पेटेंट कार्यालय
शासकीय जर्नल

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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

30th May, 2025

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(54) Title of the invention : MULTI-FUNCTIONAL MODULAR DESK FOR UPPER EXTREMITY REHABILITATION THROUGH SIMULATED DAILY ACTIVITIES

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Filing Date :NA

(71)**Name of Applicant :**
1)Sri Devaraj Urs Academy of Higher Education and Research
Address of Applicant :Sri Devaraj Urs Academy of Higher Education and Research, Kolar – 563101, Karnataka, India. Kolar ---------- ----------
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(72)**Name of Inventor :**
1)Naveen Kumar I
Address of Applicant :S/o. Mr. Inbaraj A, Assistant Professor, No. 1, J block, Staff Quarters, Sri Devaraj Urs Academy of Higher Education and Research, Tamaka, Kolar - 563103, Karnataka, India. Kolar ---------- ----------

(57) Abstract :
ABSTRACT MULTI-FUNCTIONAL MODULAR DESK FOR UPPER EXTREMITY REHABILITATION THROUGH SIMULATED DAILY ACTIVITIES The present invention relates to a multi-functional, modular rehabilitation device designed for upper extremity therapy, particularly suitable for individuals recovering from neurological or orthopedic conditions. The device comprises a customizable training desk incorporating a variety of activity modules that simulate culturally and functionally relevant daily tasks such as cooking, cleaning, personal grooming, and utility operations. The modular design enables both unilateral and bilateral task performance, while integrated ergonomic features, including adjustable height and resistance mechanisms, facilitate progressive rehabilitation. Tailored for Indian household contexts, the device allows for home or clinical use, supporting diverse user needs through task-specific, real-world simulations that enhance motor coordination, strength, and functional independence. The compact, space-efficient design ensures accessibility and usability across a range of environments and patient populations.

No. of Pages : 14 No. of Claims : 8

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Ministry of Commerce & Industry,
Government of India

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GEOGRAPHICAL INDICATIONS

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Application Details	
APPLICATION NUMBER	202541044053
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/05/2025
APPLICANT NAME	**Sri Devaraj Urs Academy of Higher Education and Research**
TITLE OF INVENTION	MULTI-FUNCTIONAL MODULAR DESK FOR UPPER EXTREMITY REHABILITATION THROUGH SIMULATED DAILY ACTIVITIES
FIELD OF INVENTION	MECHANICAL ENGINEERING
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/05/2025

FORM 1 THE PATENTS ACT, 1970 (39 of 1970) & THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT [See sections 7,54 & 135 and rule 20(1)]	(FOR OFFICE USE ONLY) Application No.: ..... Filing Date: ..... Amount of Fee Paid: ..... CBR No.: ..... Signature: .....

1. APPLICANT(S):

Sr.No.	Name	Nationality	Address	Country	State	Distict	City
1	Sri Devaraj Urs Academy of Higher Education and Research	India	Sri Devaraj Urs Academy of Higher Education and Research, Kolar – 563101, Karnataka, India.	India	Karnataka	Kolar	Kolar

2. INVENTOR(S):

Sr.No.	Name	Nationality	Address	Country	State	Distict	City
1	Naveen Kumar I	India	S/o. Mr. Inbaraj A, Assistant Professor, No. 1, J block, Staff Quarters, Sri Devaraj Urs Academy of Higher Education and Research, Tamaka, Kolar - 563103, Karnataka, India.	India	Karnataka	Kolar	Kolar

3. TITLE OF THE INVENTION: MULTI-FUNCTIONAL MODULAR DESK FOR UPPER EXTREMITY REHABILITATION THROUGH SIMULATED DAILY ACTIVITIES

4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / AUTHORISED PATENT AGENT IN INDIA:

Allinnov Research and Development Private Limited, #360A, First Floor, Building 1, Senthur Murugan Kovil Street, Opp. SM Mahal, Oldpet, Krishnagiri - 635001, Tamil Nadu, India.

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5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY:

Sr.No.	Country	Application Number	Filing Date	Name of the Applicant	Tilte of the Invention

6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION:

International Application Number	International Filing Date as Allotted by the Receiving Office
PCT//	

7. PARTICULARS FOR FILING DIVISIONAL APPLICATION

Original (first) Application Number	Date of Filing of Original (first) Application

8. PARTICULARS FOR FILING PATENT OF ADDITION:

Main Application / Patent Number:	Date of Filing of Main Application

9. DECLARATIONS:

(i) Declaration by the inventor(s)

I/We ,Naveen Kumar I, is/are the true & first inventor(s) for this invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) of the inventor(s): .....

(c) Name(s): Naveen Kumar I

(ii) Declaration by the applicant(s) in the convention country

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) : .....

(c) Name(s) of the singnatory: Sri Devaraj Urs Academy of Higher Education and Research

(iii) Declaration by the applicant(s)

- **The Complete specification relating to the invention is filed with this application.**
- **I am/We are, in the possession of the above mentioned invention.**
- **There is no lawful ground of objection to the grant of the Patent to me/us.**
- **I am/We are, the assignee or legal representative to true first inventors.**

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

Sr.	Document Description	FileName

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters stated hering are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this(Final Payment Date): ----------

Signature: .....

Name: Madhu Smita

To The Controller of Patents

The Patent office at CHENNAI

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FORM 2

THE PATENTS ACT, 1970

(39 of 1970)

&

The Patent Rules, 2003

COMPLETE SPECIFICATION

(See sections 100 & rule 103)

1. TITLE OF THE INVENTION

MULTI-FUNCTIONAL MODULAR DESK FOR UPPER EXTREMITY REHABILITATION THROUGH SIMULATED DAILY ACTIVITIES

2. APPLICANTS (S)

NAME(S)	NATIONALITY	ADDRESS
Sri Devaraj Urs Academy of Higher Education and Research	Indian	Sri Devaraj Urs Academy of Higher Education and Research, Kolar – 563101, Karnataka, India.

