

**Patent Details for Verification\_NIRF2024**

**Note: Provide your Institution's Patent details (Only Utility Patents) Discipline-wise as applied for NIRF Ranking each in Separate List/Table (Only Published & Granted during 2020 – 2022 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 NIRF2024 Ranking: e.g. IR\_OVERALL / IR\_ENGINEERING / IR\_MEDICAL / IR\_PHARMACY / IR\_DENTAL/IR\_AGRICULTURE**

**Institute ID: e.g. C-00000 / U-00000**

**Provide below the Year-wise Count of Submitted Patent Data by the Institute (2020 to 2022) for NIRF2024 as applied in Discipline-specific:**

Published_2020	Published_2021	Published_2022	Granted_2020	Granted_2021	Granted_2022	Total Published (2020-2022)	Total Granted (2020-2022)			

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

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Patent Publication Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of Application)	Here, attach Source Proof Screenshots/URL/ Website Links, etc.
1	356585-001	Granted	Dr.S.Joe Patrick Gnanaraj	SOLAR WATER DISTILLATION SYSTEM	1.Dr.S.Joe Patrick Gnanaraj	5/1/2022	12/1/2022	356585-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625102	<a href="https://drive.google.com/file/d/170KyF7KCtgRvhZZ_xQNYJ6R-V-kChQTk/view?usp=sharing">https://drive.google.com/file/d/170KyF7KCtgRvhZZ_xQNYJ6R-V-kChQTk/view?usp=sharing</a>
2	356980-001	Granted	Dr.S.Joe Patrick Gnanaraj	SOLAR WATER DISTILLATION SYSTEM	1.Dr.S.Joe Patrick Gnanaraj	12/1/2022	19/01/2022	356980-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625102	<a href="https://drive.google.com/file/d/1CqR1sbMDi59ncDOrfVNX_frj0MnflpT2/view?usp=sharing">https://drive.google.com/file/d/1CqR1sbMDi59ncDOrfVNX_frj0MnflpT2/view?usp=sharing</a>
3	357115-001	Granted	Dr.S.Joe Patrick Gnanaraj	SOLAR WATER DISTILLATION SYSTEM	1.Dr.S.Joe Patrick Gnanaraj	10/4/2022	21/01/2022	357115-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625102	<a href="https://drive.google.com/file/d/1LG1bsDcRzBoRzMbWVjT7udMDQmcZ3e1e/view?usp=sharing">https://drive.google.com/file/d/1LG1bsDcRzBoRzMbWVjT7udMDQmcZ3e1e/view?usp=sharing</a>
4	357527-001	Granted	Dr.S.Joe Patrick Gnanaraj	SOLAR WATER DISTILLATION SYSTEM	1.Dr.S.Joe Patrick Gnanaraj	21/01/2022	28/01/2022	357527-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625102	<a href="https://drive.google.com/file/d/1WGV4jvLoz6CWeU2deUAgN8">https://drive.google.com/file/d/1WGV4jvLoz6CWeU2deUAgN8</a>

