SUO-MOTO DISCLOSURE UNDER SECTION 4(1)(B) OF RIGHT TO INFORMATION ACT, 2005



CCRAS - CENTRAL AYURVEDA RESEARCH INSTITUTE, KOLKATA
(An Autonomous Organisation under CCRAS
Ministry of AYUSH, Government of India)
4-CN, Block, Sector- V, Bidhannagar, Kolkata - 700 091
Phone No: 033 23671002; email ID: nriadd.kolkata@gmail.com

RTI APPLICATION FORM

1. Particulars of the Applicant:
(a) Name:(b) Address:
(c) E-mail address:
(d) Phone/ Fax. No.:
2. Date of Submission of Application:
3. Subject Matter:
4. Details of Information requested:
5. Period to which the information relates:
6. Fee enclosed (in cash/DD/Banker's cheque/IPO):7. Due date by which information is to be furnished (30 days from submission of application)
8. How the applicant would like his information to be sent: (a) By post:
(b) To be collected by hand:
(c) By e- mail: (d) By fax:

INDEX

Particulars of Information under Section 4(1)(b) of the RTI ACT, 2005

Section	Particulars	Page Nos.
Section 4(1)(b)(i)	The particulars of its Organisation, Functions and Duties	4-43
Section 4(I)(b)(ii)	The Powers and Duties of its Officers and Employees	44
Section 4(1)(b)(iii)	The procedure followed in the decision making process, including channels of supervision and accountability	45
Section 4(1)(b)(iv)	The norms set by it for the discharge of its functions	46
Section 4(1)(b)(v)	The rules, regulations, instructions, manuals and records, held by it or under its control or used by its employees for discharging its functions	47
Section 4(I)(b)(vi)	A statement of the categories of documents that are held by it or under its control	48
Section 4(1)(b)(vii)	The particulars of any arrangement that exists for consultation with, or representation by, the members of the public in relation to the formulation of its policy or implementation thereof;	49
Section 4(I)(b)(viii)	A statement of Boards, Councils, Committees and other bodies consisting of two or more persons constituted as its part or for the purpose of its advice, and as to whether meetings of those Boards, Councils, Committees and other bodies are open to the public, or the minutes of such meetings are accessible for public;	50-51
Section 4(I)(b)(ix)	Directory of Officers and Employees	52
Section 4(1)(b)(x)	The monthly remuneration received by each of its officers and employees, including the system of compensation as provided in its regulations;	53-54
Section 4(1)(b)(xi)	The budget allocation to each of its agency, indicating the particulars of all plans, proposed expenditures and reports on disbursements made;	55
Section 4(1)(b)(xii)	The manner of execution of subsidy programmes, including the amounts allocated and the details of beneficiaries of such programmes	56
Section 4(1)(b)(xiii)	Particulars of recipients of concessions, permits or authorizations granted by it.	57
Section 4(I)(b)(xiv)	Details in respect of the information available to or held by it, reduced in an electronic form;	58
Section 4(1)(b)(xv)	The particulars of facilities available to citizens for obtaining information, including the working hours Of a Library or reading room, if maintained for public use; &	59
Section 4(1)(b)(xvi)	The names, designations and other particulars of the Public Information Officers.	60

Particulars of Organization. Functions and Duties

CENTRAL AYURVEDA RESEARCH INSTITUTE, KOLKATA (CENTRAL COUNCIL FOR RESEARCH IN AYURVEDIC SCIENCES)

Central Ayurveda Research Institute (CARI), Kolkata situated at 4-CN Block, Sector-V, Bidhannagar, Kolkata- 700091 is a premier Institute under Central council for Research in Ayurvedic Sciences, New Delhi, Ministry of AYUSH, Government of India and dedicated to the research of Ayurveda. This Institute has started its journey as the project named 'Composite Drug Research Scheme (CDRS)' at Shyamadas Vaidya Shastra Peeth, 294/3/1, Acharya Prafulla Chandra Road, Kolkata- 700009 (presently known as Institute of Post Graduate Ayurvedic Education & Research) on 1968 under leadership of Kj. S. K. Roy. In 1972, this Institute had been shifted to its rented house at Laxmibilash Bhawan, Jagannath Datta Lane, Kolkata as Regional Research Institute (Ayurveda) [RRI(Ay.)] and started its activities through OPD, IPD and Pharmacy.

RRI(Ay.), Kolkata was shifted to its own building along with 03 acres premise on 17.03.1997 which was provided by the Govt. of West Bengal at present location which is now considered as prime area of the city. RRI(Ay.), Kolkata had been upgraded as **Central Research Institute** (**Ayurveda**) [**CRI(Ay.)**], Kolkata on 01.11.1999 with the mandate of drug development and different units of **Chemistry, Pharmacognosy and Pharmacology** were amalgamated under the single umbrella. Research Scheme for Screening of Contraceptive Agents (RSSCA) Unit, Orissa, University of Agriculture and Technology, Bhubaneswar, Pharmacological Research Unit, Dept. of Pharmacology, IMS, BHU, Varanasi and Pharmacological Research Units (Dept. of Pharmacology, University College of Medicine and University of Calcutta, Kolkata) were merged at CRIA, Kolkata under Dept. of Pharmacology. Pharmacognosy Research Unit at **Dept. of Botany**, University of Calcutta (Ballygunge campus) was shifted at the new campus as Dept. of Pharmacognosy and Chemical Research Unit at Dept. of Chemistry, University of Calcutta (Rajabazar campus) were also shifted to CRI (Ay.) on 21.03.1997 during the same period.

In the month of November, 2009, the Institute was re-named by the Department of AYUSH as **National Research Institute of Ayurvedic Drug Development (NRIADD)**, Kolkata with new mandates considering its huge contribution and leadership in the drug development in Ayurvedic sciences. This Institute again renamed as Central Ayurveda Research Institute for Drug Development, Kolkata on 12th April 2016 with revised mandate and activities. CARIDD was again renamed as **Central Ayurveda Research Institute (CARI)** w.e.f. 26.12.2020 and it is presently functioning with six departments *i.e.* Hospital (OPD & 20 beds IPD); Pathology, Biochemistry and Microbiology; Pharmacognosy; Chemistry; Pharmacology and Histopathology; Pharmacy. Multistoried new building (B+G+7) work is in progress in the same premises.

