumar Singh, Sunil Kumar Department of Processing & Food Engineering, COAE& T	Design Granted on 20/02/2024	Design No. 373281-001
14.	Handicraft Chair	Aysha, Meenu Manju Mehta, Dept. of FRM, COCS, CCSHAU, Hisar	Design Granted on 05/04/2024	Design No. 386667-001
15.	Motile Cattle Feeding Trolley	Khushaboo Manju Mehta Dept. of Family Resource Management, COHS, CCSHAU, Hisar	Design Granted on 09/04/2024	Design No. 371981-001
16.	UV-C Treatment Chamber	Sushant Bhardwaj, Vijay Kumar Singh, Nitin Kumar,	Design Granted on 19/04/2024	Design No. 386670-001

		Sunil Kumar Department of PFE, COAE& T		
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**Trademark Granted: 01**

1.	Brand name 'CCSHAU' and 'Logo'	CCSHAU, Hisar	Trademark granted on 30.11.2016 and valid till 30.11.2026	Trademark No. 3423433
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