3. PREAMBLE TO THE DESCRIPTION

COMPLETE SPECIFICATION

The following description particularly describes the invention and the method in which it has to be performed.

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MULTI-FUNCTIONAL MODULAR DESK FOR UPPER EXTREMITY REHABILITATION THROUGH SIMULATED DAILY ACTIVITIES

TECHNICAL FIELD

[0001]. The invention relates to the field of medical and rehabilitation devices and specifically to a multi-functional modular desk for upper extremity rehabilitation through simulated daily activities.

BACKGROUND

[0002]. Upper extremity rehabilitation plays a critical role in the functional recovery of individuals affected by neurological conditions such as stroke, traumatic brain injury, spinal cord injury, as well as orthopedic injuries and post-surgical recovery. A significant component of such rehabilitation is the restoration of the ability to perform activities of daily living (ADLs), which directly impacts an individual's independence and quality of life.

[0003]. Conventional rehabilitation methods often involve generic tools such as resistance bands, pulley systems, or static exercise boards. While these tools provide basic strength and mobility training, they typically lack relevance to real-life tasks. As modern therapeutic approaches increasingly emphasize task-oriented and function-specific interventions, there remains a significant gap between available rehabilitation devices and the practical needs of patients.

[0004]. Moreover, existing equipment frequently fails to accommodate the diverse and culturally specific daily tasks encountered by patients in different regions. In the Indian context, many daily activities—such as handling traditional utensils, operating mechanical door locks, managing cooking tasks using gas stoves and pressure cookers, or carrying tiffin boxes—are not reflected in standard rehabilitation tools. This lack of contextual relevance

often results in lower patient engagement, limited transfer of skills to real-world settings, and slower recovery.

[0005]. Additionally, many rehabilitation devices are either technologically complex or space-consuming, making them unsuitable for use in small homes or resource-limited clinical settings, especially in rural areas. There exists a need for a simple, modular, and culturally appropriate rehabilitation solution that not only replicates meaningful daily activities but also supports scalable difficulty and bilateral coordination.

[0006]. The present invention addresses these unmet needs by introducing a multi-functional upper extremity training desk that integrates task-specific modules reflecting culturally relevant ADLs. Designed to be ergonomic, adjustable, and modular, the device facilitates personalized rehabilitation programs that enhance motor control, strength, and functional use of the upper limbs in an accessible, affordable, and space-efficient format.

SUMMARY

[0007]. In one aspect of the present disclosure, a multi-functional upper extremity training desk comprising a modular framework configured to support interchangeable task modules said modules being adapted to simulate daily life activities including cooking, cleaning, personal care, and utility operations an ergonomic design including a height-adjustable structure and customizable resistance mechanisms wherein the desk facilitates unilateral and bilateral upper limb rehabilitation by enabling task-specific, functional movement training.

[0008]. In some aspects of the present disclosure, the task modules are configured to simulate culturally relevant activities in Indian households, including grinding spices, using traditional utensils, and operating mechanical door locks.

[0009]. In some aspects of the present disclosure, the customizable resistance mechanisms include elastic bands, spring-based systems, or weight attachments to allow progressive difficulty in task execution.

[0010]. In some aspects of the present disclosure, the task modules include bilateral coordination tasks such as folding clothes, opening jars, or tying shoelaces, to promote symmetrical motor function.

[0011]. In some aspects of the present disclosure, the cooking module comprises simulated tools for stirring, cutting, and kneading, configured to promote fine motor skills and upper limb strength.

[0012]. In some aspects of the present disclosure, the personal care module includes grooming tools such as simulated toothbrushes, combs, or shavers for rehabilitation of self-care functions.

[0013]. In some aspects of the present disclosure, the modular attachments are detachable and compactly storable, enabling space-efficient use in clinical and home-based environments.

[0014]. In some aspects of the present disclosure, a manual or electronic tracking mechanism to monitor user performance based on task repetition, time, and resistance progression.

BRIEF DESCRIPTION OF DRAWINGS

[0015]. The above and still further features and advantages of aspects of the present disclosure become apparent upon consideration of the following detailed description of aspects thereof, especially when taken in conjunction with the accompanying drawings, and wherein:

[0016]. Figure 1 is a diagrammatical representation, in accordance with an aspect of the present disclosure;

DETAILED DESCRIPTION

[0017]. The following description provides specific details of certain aspects of the disclosure illustrated in the drawings to provide a thorough understanding of those aspects. It should be recognized, however, that the present disclosure can be reflected in additional aspects and the disclosure may be practiced without some of the details in the following description.

[0018]. The various aspects including the example aspects are now described more fully with reference to the accompanying drawings, in which the various aspects of the disclosure are shown. The disclosure may, however, be embodied in different forms and should not be construed as limited to the aspects set forth herein. Rather, these aspects are provided so that this disclosure is thorough and complete, and fully conveys the scope of the disclosure to those skilled in the art. In the drawings, the sizes of components may be exaggerated for clarity.

[0019]. It is understood that when an element or layer is referred to as being "on," "connected to," or "coupled to" another element or layer, it can be directly on, connected to, or coupled to the other element or layer or intervening elements or layers that may be present. As used herein, the term "and/or" includes any and all combinations of one or more of the associated listed items.

[0020]. The subject matter of example aspects, as disclosed herein, is described with specificity to meet statutory requirements. However, the description itself is not intended to limit the scope of this patent. Rather, the inventor/inventors have contemplated that the claimed subject matter might also be embodied in other ways, to include different features or combinations of features similar to the ones described in this document, in conjunction with other technologies.

