

**Institutional Animal Ethics Committee (IAEC)**

**NATIONAL INSTITUTE OF SIDDHA**  
(An autonomous body under Ministry of AYUSH, Govt. of India)  
Tambaram Sanatorium, Chennai 6000 47.

**CERTIFICATE**

This is to certify that the project proposal No. **NIS/IAEC-22/R02/16112021/16** entitled "Scientific validation of herbo-mineral Siddha preparation *Nava Uppu Mezhugu* (NUM) pertaining to its Anti-spasmodic, Anti-inflammatory and Analgesic activities" submitted by **Dr. T. Jayaveeran** has been approved/recommended by the IAEC of National Institute of Siddha in its meeting held on 16.11.2021 and **30 Rats (15 Male + 15 Female) & 30 Mice (15 Male + 15 Female)** have been sanctioned under this.

<b>Authorized by</b>	<b>Name</b>	<b>Signature /Date</b>
Chairperson	Prof. Dr. R. Meenakumari	 -----
Main Nominee of CPCSEA	Prof. Dr. Geetha Ramesh	 -----
Member Secretary	Dr. B.R. Senthilkumar	 -----



NATIONAL INSTITUTE OF SIDDHA, CHENNAI – 600047

**BOTANICAL CERTIFICATE**

Certified that the following plant drugs used in the Siddha formulation “**Nava Uppu Mezhugu** ” taken up for Post Graduation Dissertation studies by **Dr.T.Jayaveeran** M.D.(S), II year, Department of Gunapadam, 2022, are identified through Visual inspection, Experience, Education & Training, Organoleptic characters, Morphology, Micromorphology and Taxonomical methods as

*Zingiber officinale* Rosc. (Zingiberaceae), Dried Rhizome  
*Piper nigrum* Linn. (Piperaceae), Fruit  
*Piper longum* Linn. (Piperaceae), Fruit  
*Croton tiglium* Linn. (Euphorbiaceae), Seed  
*Terminalia chebula* Retz. (Combretaceae), Fruit  
*Phyllanthus emblica* Linn. (Euphorbiaceae), Fruit  
*Terminalia bellirica* (Gaertn.) Roxb. (Combretaceae), Fruit  
*Abutilon indicum* (Linn.) Sw. (Malvaceae), Root  
*Citrullus colocynthis* (L.) Schrader (Cucurbitaceae), Fruit



Certificate No: NISMBS882023

Date: 25-11-2022

  
25/11/22  
Authorized Signatory  
Dr. D. ARAVIND, M.D.(S), M.Sc.,  
Assistant Professor  
Department of Medicinal Botany  
National Institute of Siddha  
Chennai - 600 047, INDIA

## AUTHENTICATION CERTIFICATE

**Certificate No: Gun/Aut/025A/22**

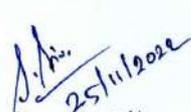
**Date: 25.11.2022**

Certified that the following minerals/ metals/ animal products used in the Siddha formulation ***Nava Uppu Mezhu*** taken up for the Post Graduate Dissertation study by **Dr. T. JAYAVEERAN**, Department of Gunapadam, National Institute of Siddha, Chennai-47 are correctly identified and authenticated through visual inspection/ experience, organoleptic characters, morphology, etc.

1. *Kariyuppu* - Type of Sodium Chloride
2. *Indhuppu* - Rock salt
3. *Valayatuppu* - Glass gale
4. *Potiluppu* - Potassium Nitrate
5. *Amuriuppu* - Ammonium Chloride
6. *Moonkiluppu* - Bamboo Salt
7. *Kalluppu* - Sodium Chloride
8. *Paaraiuppu* - Type of Sodium Chloride
9. *Pooneeru* - Sodium Carbonate
10. *Veeram* - Hydrogyrum perchloride
11. *Karpooram* - Champhor
12. *Cow's Milk*

Chennai-47

25.11.2022

  
Head of the Department i/c

**Dr. S. SIVAKKUMAR**  
Asso. Professor (Gunapadam), Reg. No: 2418  
National Institute of Siddha