VISION:

- To develop an Institute as best Institute or Institute of Excellence into a dynamic, vibrant and model research organization for undertaking more and more coordinating joint research ventures, aiding and promoting research in Ayurveda.
- To focus research on the need of masses with a view to emerging health requirement of India.
- To attain global leadership in Ayurveda research for promotion of health, preventive / treatment management for lifestyle diseases and metabolic disorders.
- To bring modern scientific knowledge, technology to validate Ayurveda in scientific manner for welfare of the ailing humanity.
- To develop Institute as a Centre for excellence with healthy working environment in regards to GMP accredited pharmacy certified clinical wing and state-of-art laboratories.

MANDATE:

- Clinical Research
- Pharmacognosy Research
- Drug Standardization Research
- Pharmacological Research
- Health care services through Out–Patient Department (OPD) and 20 bedded In-Patient Department (IPD)
- Outreach Activity of AMHCP under SC Sub Plan
- Special facility for Panchakarma and Ksharasutra therapy
- Special Clinic for Geriatric Health Care

Drug Standardization Research related Specific Mandate

- Development of safe, effective, affordable Ayurvedic drugs based on strengths of Ayurveda for National and global needs on scientific lines at par globally accepted norms.
- Development of standards for identification, collection and storage practices of raw materials.
- Development of quality control parameters and standardization of raw materials, extractives etc.
- Development of suitable pharmaceutical dosage forms and drug delivery systems.
- Development of standard operating procedures for various classical and investigational new drugs (IND).
- Development of quality, stability parameters for various classical and investigational new drugs (IND) to facilitate their registration as traditional medicine under THMPD of European Union.

III. Technical Report:

III.1. Project work allotted/carried out during the reporting period 2023-24:

SN	Name of the Project	Project Summary	Remarks
A.	Clinical:		
1.	Clinical Evaluation of Gokshuradi Guggulu and Nimbadi Churna in Vatarakta (GOUT)	Target achived: 55	Completed
2.	Central Sector Scheme of Ayush Oushadhi Gunvatta Evum Utpadan Samvardhan Yojana (AOGUSY) under Ministry of AYUSH, Government of India.	Documented 96 misleading advertisements on Ayurvedic products and 19 Adverse Drug Reaction (ADR) till 31st March 2024. Organized 22 nos. of awareness programme including 05 nos. of seminar in different places.	Ongoing
3.	General health screening with special focus on Tuberculosis, Anemia, Haemoglobinopathies & Malnutrition and Ayurvedic Interventions for better health outcomes in students of Ekalavya Residential Model Schools (EMRS) functioning under M/o Tribal Affairs	Three EMRS schools at Jharkhand state named EMRS Bhognadih, EMRS Kathijoria and EMRS Tarsia has been allotted. The P.I. of the project along with other project staff has been visited those schools for conducting investigations / inspections programme on 11th & 12th March, 2024.	Ongoing
4.	Morbidity and Healthcare-seeking behaviour of the patients visiting the Ayurveda healthcare facilities of the DGAFMS Hospitals: A cross-sectional survey study	In this survey 1723 nos. of participants approached for willingness to participate in the survey in which 1685 nos. of participants successfully completed participation in the survey and 38 nos. of Non-responders till now.	Ongoing

SN	Name of the Project	Project Summary	Remarks
5.	Randomized Open Label Comparative Clinical Study on Management of Depression by Ayurveda and Yoga as Auxiliary Therapies in Combination with Conventional Treatment	-	Ongoing
	Outreach Programme:		
1.	Ayurveda Mobile Health Care Programme Under Scheduled Castes Sub Plan a general survey	Total 3750 population target were provided for the project. Numbers of Tour target were 200. Total Number of 3750 SC population were covered during the survey. Total 200 tours were conducted.	Completed
2.	Effectiveness of Ayush Rasayana A & B on Quality of Life of elderly population-A cluster randomized study	Primary objective: 1) To assess effectiveness of Ayush Rasayana A & Bon quality of life of elderly population Secondary objective: 1) To assess the effectiveness of Ayush Rasayana A & Bon quality of sleep of elderly population 2) To assess the effectiveness of Ayush Rasayana A & Bon functionality of elderly population 3) To assess the tolerability of Ayush Rasayana A & B among elderly population for 3 months Target achieved: Number of Screening Participants: 59. Number of screening failure Participants: 19. Number of Successfully completed Participants: 38. Number of Withdrawal Cases from Study (if any): 02 participants from Group I.	Completed
C.	Drug Development:	Croup II	
1.	Pharmacognostical evaluation of medicinal plants cited in Ayurvedic formulary of Indiaexcluding the plants mentioned in Ayurvedic Pharmacopoeia of India- PART-I	Botanical standardization of 08 crude drugs has been completed and final report submitted to CCRAS, Hqrs.	Completed. Add on works ongoing
2.	Pharmacognostical evaluation of medicinal plants cited in Ayurvedic Formulary of India excluding the plants mentioned in Ayurvedic Pharmacopoeia of India-PART-II.	Microscopy of 08 crude drugs from 03 different geographical regions has been completed. Monograph preparation for 14 plants and project report compilation is under progress	Ongoing
3.	To establish the best procurement time for certain herbs by analyzing the seasonal variation in bioactive secondary metabolite with quantitative HPLC-Part-II.	Pharmacognostical study and HPLC analysis five crude drugs of six seasons completed	Ongoing
4.	Optimization of extraction process for	Macroscopic and microscopic studies:	Ongoing