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5	358475-001	Granted	Dr.S.Joe Patrick Gnanaraj	SOLAR WATER DISTILLATION SYSTEM	1.Dr.S.Joe Patrick Gnanaraj	6/2/2022	13/2/2022	358475-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625102	<a href="https://drive.google.com/file/d/1uXtvdKghyLjbp_Ec17CUTt77ERSTlcrx/view?usp=sharing">https://drive.google.com/file/d/1uXtvdKghyLjbp_Ec17CUTt77ERSTlcrx/view?usp=sharing</a>
6	358476-001	Granted	Dr.S.Joe Patrick Gnanaraj	Solar Cellphone Cover	1.Dr.S.Joe Patrick Gnanaraj	6/2/2022	13/2/2022	358476-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625102	<a href="https://drive.google.com/file/d/1rztYc47evBavdgfoZFtG-Kp_kEN5cy8B/view?usp=sharing">https://drive.google.com/file/d/1rztYc47evBavdgfoZFtG-Kp_kEN5cy8B/view?usp=sharing</a>
77	364104-001	Granted	Dr.S.Joe Patrick Gnanaraj	Solar Panel Mobile Cover	1.Dr.S.Joe Patrick Gnanaraj	5/5/2022	12/5/2022	364104-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625102	<a href="https://drive.google.com/file/d/1o8P11t8c9dDF1xm1AsKx5u1rvCvVJkD8/view?usp=sharing">https://drive.google.com/file/d/1o8P11t8c9dDF1xm1AsKx5u1rvCvVJkD8/view?usp=sharing</a>
8	365849-001	Granted	Dr.S.Joe Patrick Gnanaraj	Compact Distillation System	1.Dr.S.Joe Patrick Gnanaraj	3/6/2022	10/6/2022	365849-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625102	<a href="https://drive.google.com/file/d/1JOUOZYdkfehmVlQNOqgLaRP5LrPTtES/view?usp=sharing">https://drive.google.com/file/d/1JOUOZYdkfehmVlQNOqgLaRP5LrPTtES/view?usp=sharing</a>
9	366188-001	Granted	Dr.S.Joe Patrick Gnanaraj	SMART QUADCOPTER	1.Dr.S.Joe Patrick Gnanaraj	9/6/2022	16/6/2022	366188-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625102	<a href="https://drive.google.com/file/d/1sNu24vv6lt_XbPvi2QKiZfH9NhNTN6ig/view?usp=sharing">https://drive.google.com/file/d/1sNu24vv6lt_XbPvi2QKiZfH9NhNTN6ig/view?usp=sharing</a>
10	368494-001	Granted	Dr.S.Joe Patrick Gnanaraj	SOLAR CHARGING STATION FOR PHONES	1.Dr.S.Joe Patrick Gnanaraj	22/07/2022	29/07/2022	368494-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625102	<a href="https://drive.google.com/file/d/1QPjFhX0hF_gslQPW_v0_UE37pNcLW2JC/view?usp=sharing">https://drive.google.com/file/d/1QPjFhX0hF_gslQPW_v0_UE37pNcLW2JC/view?usp=sharing</a>
11	369994-001	Granted	Dr.S.Joe Patrick Gnanaraj	FRUIT JUICE PLANT	1.Dr.S.Joe Patrick Gnanaraj	20/08/2022	27/08/2022	369994-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625102	<a href="https://drive.google.com/file/d/1LU_Lltca8Fgq9FPXfgQn-q4b1ZO9zXHs/view?usp=sharing">https://drive.google.com/file/d/1LU_Lltca8Fgq9FPXfgQn-q4b1ZO9zXHs/view?usp=sharing</a>
12	370745-001	Granted	Dr.S.Joe Patrick Gnanaraj	FRUIT PROCESSING MACHINE	1.Dr.S.Joe Patrick Gnanaraj	5/9/2022	12/9/2022	370745-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625102	<a href="https://drive.google.com/file/d/14yPoPvULyX1AQqDYINXc6XgfmX0leC-1/view?usp=sharing">https://drive.google.com/file/d/14yPoPvULyX1AQqDYINXc6XgfmX0leC-1/view?usp=sharing</a>
13	20224106105 1 A	Published	Ms. Electa Alice Jayarani. A	DRONE SEED REPLANTS TREES TO KEEP FORESTS HEALTHY	Ms. Electa Alice Jayarani. A	27/10/2022	2/12/2022	20224106105 1 A	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625174	<a href="https://drive.google.com/file/d/1vO-Cwnfv-QEDNYLkf-DuIICNmF8Yu7y1/view?usp=sharing">https://drive.google.com/file/d/1vO-Cwnfv-QEDNYLkf-DuIICNmF8Yu7y1/view?usp=sharing</a>
14	20224106105 0 A	Published	Mrs Thangam C	ADrone - Enabled Approach For Gas Leak Detection Using Optical Flow Analysis	Mrs Thangam C	27/10/2022	2/12/2022	20224106105 0 A	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625175	<a href="https://drive.google.com/file/d/1ZuxDDxhgU_alCLfgt_cuaOPOVCLGdEPL/view?usp=sharing">https://drive.google.com/file/d/1ZuxDDxhgU_alCLfgt_cuaOPOVCLGdEPL/view?usp=sharing</a>
15	20224106361 4 A	Published	Dr. C. SUBHA RAJ	MECHANISM RESEARCH PROGRESS OF MIRINA IN LARYNGEAL CARCINOMA	Dr. C. SUBHA RAJ	8/11/2022	2/12/2022	20224106361 4 A	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625176	<a href="https://drive.google.com/file/d/1-ZEmwCcwwNE7bSvUrwuqA7fEdCJtylL/view?usp=sharing">https://drive.google.com/file/d/1-ZEmwCcwwNE7bSvUrwuqA7fEdCJtylL/view?usp=sharing</a>

