# LIST OF PROJECTS 2026-27

## I. IMR projects

| | |
|---|---|
| **Completed** | |
| 1 | Development of Micro forest of Medicinal plants by using Miyawaki method of plantation |
| 2 | To investigate the inhibitory effect of various medicinal plants used in the Ayurvedic system against dental caries-causing micro-organisms. |
| 3 | In-Vitro Screening of Plants/Vegetables/Fruits/Herbs for their Suitability as Prebiotics |
| 4 | Process validation, Pharmaceutical standardization with classical and modern techniques along with the evaluation of shelf- life and antimicrobial activity of Pippalyadi Yonivarti, Arkadi Yonivarti and Kushthadi Yonivarti |
| 5 | Process validation and Pharmaceutical Standardization of Polyherbal formulations (Ajmodadi Churna, Panchkola Churna and Haridradi Churna) with its shelf life and antimicrobial evaluation |
| 6 | Feasibility of bulk preparation and quality control of selected classical Ayurvedic Vattis preparations for research purposes. |
| 7 | Formulation, Standardization and Process Validation of Laghu Sutashekhar Rasa Tablet |
| 8 | Pharmaceutical Standardization, Antimicrobial activity and Accelerated stability study of Arkas of Ajamoda, Guduchi, Kiratatikta and Mishreya |
| 9 | Process Validation, Pharmaceuticals Standardization, Accelerated Stability Study, and Evaluation of Antimicrobial Activity of Ayush Ghutti Dispersible Tablet.. |
| 10 | Pharmaceutical standardization of five calcium containing Bhasmas (Shankha, Shukti, Varatika, Godanti and Kukkutanda Twak) and their chemical analysis by advanced analytical techniques |
| 11 | Process validation and pharmaceutical standardization of Pishtis of Akika, Jaharmohara, Badarashm, and Trinkantmani and their chemical analysis by advanced analytical techniques |
| 12 | Process validation, pharmaceutical standardization and evaluation of antimicrobial activity of Ajeernakantak Ras, Kanaksundar Ras and Hinguleshwara Ras |
| 13 | Process Validation, Pharmaceutical Standardization and Accelerated Stability Study of Ayush LND Tablets |
| 14 | Process Validation, Pharmaceutical Standardisation and Accelerated Stability testing of Bhallatakadi Modaka |

| | |
|---|---|
| 15 | Documentation of Life Profiles of Admirable Personalities to Transform Ayurveda (APTA) -Late Prof. Priyavrat Sharma |
| 16 | Preclinical Standardization and Development of Standard Operating Procedure for AYUSH Coded Drug SG-5 |
| 17 | Development of Quality Standards of Ayurvedic Plants for the Ayurvedic Pharmacopoeia of India |
| 18 | Development of Drug of Drug Master File and Dossier for *Picrorhiza kurroa* an Important Promising Medicinal Plant from Ayurveda and Contemporary Research. |
| 19 | Marker based Shelf-Life study and Development of Marker(s) Based Quantification Methods for the Most Ayurvedic Raw Drugs |
| 20 | QC Analysis, Estimation of Markers/PRS & Shelf-life studies of Ayush PVK Gel, Ayush AGT Cream and AGT lotion |
| 21 | Preclinical Standardization and Development of SOP for Coated Tablets from Aqueous and Hydroalcoholic Extracts of Amlaki, Guduchi and Vasa and Shelf-life Studies. |
| 22 | Development of Quality Standards of Non-codified Lead Plants. |
| 23 | Marker-based Traceability in Ayush Kwath Churna and its Raw Drugs, Shelf-life and Exploration of Antioxidant & Antimicrobial Potency: A new horizon to explore Ayush Kwath Churna |
| 24 | Pharmacognostical Evaluation of Medicinal Plants cited in Ayurvedic Formulary of India excluding the plants mentioned in Ayurvedic Pharmacopoeia of India, Part-II |
| 25 | Digitization of Herbarium Sheets and Development of Digital Herbarium at Regional Ayurveda Research Institute, Jhansi. |
| **Ongoing** | |
| 1 | Anthology of survey research outcome from MEBS |
| 2 | Screening of various Herbal/plants based raw materials for fungal growth associated with mycotoxin contamination |
| 3 | Identification of potent anti-microbial compounds from medicinal plants against multi-drug resistant ESKAPE(E) bacteria isolated from different water sources in and around Jhansi district |
| 4 | Documentation of Life Profiles of Admirable Personalities to Transform Ayurveda (APTA) Late Prof. Suresh Chandra Shastri |
| 5 | Documentation of Life Profiles of Admirable Personalities to Transform Ayurveda (APTA) Late Vd. Shree Ram Narayan Sharma |
| 6 | Pharmaceutical Development and Standardisation of Ayush VR oil, its gel/ ointment form with Accelerated Stability Study, In-silico, Antibacterial and Antifungal Activities. |
| 7 | Pharmaceutical standardization & characterization of Yashad Bhasma Prepared by traditional and contemporary method of heating |
| 8 | Formulation development and pharmaceutical standardization of Amrutadi vati (tablets) by different methods using Churna, Aqueous and Hydroalcoholic Extracts with their comparative analytical and Accelerated Stability Studies |
| 9 | Formulation Development, Pharmaceutical Standardization and Accelerated Stability Studies of Pushkar Guggul Tablets |
| 10 | Efficacy and Safety of Ayurveda Interventions for Dysfunctional Uterine Bleeding (DUB): A Protocol for Systematic Review |