SN	Name of the Project	Project Summary	Remarks
	the enrichment of extract with selected markers of some important Ayurvedic plants.	10 samples. Extraction optimization study of 01 plant for enriching the extract with marker compound has been completed.	
5.	Anthology of Pharmacognostical Research outcomes of CCRAS on Selected Medicinal Plants Used in the Ayurveda	Data of Twenty two (22) plants have been completed in the form of monographs entitled Quality Standard of selected Medicinal Plants, Volume-I, and publication is under process. Data of remaining plants are under revision.	Ongoing
6.	Development of quality standards of selected Extra-pharmacopeial (Anukta Dravyas) drugs used in local health traditions collected from different regions of India.	Botanical and phytochemical profiles of two (02) extrapharmacopoeial medicinal plants.	Ongoing
7.	Digitalization and indexing of herbarium sheets at CARI Kolkata collected from 1970-2000	Sorting, Cleaning, digitalization and indexing of the herbarium sheets done.	Ongoing
8.	Comparative Pharmacognostical and Phytochemical Standardization of Commonly Adulterating Ayurvedic Drugs and Their Adulterants	Purchase of semiautomatic HPTLC instrument and seven marker compounds done. Morphological and Powder microscopy of one crude drug done.	Ongoing
9.	Evaluation of the Heavy metal contents in market samples of plant raw drug used in Ayurveda.	Technical report compilation is going on.	ongoing
10.	Authentication of selected crude drugs through pharmacognostical evaluation, collected from various markets of India	Preparation of additional points in discussion part and compilation of high quality image data for monograph publication of 241 market crude drugs has been completed and sent to CCRAS, Hq. as per instruction.	Add on Works of completed IMR projects
11.	"Digitized Retrieval Application for Versatile Yardstick of Ayush-Substance (DRAVYA)"	New project has been sanctioned in Collaboration with CCRAS HQ, New Delhi.	ongoing
12.	"Development of quality standards for useful parts of Selected Medicinal Plants of Ayurveda"	Newly sanctioned project. Literature review of selected plants under the project has been started.	ongoing
13.	Pharmacognostical and Chemical Profiling of selected Indian Medicinal Flowers. (CO-I)	Development of fingerprint with selected extract of the flowers using different combination of solvents has been tried for maximum resolution of chemical components. Done for 36 flowers.	Ongoing
14.	"Development and Digitalization of Authentic Ayurvedic Raw Drug and Herbarium for the Medicinal Plants Appearing in Ayurvedic Formularies of India in Mandatory Drug Testing Laboratories of CCRAS." (Co-I)	Three plant parts were supplied to CSMCARI, Chennai along with passport data, GPS details, habit photographs and inflorescence photo.	Ongoing
15.	Evaluation of Kanchanar guggulu and Varunadi Kashaya against letrozole induced polycystic ovarian syndrome associate conditions in female wistar rats	Submitted the technical report.	Completed

SN	Name of the Project	Project Summary	Remarks
16.	Evaluation of Cytotoxicity, Pharmacokinetics, Anti-Cancer Activity, Detailed Molecular Mechanisms of Bhallatakadi Modaka in In Vitro (2D and 3D Culture) and in vivo Tumor Xenograft Models(In collaboration with CSIR-IICB, Kolkata)	Submitted the technical report	Completed
17.	Evaluation of anti-cancerous potential, insilico pharmacological analysis and molecular mechanism of Kanchanar guggulu in ovarian cancer µTumor spheroids, and in in-vivo models (In collaboration with CSIR-IICB, Kolkata)	Method validation of qRT-PCR was executed. Method validation of qRT - PCR has been finalized for a type of sample. Samples were run and observations were made	Ongoing
18.	Evaluation of Neuroprotective potential of Brahmi Ghrita, Panchgavya Ghrita and Ayush 56 in epilepsy model, its functional significance and mechanism (In collaboration with CSIR-IICB, Kolkata)	MOU has been signed with CSIR IICB and amount has been transferred.	Ongoing
19.	Chemopreventive Effects of Opuntia elatior Fruits Against Chemotherapy- Induced Toxicity in Ovarian Cancer Pre- Clinical Models(In collaboration with CSIR-IICB, Kolkata)	MOU has been signed with CSIR IICB and amount has been transferred.	Ongoing
20.	Evaluation of anti-bacterial, anti- oxidant and immuno-modulatory properties of selected Ayurvedic formulations.	Catalase assay and FRAP assay has been standardized. Antibacterial activity of different extracts of Chitrakadi vati on different bacterial strains started.	Ongoing
21.	Preclinical Evaluation and the Molecular Mechanism of Ayush-64 against Non-Alcoholic Fatty Liver Disease (NAFLD) and Non-Alcoholic Steatohepatitis (NASH) in murine mode. (In collaboration with NIPER, Kolkata)	MoU signed on 20.03.2024. Project in progress	Ongoing
22.	Evaluation of the inhibition potential of Ayurvedic drugs against cytochrome P450: Implications for drug-drug Interaction.(In collaboration with NIPER, Kolkata)	MoU signed on 05.01.2024. Drugs for study received and preparation of aqueous and hydroalcoholic extracts for <i>in vitro</i> study under progress. The pilot study for method standardization, method validation and pharmacokinetics in animals under progress.	Ongoing
23.	Deciphering pharmacodynamics of Ayurvedic formulations(AYUSH Manas, Amrit Bhallataka Ghrita and Jyotishmati Taila)used in the Treatment of Neurodegenerative Diseases by Integrating Reverse Pharmacological Approaches. (In collaboration with NIPER, Guwahati)	 Physicochemical and phytochemical characterization of Jyotishmati Taila and AYUSH Manas formulations completed. In vitro cell culture neuroprotective assays with treatment of study drugs are under progress In silico experiments under progress. In vivo neuroprotective (Parkinson's diseases) experiments with treatment of Jyotishmati Taila, Amrit Bhallataka Ghrita, and AYUSH Manas 	Ongoing

SN	Name of the Project	Project Summary	Remarks
		 formulations is completed. Combinational approach of Jyotishmati Taila and Ayush Manas with existing therapeutic drug in MPTP induced Parkinson's disease is completed. Effect of Jyotishmati Taila (<i>Celastrus paniculatus</i>; CP) formulation in Scopolamine induced Amnesia disease. 	
24.	Mechanistic investigations on the efficacy and mode of action of Ashwagandha and Yograj Guggulu, using a hybrid Proteomics-Cheminformatics-Network medicine approach for the treatment of Osteoarthritis. (In collaboration with IIT, Guwahati)	 Molecular Profiling: Identification of AI constituents (metabolites) (Method Optimization) completed. Target Identification: Mapping of the protein-protein interaction networks completed. Identification of individual metabolites (<i>In vivo</i> study) completed. Ashwagandha and Yogaraj Guggulu was administered daily for 28 days to MIA induced osteoarthritis rats is completed on 30.08.2023. The biochemical analysis of serum samples completed. In vivo image analysis of rat knee samples after sacrifice is completed and its data analysis completed. Histopathology analysis of rat knee samples after sacrifice is in progress. The samples analysis for proteomics and metabolomics is completed. Its data analysis is under progress. 	Ongoing
25.	Anticancer potential and molecular mechanism of Rasa Sindhoor on Ovarian cancer cells (In collaboration with CSIR-IICB, Kolkata)	 Completed the following studies:- Cytotoxicity study. The effect on mitochondrial membrane potential in OVACR-3 using confocal microscopy. Live-dead staining of on OVACR-3 ROS inducing potential on ovarian cancer cell lines OVCAR-3 by using DCFH-DA dye. Apoptosis inducing potential on 2008 and PEO1 cells by DAPI staining. DNA damage inducing potential in 2008 cell lines. Optimized the establishment of ovarian tumor xenograft in nude mice by injecting OCVAR-3 cells. Studied the effect of Rasa sindhoor on mitochondrial membrane potential in PEO4 ovarian cancer cells. Histopathology study on tumor tissue is in progress. 	Ongoing