[0021]. The present invention relates to a multi-functional, modular rehabilitation device designed for upper extremity therapy, particularly

suitable for individuals recovering from neurological or orthopedic conditions. The device comprises a customizable training desk incorporating a variety of activity modules that simulate culturally and functionally relevant daily tasks such as cooking, cleaning, personal grooming, and utility operations. The modular design enables both unilateral and bilateral task performance, while integrated ergonomic features, including adjustable height and resistance mechanisms, facilitate progressive rehabilitation. Tailored for Indian household contexts, the device allows for home or clinical use, supporting diverse user needs through task-specific, real-world simulations that enhance motor coordination, strength, and functional independence. The compact, space-efficient design ensures accessibility and usability across a range of environments and patient populations.

[0022]. The present invention provides a multi-functional, modular upper extremity training desk specifically designed for rehabilitation purposes. The device facilitates recovery in individuals with impaired upper limb function due to neurological conditions such as stroke, traumatic brain injury, or spinal cord injury, as well as orthopedic injuries and post-operative recovery. The training desk simulates a wide range of daily activities by incorporating a series of interchangeable task modules, enabling patients to practice task-specific, functional movements in a controlled and progressive manner.

[0023]. The desk is composed of a stable and ergonomically designed base structure, which is height-adjustable to accommodate users in both seated and standing positions, including wheelchair users. Integrated ergonomic features such as padded wrist and elbow rests ensure patient comfort and safety during use. The primary structure supports various activity modules that are detachable, interchangeable, and customizable based on the stage of rehabilitation and the specific needs of the user.

[0024]. The modular activity units include, but are not limited to, cooking-related tasks such as stirring, cutting, and kneading; cleaning tasks such as

wiping, scrubbing, and squeezing; personal care simulations such as brushing teeth, combing hair, and shaving; and utility operations including the manipulation of taps, switches, and door locks. These modules are designed to replicate culturally relevant activities found in Indian households, enhancing the relevance and effectiveness of therapy by reflecting real-world functional needs.

[0025]. The device further supports bilateral coordination through modules that require the simultaneous use of both hands, such as folding clothes, tying knots, or opening containers. Adjustable resistance mechanisms, including elastic bands and weight-based attachments, are integrated into the task modules to allow therapists or users to vary the intensity of exercises in accordance with individual recovery goals. These resistance components help to build strength, improve range of motion, and support muscular endurance.

[0026]. In addition to its functional versatility, the desk is compact, lightweight, and made from durable materials suitable for both clinical and home settings. The modular attachments can be easily assembled, disassembled, and stored, making the device space-efficient and portable. Manual tracking of rehabilitation progress is enabled through measurements such as task completion time, number of repetitions, and progressive reduction in assistance or resistance.

[0027]. This invention not only bridges the gap between conventional rehabilitation tools and real-life functional training but also addresses the unique needs of culturally diverse user populations. The inclusion of region-specific tasks and ergonomic adaptability makes it a practical and effective solution for upper extremity rehabilitation across various environments and patient demographics.

[0028]. The operation of the training desk is user-centric and designed to be intuitive, allowing patients or caregivers to easily attach and modify modules based on the user's therapeutic goals. Each task module is connected to the

main surface using standardized mounting slots or fixtures that ensure stability during use while permitting rapid interchangeability. This facilitates seamless transitions between different tasks during a single therapy session, thus maximizing therapeutic efficiency and engagement.

[0029]. The cooking module, for example, includes a mock stove area with rotatable knobs, stirring tools with variable resistance, and surfaces for simulated chopping and kneading. These tools not only promote fine motor skills and grip strength but also replicate real-world scenarios that patients encounter daily. Similarly, the cleaning module incorporates sponges, mop handles, and wiping surfaces mounted at various angles to train shoulder, elbow, and wrist motion in dynamic patterns.

[0030]. The grooming or personal care module includes toothbrush and comb handles, shaver grips, and small-tool attachments for tasks like nail filing, designed to improve dexterity and functional range of the fingers and wrists. In the utility module, common household actions such as turning taps, locking/unlocking doors, and flicking light switches are simulated using mechanical fixtures that mimic real-life resistance and feedback. This promotes familiarity and confidence in re-engaging with home environments post-rehabilitation.

[0031]. In terms of adjustability, the height-adjustable base can be operated manually or through a mechanical lever to adapt to users of various heights and mobility levels. Resistance components—such as elastic bands, spring-loaded elements, or small weight holders—can be fitted to specific tasks to introduce progressive overload, an essential aspect of neuromuscular recovery. These resistance levels can be modified incrementally, ensuring safe and measurable progression.

[0032]. Another critical advantage of the desk is its ability to support bilateral rehabilitation, which is often crucial for patients with hemiparesis or bilateral weakness. Modules such as folding, transferring objects between

compartments, or opening tightly closed containers require coordinated input from both arms, thereby promoting symmetrical motor function and hand dominance retraining.

[0033]. To accommodate different recovery stages, each task module is scalable in difficulty. For example, lighter tools can be replaced with heavier versions, or modules can be repositioned to higher or more challenging locations on the desk surface. The design ensures that therapists or caregivers can fine-tune each activity without requiring advanced technical skills.

[0034]. The invention is further characterized by its simplicity and cost-effectiveness. It does not rely on electronic or motorized components, which often increase cost, maintenance requirements, and power dependency. As a result, the device is ideally suited for use in resource-limited environments such as rural rehabilitation centers, small clinics, or home-based therapy settings. Its portability and compact storage configuration ensure it can be transported or relocated with minimal effort.

[0035]. The Multi-Functional Upper Extremity Training Desk disclosed herein presents a novel, practical, and culturally relevant approach to upper limb rehabilitation. By integrating modular, task-specific components into an ergonomic and adjustable framework, the invention bridges the gap between traditional clinical exercises and the functional requirements of daily life—particularly within the Indian context.

[0036]. Its user-friendly design accommodates a wide range of therapeutic needs, enabling both unilateral and bilateral training, and supporting progressive rehabilitation through adjustable resistance and task complexity. The inclusion of culturally familiar daily tasks enhances patient engagement and improves the transferability of learned movements to real-world settings.