16	20224106552 9A	Published	S.EBANEZA R PRAVIN	ENERGY EFFICIENCY MEASURE IN ELECTRIC MOTORS FOR WATER SUPPLY SYSTEMS	S.EBANEZAR PRAVIN	16/11/2022	30/12/2022	20224106552 9A	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625180	<a href="https://drive.google.com/file/d/19sZDOwp9CvTG4LNCGRcQI2L87vk6Zcn/view?usp=sharing">https://drive.google.com/file/d/19sZDOwp9CvTG4LNCGRcQI2L87vk6Zcn/view?usp=sharing</a>
17	20224106551 8A	Published	Mrs.CORDE LIA SUMATHY	Techniques of Controlled Flow of Electricity	Mrs.CORDELIA SUMATHY	15/11/2022	30/12/2022	20224106551 8A	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625181	<a href="https://drive.google.com/file/d/1s5_vegRDMF74LUo-aMYn7TOY_5FTPPeru/view?usp=sharing">https://drive.google.com/file/d/1s5_vegRDMF74LUo-aMYn7TOY_5FTPPeru/view?usp=sharing</a>
18	20224107329 2A	Published	Mr.Maria antony Sebastin Vimalan	Improving the thermal uniformity of walls made of cellular concrete products through the use of polyurethane adhesive in masonry	Mr.Maria antony Sebastin Vimalan	17/12/2022	30/12/2022	20224107329 2A	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625182	<a href="https://drive.google.com/file/d/1XoIqlonAZdhSnYSBcSxaW5uP74YJQpNl/view?usp=sharing">https://drive.google.com/file/d/1XoIqlonAZdhSnYSBcSxaW5uP74YJQpNl/view?usp=sharing</a>
19	20224100614 6A	Published	Dr.S.Ramesh	IoT and ML based Plant Disease detection and classification using Image-Processing	Dr.S.Ramesh	4/2/2022	11/2/2022	20224100614 6A	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625183	<a href="https://drive.google.com/file/d/1-BkERVaiPr5wEiXpolXwL5dgz aEynzRr/view?usp=sharing">https://drive.google.com/file/d/1-BkERVaiPr5wEiXpolXwL5dgz aEynzRr/view?usp=sharing</a>
20	20224102547 4A	Published	Mrs.Sathya	AN INVESTIGATION ON THE IMPACT RESISTANCE OF STEEL FIBRE REINFORCED BLENDED CEMENT CONCRETE	Mrs.Sathya	30/04/2022	13/05/2022	20224102547 4A	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625184	<a href="https://drive.google.com/file/d/1V_dBUn6fZmvcQLgd_CtOupF9hEKZm7wd/view?usp=sharing">https://drive.google.com/file/d/1V_dBUn6fZmvcQLgd_CtOupF9hEKZm7wd/view?usp=sharing</a>
21	367709-001	Published	Dr. Joe Patrick Gnanaraj S	Design Patent	Dr. Joe Patrick Gnanaraj S	8/7/2022	15/07/2022	367709-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625188	<a href="https://drive.google.com/file/d/1_ERd-05pa5f7aWneezQdoqv7gMcPgWa/view?usp=sharing">https://drive.google.com/file/d/1_ERd-05pa5f7aWneezQdoqv7gMcPgWa/view?usp=sharing</a>
22	367708-001	Published	Dr. JOE PATRICK GNANARAJ S	Design Patent	Dr. JOE PATRICK GNANARAJ S	8/7/2022	15/07/2022	367708-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625190	<a href="https://drive.google.com/file/d/1RQZ11eRiXnVkiUq38SL_nfVebZocZvYN/view?usp=sharing">https://drive.google.com/file/d/1RQZ11eRiXnVkiUq38SL_nfVebZocZvYN/view?usp=sharing</a>
23	372331-001	Published	M. G. AYYAPPA SRINIVASA N	HEALTH MONITORING SYSTEM	M. G. AYYAPPA SRINIVASAN	10/10/2022	6/1/2023	372331-001	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625191	<a href="https://drive.google.com/file/d/1rSSQUG_uaGD_nl0tVaEmGMnKW5Ib3wTs/view?usp=sharing">https://drive.google.com/file/d/1rSSQUG_uaGD_nl0tVaEmGMnKW5Ib3wTs/view?usp=sharing</a>

24	20224107687 6 A	Published	P.MARIA ANTONY SEBASTIN VIMALAN	BEHAVIOUR OF STEEL PLATES STRENGTHENED DEEP BEAMS WITH DUCT OPENINGS	P.MARIA ANTONY SEBASTIN VIMALAN	29/12/2022	13/01/2023	20224107687 6 A	St.Mother Theresa engineering College, Vagaikulam, Thoothukuydi-625194	<a href="https://drive.google.com/file/d/1zbc22IS8yeK8ku8n17laiVah3cmi0Jx/view?usp=sharing">https://drive.google.com/file/d/1zbc22IS8yeK8ku8n17laiVah3cmi0Jx/view?usp=sharing</a>
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