SN	Name of the Project	Project Summary	Remarks
26.	Toxicity Profile of Rasamanikya Rasa in Experimental Animals (In collaboration with CSIR-IITR, Lucknow)	 Completed the following studies: - Acute oral toxicity study of Rasamanikya rasa in rats and mice. In vitro mammalian cell micronucleus test. In vitro mammalian chromosomal aberration test. Sub-acute 28 days repeated dose toxicity study in rats. 180 days repeated dose oral toxicity study of rasamanikya rasa in wistar rat is under progress 	Ongoing
27.	Evaluation of coded drug Ayush Rasayana B for treatment of high-altitude sickness using multi-dimensional drug discovery approach. (In collaboration with IIT(BHU), Varanasi)	Ongoing	Ongoing
28.	Evaluation of selected Ayurvedic plants and formulations for their anti-diabetic activity using <i>in-silico</i> screening and its <i>in-vitro</i> validation.	Ongoing	Ongoing
29.	Digitized retrieval application for versatile yardstick of Ayush substances (DRAVYA)	Ongoing	Ongoing
30.	Aqueous and hydroalcoholic extraction of selected Anukta Dravya plants and evaluation of their therapeutic efficacy for various diseases. (In collaboration with Sambalpur University, Orissa)	Ongoing	Ongoing
31.	Evaluation of effect of AYUSH M3 and Prabhakar vati on cardiovascular parameters (In collaboration with CDRI, Lucknow)	Ongoing	Ongoing
32.	Anti-hyperuricemic and anti-gouty arthritis activities of Amritadi guggulu on monosodium urate crystal induced in Wistar rats.	Sanctioned however budget not yet released.	Sanctioned however budget not yet released.
33.	Evaluation of acute, sub-acute (28 days) and chronic (180 days) repeated dose oral toxicity study of AYUSH-56 in experimental animals	Sanctioned however budget not yet released.	Sanctioned however budget not yet released.
34.	Evaluation of acute dermal toxicity, 90 days repeated dose dermal toxicity, analgesic and anti-inflammatory activity of AYUSH MML Oil in Wistar rats	Sanctioned however budget not yet released.	Sanctioned however budget not yet released.
35.	Development of <i>Opuntia elatoir</i> (fruit) based food recipe (Product development) and its nutritional, toxicity, efficacy and	Ongoing	Ongoing

SN	Name of the Project	Project Summary	Remarks
	bioavailability studies. (In collaboration		
	with NIN, Hyderabad)		
36.	Evaluation of Ayurvedic Formulation	Completed	Completed
	against Rat Model of Alzheimer's Disease.		
37.	Evaluation of Anti-diabetic and	Project completed and Final project	Completed
	Hepatoprotective Activity of Coded	report under preparation	1
	Formulation AYUSH-64 in		
	Experimental Animal Models.		
38.	Development of Quality standards and SOP for formulation AYUSH KVM	Botanical and chemical	Ongoing
	Syrup	standardization along with safety parameters of Batch I & II of AYUSH	
	Syrup	KVM Syrup is completed.	
		Botanical standardization and	
		microbial testing of raw drugs of Batch III	
		of AYUSH KVM syrup is completed.	
		HPTLC finger printing profiling of	
		Batch II of AYUSH KVM Syrup along	
		with raw drugs and respective marker is	
		completed.	
		• Assay of bioactive marker compounds present in raw drugs as well as	
		in the formulation of Batch I through	
		HPTLC/HPLC is ongoing.	
		Physicochemical parameters of raw	
		drugs of 3 rd batch of AYUSH KVM Syrup	
		is completed and analysis of safety	
39.	Isolation of Phytocpmpounds from	parameters are ongoing process. i. Column chromatography of the	Ongoing
39.	selected Ayurvedic medicinal plants	methanolic fraction of the <i>T. cordifolia</i>	Oligonig
	j	has afforded four phytocompounds in	
		the reporting period. One of which is	
		low melting solid.	
		ii. Column chromatography of the methanolic fraction of the <i>B. diffusa</i> has	
		afforded two phytocompounds in the	
		reporting period.	
40.	Rationalization of hydro-alcoholic	i. Determination of the gross extractive	Ongoing
	extractive protocols for selected plant roots/rhizomes of	values of Punarnava (Boerhavia diffusa L.) root, Shatavari (Asparagus	
	100ts/11fizonies of	L.) root, Shatavari (Asparagus racemosus) root, Haridra (Curcuma	
		longa L.) rhizome and Katuka	
		(Picrorhiza Kurroa Royle ex Benth.)	
		rhizome in variable hydro-alcoholic ratio	
		have been completed using cold	
		extraction and hot extraction (soxhlet) methods.	
		ii. Estimation of the secondary	
		metabolites of these plants in variable	
		hydro-alcoholic ratio is under progress.	
		iii. HPTLC profiling of these plants in	
		variable hydro-alcoholic ratio is under	

SN	Name of the Project	Project Summary	Remarks
		progress. iv. A definite outcome has obtained from the project but the value addition is continuous process which is tangible in next few months.	
41.	Ayurvedic importance for strategic drug development Isolation of Marker/PRS Compounds of selected Medicinal Plants	 Completed the cold and hot extraction process of Salaparni (root) by using solvent with increasing polarity of the solvent system - Hexane, chloroform, Ethylacetate, & Methanol ans based upon it ESI-LSMS was performed for each crude extract for getting idea about the phytoconstituents present in. Hot extraction process of Prishnaparni (Root) by using solvent with increasing polarity like hexane, chloroform, ethyl acetate and methanol is going for getting idea about the phytoconstituents present in. One phytocompound was isolated from methanolic extract of Shalaparni Root. Identification of that compound is under process. 	Ongoing
42.	AYUSH-HR	Project completed and final report submitted to HQ	Completed
43.	Panchavalka Kwatha Churna	Project completed and final report submitted to HQ	Completed
44.	Bharngayadhi Kwatha Churna	Project completed and final report submitted to HQ	Completed
45.	Nimbadi Churna	Project completed and final report submitted to HQ	Completed
46.	Udumbaradi Taila	Project completed and final report submitted to HQ	Completed
47.	Development of SOP s and quality standards for the formulation AYUSH 56.	Ongoing	Ongoing
48.	Development of quality standards and standard operating procedure for the formulation Stanyashodhana Kashaya Ghanavati.	Ongoing	Ongoing
49.	Process Validation and Pharmaceutical Standardization and Estimation of Shelf life Study of Vacalasunadi Taila, Somaraji Taila, Hingutriguna Taila and Yastimadhu Ghrit.	Ongoing	Ongoing
50.	Process validation and pharmaceutical standardization and estimation of shelf life study of Abhijit Taila ,Madhukadi Taila and Vyghri Taila	Ongoing	Ongoing
51.	Development of SOP's and quality standards for Ayurvedic formulation <i>Gandhaka Rasayana</i> .	Ongoing	Ongoing