[0037]. The device’s portability, cost-effectiveness, and ease of customization make it highly suitable for use in clinical centers, community-based therapy units, and home environments alike. As such, the present invention provides a

versatile, inclusive, and accessible solution that promotes faster recovery, greater independence, and improved quality of life for individuals with upper extremity impairments.

[0038]. In summary, the Multi-Functional Upper Extremity Training Desk offers a comprehensive, user-adaptable, and culturally contextual rehabilitation solution. It effectively combines therapeutic rigor with practical utility, allowing patients to rebuild critical upper limb functions through tasks that are familiar, motivating, and directly transferable to everyday life. Its modularity, ergonomic adaptability, and affordability make it a novel and valuable tool in modern rehabilitation practice.

DIGITALLY SIGNED#####
MADHU SMITA (IN/PA-3454) and
PREM CHARLES I (IN/PA – 3311)
Registered Patent Agents on behalf of the Applicant(s)

Claims:

I/We Claim:

1. A multi-functional upper extremity training desk comprising:

    a) a modular framework configured to support interchangeable task modules;

    b) said modules being adapted to simulate daily life activities including cooking, cleaning, personal care, and utility operations;

    c) an ergonomic design including a height-adjustable structure and customizable resistance mechanisms;

    d) wherein the desk facilitates unilateral and bilateral upper limb rehabilitation by enabling task-specific, functional movement training.

2. The desk as claimed in claim 1, wherein the task modules are configured to simulate culturally relevant activities in Indian households, including grinding spices, using traditional utensils, and operating mechanical door locks.
3. The desk as claimed in claim 1, wherein the customizable resistance mechanisms include elastic bands, spring-based systems, or weight attachments to allow progressive difficulty in task execution.
4. The desk as claimed in claim 1, wherein the task modules include bilateral coordination tasks such as folding clothes, opening jars, or tying shoelaces, to promote symmetrical motor function.

5. The desk as claimed in claim 1, wherein the cooking module comprises simulated tools for stirring, cutting, and kneading, configured to promote fine motor skills and upper limb strength.
6. The desk as claimed in claim 1, wherein the personal care module includes grooming tools such as simulated toothbrushes, combs, or shavers for rehabilitation of self-care functions.
7. The desk as claimed in claim 1, wherein the modular attachments are detachable and compactly storable, enabling space-efficient use in clinical and home-based environments.
8. The desk as claimed in claim 1, further comprising a manual or electronic tracking mechanism to monitor user performance based on task repetition, time, and resistance progression.

Dated this **May 06, 2025**

DIGITALLY SIGNED#####
MADHU SMITA (IN/PA-3454) and
PREM CHARLES I (IN/PA – 3311)
Registered Patent Agents on behalf of the Applicant(s)

ABSTRACT

MULTI-FUNCTIONAL MODULAR DESK FOR UPPER EXTREMITY REHABILITATION THROUGH SIMULATED DAILY ACTIVITIES

The present invention relates to a multi-functional, modular rehabilitation device designed for upper extremity therapy, particularly suitable for individuals recovering from neurological or orthopedic conditions. The device comprises a customizable training desk incorporating a variety of activity modules that simulate culturally and functionally relevant daily tasks such as cooking, cleaning, personal grooming, and utility operations. The modular design enables both unilateral and bilateral task performance, while integrated ergonomic features, including adjustable height and resistance mechanisms, facilitate progressive rehabilitation. Tailored for Indian household contexts, the device allows for home or clinical use, supporting diverse user needs through task-specific, real-world simulations that enhance motor coordination, strength, and functional independence. The compact, space-efficient design ensures accessibility and usability across a range of environments and patient populations.

DIGITALLY SIGNED#####
MADHU SMITA (IN/PA-3454) and
PREM CHARLES I (IN/PA – 3311)
Registered Patent Agents on behalf of the Applicant(s)

Applicant(s): Sri Devaraj Urs Academy of Higher Education and Research.

