

**Patent Details for Verification\_NIRF2022**

**Note: Provide your Institution's Patent details discipline-wise as applied for NIRF Ranking each in Separate List/Table (Only Published & Granted during 2018 - 2020 year-wise) strictly in this provided format, and clearly write/mention the Discipline & Institute ID above the List/Table as prescribed. Details of the Design, Trademarks, or Copyrights, and only Filed Patents must be avoided. Those details should not be entered or provided in the list below as those won't be considered for the ranking. Patent details must be submitted along with all the source proofs (attached) like screenshots, pdf, image file from databases like InPASS, WIPO, USPTO, Espacenet, Derwent Innovation, etc. and direct URL/Website links, etc.**

**Discipline Name applied for NIRF2022 Ranking: e.g. IR\_OVERALL / IR\_ENGINEERING / IR\_MEDICAL / IR\_PHARMACY / IR\_DENTAL**

**Institute ID: e.g. IR-X-X-XXXXXX**

**Patent Details with proofs (Attach screenshots, pdf, image file, etc.):**

Sl. No.	Patent Application No.	Status of Patent (Published)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date	Patent Publication Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of Application)	Here, attach source of proof i.e. URL/website links, etc.
1	2020102636	Granted	Alok Kumar Singh Kushwaha, Rohit Raja	SBDA-Secured Bra for Women Safety: Smart and Secured Bra for Women Safety Based on Deep Learning Algorithm	Alok Kumar Singh Kushwaha,	8/10/2020	11/26/2020	2020102636	Guru Ghasidas University	<a href="https://www.ipaustralia.gov.au/patents/understanding">https://www.ipaustralia.gov.au/patents/understanding</a>
2	2.02021E+11	Published	Alok Kumar Singh Kushwaha	THEFT VEHICLE DETECTION USING DIGITAL SIGNATURE BASED ECU AND IMAGE PROCESSING	Alok Kumar Singh Kushwaha	6/16/2020	7/10/2020	2.02021E+11	Guru Ghasidas University	<a href="http://ipindia.gov.in">http://ipindia.gov.in</a>
3	2.02021E+11	Published	Alok Kumar Singh Kushwaha, Rohit Raja	AN UNMANNED AERIAL VEHICLE FOR SURVEILLANCE	Alok Kumar Singh Kushwaha,	10/19/2020	11/13/2020	2.02021E+11	Guru Ghasidas University	<a href="http://ipindia.gov.in">http://ipindia.gov.in</a>
4	201941034109	Granted	Rohit Raja	An Apparatus and method for remotely monitoring an aquatic animal and classification thereof	Rohit Raja	8/23/2019	11/2/2020	350637	SIET Hyderabad	<a href="https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/Application">https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/Application</a>
5	202031044344	Published	Rohit Raja	A Novel Smart Carbonless Cooking Gasifier	Rohit Raja	10/12/2020	12/4/2020	2.02031E+11	Department, of Information Technology, School of, Engineering &	<a href="https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/Application">https://ipindiaservices.gov.in/PublicSearch/PublicationSearch/Application</a>
6	202041049838	Published	Dr.T.V.Arjunan	DEVICE FOR HEATING AIR USING SOLAR EVACUATED TUBE	Dr.T.V.Arjunan	11/16/2020	11/27/2020	202041049838	Guru Ghasidas Vishwavidyalaya, Bilaspur	<a href="https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicant">https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicant</a>