III.2. Publication of Research papers/articles (publication in reputed National/ International journals) by Officers of Institute during the reporting period 2023-24:

S. N.	Name of the Correspo nding author	Туре	Citation of the Research Publication (Research Article)	Discipline	Date of publicat ion (Month & Year)	Indexi ng agency	DOI, ISSN	Name of Institute /Centre
1	Dr. B. K. Sarkar	Resear ch Article	A. Helen Sonia, Pawar Kavita Yogesh, Sonali V Uppalwar, Romila Antony, B. Sathya, Payal Rani, Rajiv Bharti, Biresh Kumar Sarkar, & Dhammshila L Devhare. (2023). Evaluation Of Azadirachta Indica Leaves Extract For Anti-Allergic Potential. Journal of Population Therapeutics and Clinical Pharmacology, 30(1), 401–408.	Drug Standardiza tion	2023	Scopu s, UGC care	01 doi.org /10.53 555/jpt cp.v30i 1.2437	CARI, Kolkata
2	Dr. B. K. Sarkar	Resear ch Article	Vinod M. Thakare, Shraddha A. Umare , Shraddha P. Vaishnav, Archana Barhate, Biresh Kumar Sarkar , Lalchand D. Devhare , Shruti M. Thakre (2023) Separation And Purification Of Carboxymethyl Cellulose From Spinacia Oleracea For Use In Pharmaceutical Dosage Form, Europian Chemical Bulatin, Eur. Chem. Bull., 12(Special Issue 5), 4062 – 4080	Drug Standardiza tion	2023	UGC care, Scopu s	DOI: 10.480 47/ecb/ 2023.1 2.si5a. 0306	CARI, Kolkata
3	Dr. B. K. Sarkar	Resear ch Paper	Konda V V S Krishna, Pushpendra Kumar Jain, Lalchand D Devhare, Rahul Kumar Sharma, Om M. Bagade, Allenki Venkatesham, Biresh Kumar Sarkar, Pawar Kavita Yogesh(2023). A Study On Antidiabetic Potential Of Dried Fruits Extract Of Eucalyptus Globulus In Experimental Animals. Journal Of Biomedical Engineering ManuscriptI, 2023; Vol. 40 No. 3	Drug Standardiza tion	15-08- 2023	UGC care	ISSN: 1001- 5515, Vol: 40 No. 3 (2023)	CARI, Kolkata
4	Dr. B. K. Sarkar	Resear ch Article	Sanjay Kumar, Ganesh Balappa Gajeli, Rekha Jangra, Laxmi Biban, Sonali Uppalwar, Vamseekrishna Gorijavolu, Biresh Kumar Sarkar, P.Balaji (2023) Exploring the potent Antidiarrheal Properties of Capparis Zeylanica Leaf Extracts, published in Europian Chemical Bulletin, Scopas Indexed and UGC approved. Vol.12, Special Issue-8	Drug Standardiza tion	2023 (Specia 1 issue 8)	UGC care, Scopu s	ISSN: 2063- 5346, Vol:12, Special Issue-8 (2023)	CARI, Kolkata
5	Dr. Shiddam allayya Nagayya	Resear ch Article	Pulicherla Y, Meher SK, Nagayya S, Bora D, Cheemanapalli S, Bhardwaj Y, Tripathi AK, Venkateshwarlu B, Rath C, Mangal AK, Narayanam S. Floristic exploration of East Sikkim district of Sikkim. Journal of Drug Research in Ayurvedic Sciences. 2023 Apr 1;8(2):159-72.	Medicinal Plant Research	31-04- 2023	UGC care	DOI: 10.410 3/jdras. jdras_1 61_22 ISSN: 2279- 0357	CCRAS
6	Dr. Ch.	Resear	Narasimhaji CV, Mangal AK, Rekha	Medicinal	31-04-	UGC	DOI:	CSMC

S. N.	Name of the Correspo nding author	Туре	Citation of the Research Publication (Research Article)	Discipline	Date of publicat ion (Month & Year)	Indexi ng agency	DOI, ISSN	Name of Institute /Centre
	Venkata Narasim haji,	ch Article	P, Ilavarasan R, Srikanth N. Seasonal assessment of asiaticoside content in Centella asiatica (L.) Urb. by HPLC and pharmacognostical studies to establish its best procurement time. Journal of Drug Research in Ayurvedic Sciences. 2023 Apr 1;8(2):134-42.	Plant Research	2023	care	10.410 3/jdras. jdras_8 4_21 ISSN: 2279- 0357	ARI, Chennai
7	Deepak Kumar	Resear ch Article	Kumar D, Pal S. NMR Relaxation and Diffusion studies to probe the motional dynamics of Risperidone within PLGA microsphere. Magnetic Resonance Letters. 2023; 3(2):197-205	Fundament al Research	May, 2023	Scopu s, Pubm ed, UGC care, Web of Scienc e	doi.org /10.10 16/j.mr 1.2023. 03.005	CARI, Kolkata
8	Arun.M. Gurav	Resear ch Article	Kumar A, Jangid DP, Marimuthu S, Gurav AM, Srikanth N, Mangal AK, Venkateshwarlu B, Shiddamallayya N. Identification and authentication of Agnimantha plant species used in Ayurveda on the basis of anatomical and molecular phylogenetic analysis. Plant Science Today. 2023 Oct 1;10(4):26-38.	Medicinal Plant Research	Octobe r 2023	UGC Care	DOI: 10.147 19/pst ISSN 2348- 1900	
9	Baral B	Resear ch article	Baral B, Saini V, Tandon A, Singh S, Rele S, Dixit AK, et al. SARS-CoV-2 envelope protein induces necroptosis and mediates inflammatory response in lung and colon cells through receptor interacting protein kinase 1. Apoptosis. 2023 Dec;28(11-12):1596-617.	Biochemist ry and Molecular Biology	Decem ber, 2023		https:// doi.org /10.10 07/s10 495- 023- 01883- 9	CARI, Kolkata
1 0	Dr. Rajesh Bolledd u	Resear ch Article	Bolleddu R, Venkatesh S, Narasimhaji CV. Pharmacognostical and phytochemical studies of Atibala (Abutilon indicum [Linn.] sweet) fruit. AYU (An international quarterly journal of research in Ayurveda). 2021 Jul 1;42(3):138-42.	Medicinal Plant Research	12- Apr- 2023	PubM ed Centra 1	DOI:1 0.4103 /ayu.A YU_26 4_20 ISSN: 0974- 8520	CARI Kolkata
1	Dr. Rajesh Bolledd u	Resear ch Article	Nazia Z, Sama V, Rajesh B, VV RB. Pharmacognostical and phytochemical investigation of Olar scandens Roxb.(Dheniaani) stem, stem bark, root and leaf. ARYAVAIDYAN. 2023 July;36(1): 29-42.	Medicinal Plant Research	July - 2023			CARI Kolkata
1 2	Dr. VGM Naidu	Resear ch article	Panda SR, Chaudhari VB, Ahmed S, Kwatra M, Jala A, Ponneganti S, Pawar SD, Borkar RM, Sharma P, Naidu VG. Ambient particulate matter (PM2. 5) exposure	Pharmacolo gy and safety studies	August 2023	Emba se Elsevi er BIOB	10.101 6/j.etap .2023.1 04183.	