| | |
|---|---|
| 11 | QC Analysis, Estimation of Markers/PRS & Shelf-life Studies of Ayush PTK and Go-Mutra Haritaki |
| 12 | Effect of geographical variations, phytochemical profiling and marker-based quantification of selected medicinally important Ficus species |
| 13 | Development of Quality Standards, Estimation of Markers and Shelf-Life Study of Ayush-82 and Ayush-SG |
| 14 | Development of SoP, QC standards & Shelf-life study of CCRAS Coded drug AYUSH UT Ointment |
| 15 | Development of Quality Standards, estimation of Markers/PRS & Shelf-life Study of CCRAS Coded drugs AYUSH SDM Tablet and AYUSH PK Avaleha |
| 16 | Isolation of Marker Compounds from Ayurvedic Ingredients Used in CCRAS Coded Drugs namely Ayush-HR, Ayush-56, Ayush-PJ-7, & Ayush-SC-3 |
| 17 | Development of Quality standards for Useful Parts of selected Medicinal Plants of Ayurveda |
| 18 | Macroscopic and Microscopic Atlas preparation of selected plants of Ayurvedic importance. |
| 19 | Medico-Ethno-botanical Survey of West Forest Division of Chhindwara district in the State of Madhya Pradesh, India. |
| 20 | Product Development, Pharmaceutical Standardization and Accelerated stability study of Ayush Nutri granules along with Computational study for its active metabolites |
| 21 | Pharmaceutical Development of Ayush Osto tablets (Quality assurance and stability studies) |
| 22 | Evaluation of Seasonal and Geographical variation phytoconstituents/Marker compound in Selected Medicinal plants used in Ayurveda |
| 23 | Elucidation of antimicrobial potential against MDR bacteria and prebiotic activity of selected Ayurvedic formulations |
| 24 | Development of Quick Response Codes (QR Codes) for medicinal plants garden at CCRAS. |

## II. Collaborative projects

| | |
|---|---|
| **Completed** | |
| 1 | Development of Quality Standards of Selected Extra Pharmacopoeial *(Anukta Dravya)* Drugs used in Local Health Traditions collected from different regions of India |
| **Ongoing** | |
| 1 | Preclinical Toxicity Study of Dhatri Lauha (CDRI-Lucknow) |
| 2 | Profiling of Phytochemicals in Ayurvedic medicinal formulations and understanding their aggregation behaviour (IIT Gandhinagar) |
| 3 | Mechanistic studies in the elucidation of Shodhana for nine Poisonous medicinal plants of E1 schedule (NBRI-Lucknow) |
| 4 | Development of a device for efficient removal and recovery of heavy metals from the fumes of Rasa Ausadhies during its preparation |
| 5 | Centre of Excellence (CoE) in "SUSTAINABLE Ayush" "Centre of Excellence in Sustainable Ayush for Advanced technological solutions, startup support and net zero sustainable solutions for Rasaushadhies" |
| 6 | Evaluation of Vidangadi Lauham a classical Ayurvedic formulation in the management of diabetes in experimental animals |
| 7 | Pre-clinical development of Amalaki (*Phyllanthus emblica* L.) fruit through AYUSH route as adjunct therapy in tuberculosis to reduce anti-tubercular treatment (ATT) induced hepatotoxicity |
| 8 | Pre-clinical development of Guduchi (*Tinospora cordifolia* Miers) stem through AYUSH route as adjunct therapy in tuberculosis to reduce anti-tubercular treatment (ATT) induced hepatotoxicity |
| 9 | Pre-clinical development of Vasa (*Justicia adhatoda* L.) leaves through AYUSH route as adjunct therapy in tuberculosis to reduce anti-tubercular treatment (ATT) induced hepatotoxicity |
| 10 | Study of selected Ayurvedic herbs for their anti-angiogenic potential and toxicity profile in Zebra Fish embryo model for cancer management (Collaborative to RARI Gwl.) |
| 11 | Plant Diversity Database of Selected Plant Species used in the Ayurveda of RARI, Pune (Collaborative to RARI, Pune.) |
| 12 | Characterization of important medicinal plants through DNA barcoding |
| 13 | Identification of Adulterant substitute for Ayurveda plant raw material in trade |
| 14 | A comparative study on Hydroponic and field cultivation of medicinal plants used in Ayurveda |
| 15 | Pharmaceutical development and standardization of Lodhradi Yonivarti, Ayush LPM Vaginal Tablet and Ayush Vaginal Gel along with its evaluation of Vaginal Irritation study, shelf life and anti-microbial study.(Collaborative to NIPER, Raebareli) |

| | |
|---|---|
| 16 | Formulation, development and pharmaceutical standardization of Dadrughna ointment with Antifungal, Antimicrobial, Dermal toxicity and accelerated stability study. (Collaborative to RARI, Gwalior) |

## III. EMR projects

| | |
|---|---|
| **Completed** | |
| 1 | Development of quality standards of non-codified lead plants- DST NIF |
| 2 | Raising quality planting materials of medicinal plants in the herbal garden of RARI, Jhansi with the established Agro-techniques. |
| **Ongoing** | |
| 1 | Establishment of National Raw Drug Repository |
| 2 | Development of Quality standards of Botanicals used in Ayurveda grown in Mauritius |
| 3 | CoE Rasa aushadhi |