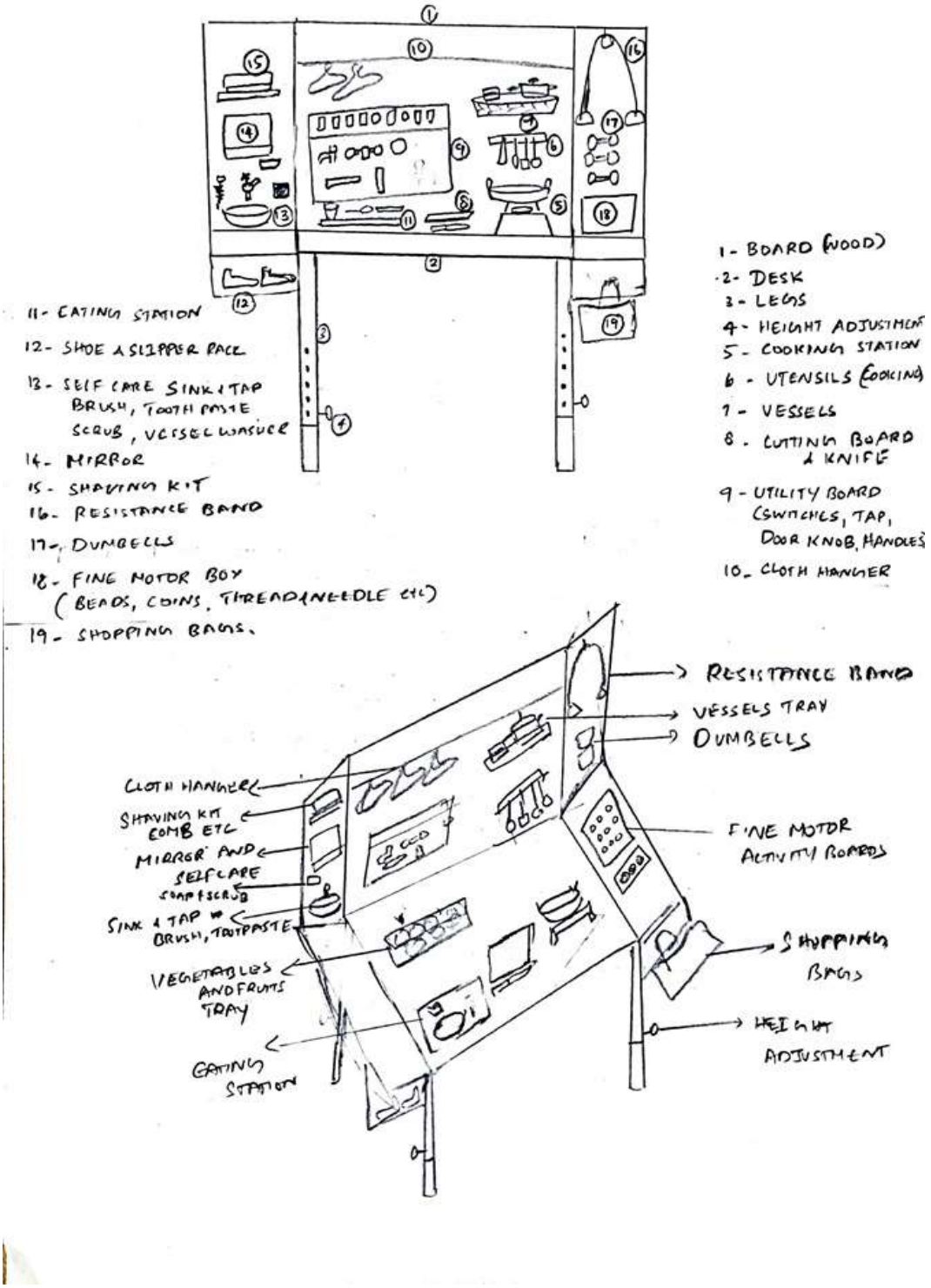

Figure 1

DIGITALLY SIGNED#####
MADHU SMITA (IN/PA-3454) and
PREM CHARLES I (IN/PA – 3311)
Registered Patent Agents on behalf of the Applicant(s)

FORM 3

THE PATENT ACT, 1970
(39 of 1970)
AND
THE PATENTS RULES, 2003
STATEMENT AND UNDERTAKING UNDER SECTION 8
[(See section 8; Rule 12)]

1. Name of the applicant(s).	I/We **Sri Devaraj Urs Academy of Higher Education and Research, Sri Devaraj Urs Academy of Higher Education and Research, Kolar – 563101, Karnataka, India.,** Applicant Type **- EI** , hereby declare:
2. Name, address and nationality of the joint applicant.	(i) that I/We who have made the application for patent number **202541044053** in India, dated **06/05/2025 21:26:04**., alone / jointly with ....., (ii) that I/We have not made any application for the same/substantially the same invention outside India Or (iii) that I/We have made for the same/ substantially same invention, application(s) for patent in the other countries, the particulars of which are given below:

Name of the country	Date of application	Application No.	Status of the application	Date of publication	Date of disposal
NA	NA	NA	NA	NA	NA

3. Name and address of the assignee	(i) that the rights in the application(s) filed in India has/have been assigned to **None. Rights remained with the Applicant.**. (ii) that I/We undertake that upto the date of grant of the patent by the Controller, I/We would keep him informed in writing regarding the details of corresponding applications for patents filed outside India in accordance with the provisions contained in section 8 and rule 12. Dated this **7th** day of **May 2025**
4. To be signed by the applicant or his authorized registered patent agent.	Signature(s) .....
5. Name of the natural person who has signed.	.....
	To The Controller of Patents, The Patent Office, at **New Delhi**
Note: ” Strike out whichever is not applicable; ”	

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FORM 5

THE PATENT ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003

DECLARATION AS TO INVENTORSHIP

[See section 10(6) and rule 13(6)]

1. NAME OF APPLICANT(S) **Sri Devaraj Urs Academy of Higher Education and Research**,

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of my/our application numbered **202541044053** dated **06/05/2025** is/are

2. INVENTOR(S)

Name	Country	Nationality	Address
Naveen Kumar I	India	India	S/o. Mr. Inbaraj A, Assistant Professor, No. 1, J block, Staff Quarters, Sri Devaraj Urs Academy of Higher Education and Research, Tamaka, Kolar - 563103, Karnataka, India.

Dated this. **07/05/2025**Day of **2025**

Signature

Name of the signatory

3. DECLATRATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT(S) IN THE CONVENTION COUNTRY:--

We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).

Dated this. **07/05/2025**.Day of **2025**

Signature

Name of the signatory

4. STATEMENT (to be signed by the additional inventor(s) not mentioned in the application form)

I/We assent to the invention referred to in the above declaration, being included in the complete specification filed in pursuance of the stated application.

Dated this(Final Payment Date):----------

Signature

Name of the signatory

This form is electronically generated.

FORM 28
THE PATENT ACT, 1970
(39 OF 1970)
&
The Patents Rules, 2003
TO BE SUBMITTED BY SMALL ENTITY /STARTUP/EDUCATIONAL INSTITUTION
[See rules 2 (fa), 2(fb), 2(ca) and 7]

We, **SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH,** an **INDIAN EDUCATIONAL INSTITUTION** recognised by **UNIVERSITY GRANTS COMMISSION,** the applicant in respect of the patent application no **2025410**_____ hereby declare that we are an educational institution in accordance with rule 2(ca) and submit the following document(s) as proof:

i) Notification of May 25th, 2007 issued by UGC and MHRD.

The information provided herein is correct to the best of our knowledge and belief.