S. N.	Name of the Correspo nding author	Туре	Citation of the Research Publication (Research Article)	Discipline	Date of publicat ion (Month & Year)	Indexi ng agency	DOI, ISSN	Name of Institute /Centre
			contributes to neurodegeneration through the microbiome-gut-brain axis: Therapeutic role of melatonin. Environmental Toxicology and Pharmacology. 2023 Aug 1;101:104183.			ASE Scopu s		
1 3	3 ti Das ch Sahu,Saroj Kumar Debnath,Ranjir Ekka,Tushar Kanti Mandal, Babu.A review on Millets(Kshudi Dhanya): Nutritional and healt benefits in life style diseases.J of Ayurveda and He Med (JAHM).2023;11(8):44-57		Clinical research	August 2023	Others	ISSN:2 321- 1563	CARI, Kolkata	
1 4	Debajyo ti Das	Resear ch article	Das D, Bolleddu R, Das M, Sahu D, Mangal AK, Babu G, et al. Pharmacognostical and phytochemical studies of Crotalaria retusa L. (Shanapuspi) roots. J Drug Res Ayurvedic Sci 2023;8:370-6.	Medicinal Plant Research	Octobe r- Decem ber 2023	UGC care	DOI: 10.410 3/jdras. jdras_3 1_23 ISSN:2 279- 0357	CARI, Kolkata
1 5	Dr. Dipsund ar Sahu	Clinic al Resear ch	Dipsundar Sahu1, Saroj K. Debnath2, Debajyoti Das2, Laxmidhar Barik4, Ranjita Ekka5, Suparna Saha6, Tushar K. Madal7, G. Babu8. A Clinical Case Study on Janu Sandhivata (Knee Arthritis) to evaluate the effect of Combined Panchakarma procedure and Internal Traditional Ayurvedic Formulations. Research Journal of Pharmacy and Technology. 2023 DEC; 16 (12); 5901-5905.	Clinical Research	Decem ber, 2023	Others	0974- 3618 (Print) 0974- 360X (online	CARI, Kolkata
1 6	Dr. Dipsund ar Sahu	Resear ch Article	Dipsundar Sahu, Saroj K. Debnath, Debajyoti Das, Laxmidhar Barik, Ranjita Ekka, Suparna Saha, Tushar K. Madal, G. Babu. A Clinical Case Study on Janu Sandhivata (Knee Arthritis) to evaluate the effect of Combined Panchakarma procedure and Internal Traditional Ayurvedic Formulations. Research Journal of Pharmacy and: Technology.2023; 16(12):5901-5. doi 10.52711/0974-360X.2023.00956	Drug Standard ization	2023	Scopu s	Volum e -16	CARI, Kolkata
1 7	Dr.Shakt i Bhushan ,	Resear ch Article	Dipsundar Sahu, Sreya Dutta, Shakti Bhushan, Manosi Das, Susmita Mondal, G. Babu. Phyto- Morphological and Phytochemical Insights: A Comprehensive Study of Hygrophila triflora (Roxb.) Fosb. and Sachet Leaves. Research Journal of Pharmacy and Technology. 2024;	Drug Standard ization	March, 2024	Scopu s	0974- 3618 (Print) 0974- 360X (Onlin e)	CARI, Kolkata

