



## K. D. K. COLLEGE OF ENGINEERING, NAGPUR

### Record of Patents Granted

SR No.	Description	Date of filing	Date of Grant	Patentee	Department
1.	Concrete Pan Mixer Design No.483512-001	11/12/2025	10/02/2026	Dr.A.M.Badar Dr.A.V.Vanalkar D.G.Dange	Civil Engineering Mechanical Engineering
2.	Punching machine Design No.483513-001	11/12/2025	02/02/2026	Dr.A.M.Badar Dr.A.V.Vanalkar	Civil Engineering Mechanical Engineering
3.	Height Adjustable Movable Ladder Design No.468085-001	31/07/2025	10/12/2025	Dr.A.M.Badar Dr.A.V.Vanalkar Dr.P.G.Mehar	Civil Engineering Mechanical Engineering
4.	Flexible Spring Conveyor Design No.466882-001	23/07/2025	28/11/2025	Dr.A.M.Badar Dr.A.V.Vanalkar	Civil Engineering Mechanical Engineering
5.	Hydraulic Stirrup Making Machine, Design No.462640-001	18/06/2025	06/11/2025	Dr.A.M.Badar Dr.A.V.Vanalkar	Civil Engineering Mechanical Engineering
6.	Pesticide Spraying Mobile Robot of Agriculture Use Design No.462639-001	18/06/2025	21/10/2025	Dr.A.M.Badar Dr.A.V.Vanalkar	Civil Engineering Mechanical Engineering
7.	Meditation device with adaptive AI guidance Design No.448259-001	20/02/2025	03/06/2025	Dr.Kamal Chandwani	Computer Science Engineering
8.	AI based health care device for diagnosing abdominal diseases Design No.447710-001	11/02/2025	15/05/2025	Dr.P.D.Khandait, Dr.S.P.Khandait	Electronics & Telecommunication Information Technology
9.	Susceptibility measurement device Design No.440431-001	12/12/2024	06/03/2025	Dr.A.P.Fartode Dr.T.R.Shelke	Basic Science & Humanities
10.	On-site surface water analysis device Design No.440626-001	14/12/2024	03/02/2025	Dr.A.D. Shende	Civil Engineering

11.	Stroke Less Rotary Vane Engine App.No.201821046782 Patent No. 556267	11/12/2018	13/12/2024	Dr.A.V.Vanalkar	Mechanical Engineering
12.	Smart Groundwater Monitoring Device Design No.412251-001	01/04/2024	16/05/2024	Dr.A.D. Shende	Civil Engineering
13.	A Round Bamboo Stick Making Machine App.No.202221065364 Patent No. 536828	15/11/2022	03/05/2024	Dr.A.V.Vanalkar	Mechanical Engineering
14.	Soil Testing Device Design No.410752-001	16/03/2024	02/05/2024	Dr.H.V.Gorewar Prof.S.S.Ganorkar	Information Technology
15.	Electric Vehicle Temperature Detection Device. Design No.410591-001	15/03/2024	02/05/2024	Prof.A.M.Halmare Dr.D.M.Holey	Electrical Engineering
16.	AI based device for splicing optical fibres Design No.395400-001	19/09/2023	16/02/2024	Dr.Anup Bhange	Computer Science Engineering
17.	Power Quality Assessment of Space Vector based static synchronous series compensator (SSSC) Patent No.509541	24/03/2017	12/02/2024	Dr.D.M.Holey	Electrical Engineering
18.	Profile and Tools use for the Pottery Production App.No.201821012915 Patent No. 496685	05/04/2018	09/01/2024	Dr.C.C.Handa	Mechanical Engineering
19.	Human Powered Pedal Mechanism for Potter's Wheel App.No.201821012923 Patent No. 495957	05/04/2018	08/01/2024	Dr.C.C.Handa	Mechanical Engineering
20.	Machine Learning based human mental stress detection in daily life scenarios and alerting through internet of things Design No.6282624 (UK)	14/07/2022	12/09/2023	Dr.P.D.Khandait Dr.S.P.Khandait	Electronics & Telecommunication Information Technology

21.	Meditation Chair Design No.6282624 (UK)	16/05/2023	12/09/2023	Dr.P.D.Khandait	Electronics & Telecommunication
22.	Device to measure terminal fall velocity Design No.381401-001	13/03/2023	25/05/2023	Prof.M.N.Umare	Civil Engineering
23.	Baby Monitoring device Design No.380106-001	24/02/2023	16/05/2023	Prof.R.R.Kolte	Information Technology
24.	Robotic Device to check Groundwater Quality. Design No.373526-001	03/11/2022	02/02/2023	Dr.A.D. Shende, Prof.M.N.Umare	Civil Engineering
25.	Smart Dumbbell Design No.375338-001	09/12/2022	27/01/2023	Prof.A.M.Halmare	Electrical Engineering
26.	Hydraulic Stirrup Making Machine App. No.201721004651 Patent No. 390409	08/02/2017	25/02/2022	Dr.A.V.Vanalkar	Mechanical Engineering
27.	A Device for Identifying a disease and suggest ING through machine-learning based task scheduling and UID an effective remedy to treat a plant. Patent No.2021107088(AU)	25/08/2021	24/11/2021	Prof.S.S.Ganorkar Prof.H.V.Gorewar	Information Technology
28.	Stapler and Adhesive tape unit set Design No.348107-001	19/08/2021	12/10/2021	Dr.A.D. Shende	Civil Engineering
29.	Phosphors for Dosimetry of Ionizing radiations Patent No.345352	30/06/2016	27/08/2020	Dr.S.P.Wankhede	Basic Science & Humanities
30.	Phosphors for High Dose Dosimetry Patent No.338768	26/02/2018	18/06/2020	Dr.S.P.Wankhede	Basic Science & Humanities

**Dr. A. V. Vanalkar**

Dean(R&D), Professor and Head,  
Department of Mechanical Engineering,  
K.D.K.College of Engineering, Nagpur