Dated this 6th Day of May, 2025

SIGNATURE:

DIGITALLY SIGNED#####
MADHU SMITA (IN/PA-3454) and
PREM CHARLES I (IN/PA – 3311)
Registered Patent Agents on behalf of the Applicant(s)

To,

The Controller of Patents,

The Patent Office, at Chennai

UNIVESRITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110002

विश्वविद्यालय अनुदान आयोग
बहादुर शाह जफर मार्ग
नई दिल्ली – 110 002

No.F.6-24/2006 (CPP-I) June, 2007

20 JUN 2007

NOTIFICATION

In exercise of the powers conferred by Section 3 of the University Grants Commission Act, 1956, the Central Government on the recommendation of the Commission has declared Sri Devraj Urs Academy of Higher Education and Research, Tamaka, Kolar, Karnataka, comprising Sri Devraj Urs Medical College, Tamaka, Kolar, Karnataka, as a 'Deemed to be University' for the purpose of the aforesaid Act, from the date of disaffiliation of 'Sri Devraj Urs Medical College', Tamaka, Kolar, Karnataka, from Rajiv Gandhi University of Health Sciences, Bangalore, Karnataka.

2. This declaration is subject to the conditions mentioned at S.No.2 of the endorsement of this notification.

3. The Ministry of Human Resource Development or the University Grants Commission will not provide any Plan and Non-Plan grants to Sri Devraj Urs Academy of Higher Education and Research or any of its constituent institutions.

(Urmil Gulati)
Under Secretary

Copy forwarded to :-

1. The Vice-Chancellor, Rajiv Gandhi University of Health Sciences, 4th 'T' Block, Jayanagar, Banaglore-560 041, Karnataka

2. Chairman, Sri Devraj Urs Academy of Higher Education and Research, Tamaka, Kolar-536101, Karnataka. The declaration made in para 1 of this notification relating to conferment of status of deemed-to-be-university will be subject to the following conditions:-

(a) The 'Deemed-to-be-University' shall finalise its Memorandum of Association (MoA) and Rules immediately in conformity with the University Grants Commission's Model MoA and Rules for the Deemed to be Universities and get it approved by the UGC.

(b) The management of Sri Devraj Urs Medical College, Tamaka should legally vest with Sri Devraj Urs Academy of Higher Education and Research.

(c) The moveable as well as immovable assets, including that of Sri Devraj Urs Medical College should be legally transferred in the name of the Trust formed for management of the deemed-to-be-university institution through a valid deed registered under the Indian Registration Act, in the interest of future of students, members of faculty, employees and for maintaining the standards of higher education.

(d) The deemed-to-be-university institution or its constituent unit shall not offer any course/programme that has not been approved by the Ministry of Health and Family Welfare or other relevant Ministries and/or the relevant Statutory Councils such as Medical Council of India, etc.

(e) The deemed-to-be-university institution or its constituent unit shall not offer/award, as the case may be, any degrees that are not specified by the UGC. The deemed-to-be-university institution will continue to ensure that the nomenclature of the degrees awarded by it are specified by the UGC under Section 22 of the UGC Act,1956.

(f) The deemed-to-be-university institution shall award degrees to only those students who are admitted/enrolled with it or its constituent unit subsequent to the date of this notification.

(g) As for those students who are already enrolled with the institution concerned prior to the date of this notification, they shall continue to be enrolled with the present affiliation university, namely, Rajiv Gandhi University of Health Sciences, Bangalore, which shall have to agree to examine and grant degrees to them on successful completion of the courses/ programmes they are pursuing at present in the teaching institutions of the deemed-to-be-university institution.

(h) The deemed-to-be-university institution shall regularly obtain the requisite 'renewal' of approval / permission of Ministry of Health and Family Welfare and other relevant Statutory Councils, as the case may be, well within the prescribed time limit, in respect of the courses offered, intake capacity of students, etc.

(i) The deemed-to-be-university institution and its constituent unit shall start/offer, as the case may be, the courses/programmes in accordance with the relevant prescribed norms and guidelines of the UGC and the relevant statutory professional regulatory Councils, such as Medical Council of India (MCI), Indian Nursing Council (INC), Dental Council of India (DCI), AICTE, etc.

(j) The 'Deemed-to-be-University' as well as its constituent institutions shall strictly abide by all the norms and guidelines as laid down by the UGC and other Statutory Councils such as Medical Council of India, etc. from time to time, as are applicable to institutions notified as 'Deemed-to-be-Universities.

The Secretary, Government of India, Ministry of Human Resource Development, Department of Secondary & Higher Education, Shastri Bhawan, New Delhi-110 001

4. The Principal Secretary (Higher Education), Education Department, Government of Karnataka, M.S.Building, 5th Floor, Bangalore-560 001

5. PS to Chairman, UGC, New Delhi

6. The Joint Secretary (NET) UGC, New Delhi

7. The Joint Secretary (DU), UGC, New Delhi

8. Secretary General, Association of Indian Universities, AIU House, 16 Kotla Marg, New Delhi-110 002

9. Member Secretary, AICTE, IG Sports Complex, I.P.Estate, New Delhi-110 002

10. All Regional Offices of UGC

11. Senior Statistical Officer, UGC, 35, Ferozeshah Road, New Delhi

12. All Sections in the UGC Office

13. Guard File

(Urmil Gulati)
Under Secretary

(TO BE PUBLISHED IN THE GAZETTE OF INDIA PART-I, SECTION-1)

(1)

No.F.9-36/2006-U.3(A)
Government of India
Ministry of Human Resource Development
Department of Higher Education

Shastri Bhawan, New Delhi,
Dated the 25th May, 2007.

NOTIFICATION

In exercise of the powers conferred by Section 3 of the University Grants Commission (UGC) Act, 1956, the Central Government, on the advice of the University Grants Commission, hereby declare Sri Devaraj Urs Academy of Higher Education and Research, Tamaka, Kolar, Karnataka, comprising Sri Devaraj Urs Medical College, Tamaka, Kolar, Karnataka, as a 'Deemed-to-be-University' for the purposes of the aforesaid Act, from the date of disaffiliation of 'Sri Devaraj Urs Medical College', Tamaka, Kolar, Karnataka, from Rajiv Gandhi University of Health Sciences, Bangalore, Karnataka.