S. N.	Name of the Correspo nding author	Туре	Citation of the Research Publication (Research Article)	Discipline	Date of publicat ion (Month & Year)	Indexi ng agency	DOI, ISSN	Name of Institute /Centre
			17(3):1159-5. doi: 10.52711/0974- 360X.2024.00180					
1 8	Dr. Shakti Bhushan	Revie W Paper	Dr. Amiya Kumar Sahoo, Oluwadare Joshua OYEBODE, Kishor Kumar, Dr Shakti Bhushan, Manjul Singla, Amanpreet Kaur, A Kakoli Rao.(2023) Challenges, impact and integration of machine learning and blockchain technology in the smart healthcare development European Chemical Bulletin ISSN 2063-5346doi: 10.48047/ecb/2023.12.si7.1 252023.16/06/2023	Drug Standard ization	Year- 2023	Scopu s	ISSN 2063- 5346 doi: 10 .48047 /ecb/20 23.12.s i7.125 2023.1 6/06/2 023	CARI, Kolkata
1 9	Dr. Shakti Bhushan ,	Resear ch Article	M. Kushal, S. Yadav, T. Yadav, A.K. Vishwkarma, S. Bhushan, R. Kumar, R.V. Yadav, Pankaj K. Tripathi,(2023) In silico investigation on molecular modeling of tyramine and its deprotonated form, Computational and Theoretical Chemistry, Volume 1226, 2023, 114190, ISSN 2210-271X, https://doi.org/10.1016/j.comptc.202 3.114190	Drug Standard ization	Year- 2023	Scopu s	doi.org /10.10 16/j.co mptc.2 023.11 4190	CARI, Kolkata
2 0	Dr. Saroj Kumar Debnath	Clinic al Resear ch	Saroj Kumar Debnath1*, Dipsundar Sahu1, Debajyoti Das1, Ranjita Ekka1, Tushar Kanti Mandal2, G Babu3. Acceptance of millets in aspects of nutritional profiles, health and environmental benefits. International Journal of Ayurveda and Pharma Research. 2023 Oct; 11 (9); 71-75	Clinical Research	Octobe r, 2023	Others	ISSN: 2322 - 0902 (P) ISSN: 2322 - 0910 (O)	CARI, Kolkata
2 1	Dilip Kumar Maiti	Resear ch Article	Das A, Debnath S, Hota P, Das T, Maiti DK. K2CO3-Catalyzed Dual C-C Coupled Cyclization to 3-Amino-4-benzoplbiphenyls and In Situ I2- Catalysed C-N Bond Forming Annulation: A Metal-Free Synthesis of Arylacridones. The Journal of Organic Chemistry. 2023; 88(18):12986–12996	Fundam ental Research	Septem ber, 2023	Scopu s, Pubm ed, UGC care, Web of Sci.	doi.org /10.10 21/acs. joc.3c0 1010.	CARI, Kolkata
2 2	Dilip Kumar Maiti	Resear ch Article	Das A, Ajarul Sk, Debnath S, Hota P, Maiti DK. Bronsted Acid-Catalysed [5+1] and [4+1] Annulation of Cyclic Anhydrides with o-Alkynyanilines to Construct Fused-N-Heterocycles. The Journal of Organic Chemistry. 2023; 88(21):15073–15084	Fundam ental Research	Octobe r, 2023	Scopu s, Pubm ed, UGC care, Web of Sci.	doi.org /10.10 21/acs. joc.3c0 1525.	CARI, Kolkata
3	Dr. Sarada Ota	Clinic al Resear ch	Renu Singh1, Lalita Sharma1, Sarada Ota2, Bharti Gupta3, Richa Singhal4, Rakesh Rana5, Saketh Ram Thrigulla6, Vinod Kumar	Clinical Research	Novem ber, 2023	Others	ISSN: 0974- 8520; Online ISSN:	CCRAS Hqrs. New Delhi

S. N.	Name of the Correspo nding author	Туре	Citation of the Research Publication (Research Article)	Discipline	Date of publicat ion (Month & Year)	Indexi ng agency	DOI, ISSN	Name of Institute /Centre
			Lavaniya1, Deepa Makhija2, Sakshi Sharma7, Pawan Kumar Godatwar8, Meera K. Bhojani9, Santhosh S. R. Nair10, Vaishali Mali11, Arjun Singh Baghel12, Shalinee Kumari Mishra13, Bhuvnesh Sharma14, Monika15, Banamali Das16, Sudhanshu Kumar Meher17, Manohar S. Gundeti18, Sneha Marlewar18, Avvaru Jaivenkata Sai Prasad19, Sujata Dhoke19, Rohit Kumar Ravte20, Dipsundar Sahu21, Shivakumar S. Harti22, Mahesh Vyas23, Narayanam Srikanth24, Adarsh Kumar25, Kartar Singh Dhiman26. Development of a standardized assessment scale for assessing Prakriti (psychosomatic constitution). AYU (An International Quarterly Journal of Research in Ayurveda).				0976- 9382	
2 4	Manosi Das	Resear ch Article	Das M, Debnath S, Bolleddu R, Dey RK, Mondal S, Banerjee A, et al. Phyto-Pharmacognostical Evaluation with HPTLC finger printing profiling, UV-Spectral analysis and antioxidant activity on Crotalaria retusa L. Leaf Extracts. Journal of Emerging Technologies and Innovative Research. 2023; 10(12):a164-a173.	Drug Standard ization	Dece mber, 2023	UGC care	DOI: 10.608 4/m9.j etir.JE TIR23 12025	CARI, Kolkata
2 5 .	Giriraj Tailor	Resear ch Arti	Giriraj Tailor, Muhammad Tukur Mukhtar, Ahmad Nasir Labaran, Alhassan Muhd Garba, Ya'u Datti, Saurabh Singh, Deepak Kumar, Jyoti Chaudhary; Green synthesis of iron nanoparticles using Mangifera indica leaves extract: phytochemical analysis and characterizations, for environmental remediation of pollution. Nanotechnol. Environ. Eng. 9, 77–84 (2024).	Fundam ental	Dece mber 2023	Scopu s, Pubm ed, Web of Scienc e	10.100 7/s412 04- 023- 00353- 6	
6	Dr. Jyoti Dahiya	Resear ch Arti	Dahiya J, Bolleddu R, Dutta S, Kumar D, <i>et al.</i> Systematic Extraction Studies for High Recovery of Catechin from <i>Saraca asoca</i> (Roxb.) Willd. Seeds Following Analytical Quality by Design (AQbD) <i>JETIR</i> 2023; 10 (12): b197-b209.	Medicin al Plant Research	05- 12- 2023	UGC care	ISSN: 234951 62	CARI, Kolkata

S. N.	Name of the Correspo nding author	Туре	Citation of the Research Publication (Research Article)	Discipline	Date of publicat ion (Month & Year)	Indexi ng agency	DOI, ISSN	Name of Institute /Centre
7	Dr. Jyoti Dahiya,	Resear ch Article	Dahiya J, Kumar D, Adhikari S, Ghosh D, Bolleddu R, Dutta S, Mall S, Hazra K, Mangal AK, Babu G. Evaluation and documentation of the botanical, chemical, and antioxidant changes during the sprouting of Bajra seeds. Journal of Drug Research in Ayurvedic Sciences. 2023 Oct 1;8(4):377-88.	Medicin al Plant Research	20- 12- 2023	UGC care	DOI: 10.410 3 ISSN: 2279- 0357	CARI, Kolkata
2 8	Dr. Rajesh Bolledd u	Resear ch Article	Venkatesh S, Bolleddu R, Shivani Y, Alvala RK, Zareen N. Pharmacognostical, Phytochemical, In vitro Hypoglycemic Studies of Avartani (Helicteres isora L.) Root and Fruit Extracts. Journal of Ayurveda. 2024 Jan 1;18(1):5-13.	Medicin al Plant Research	Janua ry, 2024	UGC care	DOI: 1 0.4103	CARI, Kolkata
2 9	Manosi Das	Resear ch Article	Mondal S, Das M, Debnath S, Babu G. Rationalization of Hydroalcoholic Extract of Acorus calamus (Rz) in Respect of its Marker Compound Present in-Through Quantitative HPTLC study. International Journal of Research and Analytical Reviews. 2024; 11(1):304-309.	Drug Standard ization	Febr uary, 2024	UGC care	E- ISSN 2348- 1269, P- ISSN 2349- 5138)	CARI, Kolkata
3 0	Dr. Sharad D Pawar	Revie W article	Gayakwad S, Shirolkar A, Dixit A, Gaidhani S, Pawar S. Critical Appraisal of Nothapodytes nimmoniana (J. Graham) Mabb. Extraction Methods, Pharmacological Activities, and Future Prospects. Pharmacognosy Magazine. 2024 Mar 25:09731296241234113.	Pharmac ology and safety studies	Marc h, 2024	Clariv ate Analy tics: Scienc e Citati on Index	10.117 7/0973 129624 123411 3	CARI, Kolkata
3 1	Dr. Amit Kumar Rai	Clinic al Resear ch	Dipsundar Sahu1, Taposi Borah2, Alok Srivastava3, Shruti Khanduri4, Amit Kumar Rai4, Sudhanshu K. Meher5, Dinesh Baruah2, Krishna K. Singh6, Richa Singhal7, Rakesh Rana4, Bhagwan S. Sharma4, Sulochana Bhat8,Bharti9, Narayanam Srikanth4, Madan M. Padhi10, Kartar S. Dhiman11. Vatari Guggulu, Hingvashtaka Churna, and Brihat Saindhavadya Taila in the management of rheumatoid arthritis: An open-label, prospective, singlearm multi-center study. Journal of Research in Ayurvedic Sciences. 2024 MAR; 8 (1); 12-19	Clinical Research	11- Mar- 2024	Others	2456- 5601, online- 2581- 9895	CARI, Kolkata