2. This declaration is subject to the conditions mentioned at Sl. No. 5 of the endorsement of this notification.

3. Government of India or the University Grants Commission will not provide any Plan or Non Plan grants to Sri Devaraj Urs Academy of Higher Education and Research or any of its constituent institutions.

(Sunil Kumar)
Joint Secretary to the Government of India

The Manager,
Government of India Press,
Faridabad (Haryana).

Copy to: -

1. The Secretary, University Grants Commission, Bahadurshah Zafar Marg, New Delhi -110002.

2. The Secretary, Medical Council of India, Pocket - 14, Sector - 8, Dwarka Phase-I, New Delhi - 110075.

3. Vice Chancellor, Rajiv Gandhi University of Health Sciences, 4th 'T' Block, Jayanagar, Bangalore - 560041, Karnataka.

4. Under Secretary(ME-P.II), Ministry of Health and Family Welfare (Department of Health & Family Welfare), Nirman Bhavan, New Delhi - 110001.

5. Chairman, Sri Devaraj Urs Academy of Higher Education & Research, Tamaka, Kolar - 536101, Karnataka. The declaration made in para 1 of this notification relating to conferment of status of deemed-to-be-university will be subject to the following conditions:-

(a) The 'Deemed-to-be-University' shall finalise its Memorandum of Association (MoA) and Rules immediately in conformity with the University Grants Commission's Model MoA and Rules for the Deemed to be Universities and get it approved by the UGC.

(b) The management of Sri Devaraj Urs Medical College, Tamaka should legally vest with Sri Devaraj Urs Academy of Higher Education & Research.

(c) The movable as well as immovable assets, including that of Sri Devaraj Urs Medical College should be legally transferred in the name of the Trust formed for management of the deemed-to-be-university institution through a valid deed registered under the Indian Registration Act, in the interest of future of students, members of faculty, employees and for maintaining the standards of higher education.

(d) The deemed-to-be-university institution or its constituent unit shall not offer any course/programme that has not been approved by the Ministry of Health and Family Welfare or other relevant Ministries and/or the relevant Statutory Councils such as Medical Council of India, etc.

(e) The deemed-to-be-university institution or its constituent unit shall not offer/award, as the case may be, any degrees that are not specified by the UGC. The deemed-to-be-university institution will continue to ensure that the nomenclature of the degrees awarded by it are specified by the UGC under Section 22 of the UGC Act, 1956.

25/5

(f) The deemed-to-be-university institution shall award degrees to only those students who are admitted/enrolled with it or its constituent unit subsequent to the date of this notification.

(g) As for those students who are already enrolled with the Institution concerned prior to the date of this notification, they shall continue to be enrolled with the present affiliating university, namely, Rajiv Gandhi University of Health Sciences, Bangalore, which shall have to agree to examine and grant degrees to them on successful completion of the courses / programmes they are pursuing at present in the teaching Institutions of the deemed-to-be-university institution.

(h) The deemed-to-be-university institution shall regularly obtain the requisite 'renewal' of approval / permission of Ministry of Health and Family Welfare and other relevant Statutory Councils, as the case may be, well within the prescribed time limit, in respect of the courses offered, intake capacity of students, etc.

(i) The deemed-to-be-university institution and its constituent unit shall start/offer, as the case may be, the courses/programmes in accordance with the relevant prescribed norms and guidelines of the UGC and the relevant statutory professional regulatory Councils, such as Medical Council of India(MCI), Indian Nursing Council(INC), Dental Council of India(DCI), AICTE, etc.

(j) The 'Deemed-to-be-University' as well as all its constituent institutions shall strictly abide by all the norms and guidelines as laid down by the UGC and other Statutory Councils such as Medical Council of India, etc. from time to time, as are applicable to institutions notified as 'Deemed-to-be-Universities'.

6. Press Information Bureau, Shastri Bhawan, New Delhi-110001.

7. The Secretary-General, Association of Indian Universities, A.I.U. House, 16, Kotla Marg, New Delhi - 110002.

8. Director(Administration) & Web Master, Department of Higher Education, Shastri Bhavan, New Delhi. It is requested that suitable instructions may be issued to CMIS to upload this notification on the website (Home site) of the Department.

9. Guard file / Notification file.

Madhukar Sinha
29.05.13
(Madhukar Sinha)
Director

FORM 9

THE PATENT ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003

REQUEST FOR PUBLICATION

[See section 11A (2) rule 24A]

I/We **Sri Devaraj Urs Academy of Higher Education and Research** hereby request for early publication of my/our [Patent Application No.] TEMP/E-1/49130/2025-CHE

Dated **06/05/2025 00:00:00** under section 11A(2) of the Act.

Dated this(Final Payment Date):----------
Signature
Name of the signatory

To,
The Controller of Patents,
The Patent Office,
At Chennai

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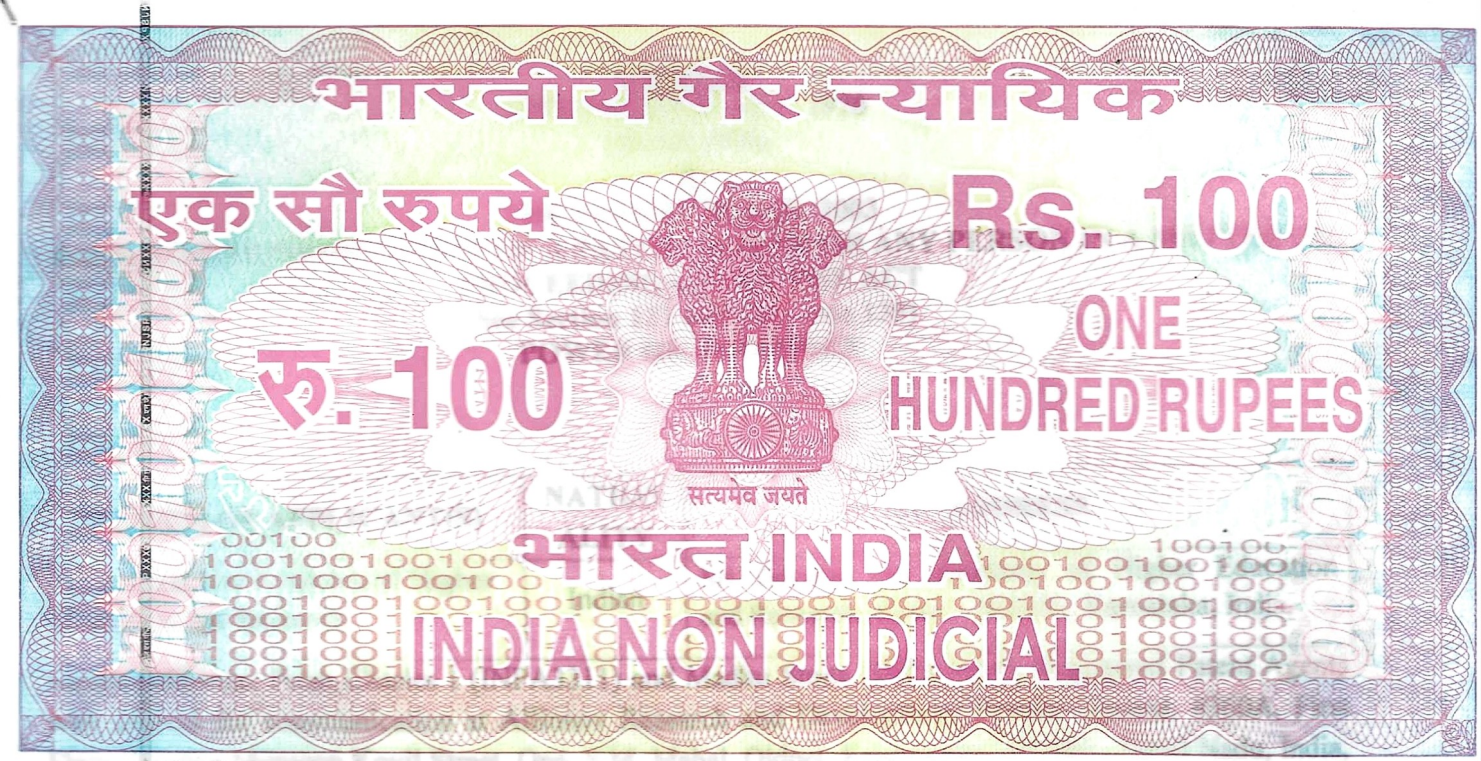

தமிழ்நாடு तमिलनाडु TAMILNADU

DS 115722

I. Pream Charless
Krishnagiri.

22 APR 2025

V. RADHA
S.V.L. No: 3936/B1/2000
163-A, Salem Road
KRISHNAGIRI-635 001

STAMP DUTY FOR
APPLICATION NO: 202541044063

FORM 26
THE PATENTS ACT, 1970
(39 OF 1970)
&
THE PATENT RULES, 2003
FORM FOR AUTHORIZATION OF A PATENT AGENT/OR ANY PERSON IN A MATTER OF PROCEEDING UNDER THE ACT
(See Section 127 and 132; rule 135)
POWER OF ATTORNEY

I / we,

NAME(S) OF APPLICANT(S)	NATIONALITY	ADDRESS
Sri Devaraj Urs Academy of Higher Education and Research	Indian	Sri Devaraj Urs Academy of Higher Education and Research, Kolar – 563101, Karnataka, India.

hereby authorize, Prem Charles I (INPA3311) and Madhu Smita (INPA3454), Registered Patent Agents with address for communication at Allinnov Research and Development Private Limited, #360A, First Floor, Senthur Murugan Kovil Street, Opp. S.M. Mahal, Oldpet, Krishnagiri - 635001, Tamil Nadu, India, to act on our behalf in connection with Patent filing and further prosecution, filing of assignments and any document related thereto, with reference to our patent application/ reference no. 202541044053 dated 06-05-25 and all further patent applications filed by them in future, on our behalf and request that all notices, requisitions and communications relating thereto may be sent to such person at the above address unless otherwise specified. They are also authorized to substitute another attorney / agent to attend hearings (if any) in relation to the patent. We hereby revoke all previous authorizations, if any, in respect of same matter or proceeding. We hereby assent to the action already taken by the said persons in the above matter.

Dated - 07-05-25

Registrar
Sri Devaraj Urs Academy of Higher Education and Research
Tamaka, Kolar - 563 103.

Sri Devaraj Urs Academy of Higher Education and Research

To,

The Controller of Patents

The Indian Patent Office

At Chennai, Kolkata, Delhi, Mumbai

Welcome Madhu Smita Sign out

Controller General of Patents, Designs & Trade Marks

सत्यमेव जयते

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G.A.R.6
[See Rule 22(1)]
RECEIPT

Docket No 45963

Date/Time 2025/05/06 21:26:04

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Madhu Smita

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Sr. No.	App. Number	Ref. No./Application No.	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202541044053	TEMP/E-1/49130/2025-CHE	1600	27321	FORM 1	MULTI-FUNCTIONAL MODULAR DESK FOR UPPER EXTREMITY REHABILITATION THROUGH SIMULATED DAILY ACTIVITIES
2	E-12/10392/2025/CHE	202541044053	2500	27321	FORM 9	----
3	E-106/9059/2025/CHE	202541044053	0	-----	FORM28	----

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0001663027	Online Bank Transfer	0605250059759	4100.00	1475001020000001

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E-mail: chennai-patent@nic.in
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1	202541044053	E-5/4062/2025/CHE	0	-----	FORM 5	
2	202541044053	E-3/9179/2025/CHE	0	-----	FORM 3	

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Sr. No.	App. Number	Ref. No./Application No.	Amount Paid	C.B.R. No.	Form Name	Remarks
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