S. N.	Name of the Correspo nding author	Туре	Citation of the Research Publication (Research Article)	Discipline	Date of publicat ion (Month & Year)	Indexi ng agency	DOI, ISSN	Name of Institute /Centre
3 2	Kalyan Hazra	Resear ch Article	Hazra K, Kumar D, Debnath S, Mondal S, Batule M, Dutta S, et al. Dynamicity and extractability of hydro-alcoholic solvents for Tinospora cordifolia stem: an investigation for target-oriented traditional drug discovery based on biologically active phytocompounds, Vegetose. 2024.	Drug Standard ization	Marc h, 2024	Scopu s, Pubm ed, UGC care, Web of Sci.	doi.org /10.10 07/s42 535- 024- 00835- 1	CARI, Kolkata
3 3	Dr. Shakti Bhushan	Clinic al Resear ch	Dipsundar Sahu1, Sreya Dutta2, Shakti Bhushan3, Manosi Das4, Susmita Mondal5, G. Babu6. Phyto-Morphological and Phytochemical Insights: A Comprehensive Study of Hygrophila triflora (Roxb.) Fosb. and Sachet Leaves. Research Journal of Pharmacy and Technology. 2024 MAR; 17 (3); 1-7	Drug Standard ization	Marc h, 2024	SCOP US	0974- 3618 (Print) 0974- 360X (online	CARI, Kolkata
3 4	Dr. Anushri Urkude	Resear ch article	Urkude AS, AcharyaRN, Pawar SD, Patel BR, Alam Q. In Silico Evaluation of Bioactive Compounds from Gokshura (Tribulus terrestris L.) and Punarnava (Boerhavia diffusa L.) for their Nephroprotective Activity in Chronic Kidney Disease and Related Complications. Toxicology International	Pharmac ology and safety studies	Acce pted	Scopu s, UGC	Online ISSN: 0976- 5131 Print ISSN: 0971- 6580	CARI, Kolkata
3 5	Dr. Sharad D Pawar	Resear ch article	Chavan P, Danane T, Sharbidre A, Pawar S, Jadhav A, Jagtap S. Diosgenin Mitigates Aluminum Chloride Mediated Developmental Toxicity in Drosophila melanogaster. Toxicology International.	Pharmac ology and safety studies	Acce pted	Scopu s, UGC	Online ISSN: 0976- 5131 Print ISSN: 0971- 6580	CARI, Kolkata
3 6	Dr. Deepak Kumar	Revie W Article	Deepak Kumar, Kalyan Hazra, Peyyala Venkata Vara Prasad, Rajesh Bulleddu; Honey: An important nutrient and adjuvant for maintenance of health and management of diseases. Journal of Ethnic Foods 2024.	Drug Standard ization	Acce pted (Mar ch 2024)	Scopu s, UGC, Pubm ed, Web of Sci.	ISSN: 2352- 619X	CARI, Kolkata

$Submission \ of \ Information \ for \ Book/Monograph \ published \ for \ the \ year \ 2023-24 \ (April, \ 2023 \ to \ March, \ 2024)$

S. N.	Correspon ding author	Type of Publicat ion	Citation of the Research Publication (Book Chapter/Papers in Seminar proceedings)	Discipli ne	(Month & Year)	ISBN	Name of Institute/ Centre
1	Dr. B. K. Sarkar	Book Chapte r	Dr.B.K. Sarkar (2023) phytopharmaceuticals and herbal drugs: Prospects and Safety Issues in the Delivery of Natural Products. pp-215-248. ISBN: 978-0-323-99125-4	Drug Stand ardiza tion	2023	ISBN: 978-0- 323- 99125- 4	CARI, KOLKAT A
2	Dr. Suparna Saha	Book Chapte	Shakti Bhushan, Rashmi Gupta, Dr.Suparna Saha,Anand Kumar Chaudhary.(2023). Herbal	Drug Stand	2024	ISBN: 978-	CARI, KOLKAT

		1	T =		1		
		r	Drugs In The Global Market: A Growing Trend Towards Natural Healthcare Solutions.IIP series Futuristic Trends in Herbal Medicines and Food Products ISBN: 978-93-5747-680-5	ardiza tion		93- 5747- 680-5.	A
3	Dr. Shakti Bhushan	Book Chapte r	Shakti Bhushan,Rashmi Gupta,Suparna Saha,Anand Kumar Chaudhary(2023) Herbal Drugs In The Global Market: A Growing Trend Towards Natural Healthcare Solutions IIP series,Futuristic Trends in Herbal Medicines and Food Products ISBN: 978-93-5747-680-5	Drug Stand ardiza tion	2024	ISBN: 978- 93- 5747- 680-5	CARI, KOLKAT A
4	Dr. Deepak Kumar	Book chapter	Kumar D, Debnath S, Hazra K, Dahiya J. Modern Analytical Techniques Used For The Identification Of Bioactive Molecules, Futuristic Trends in Herbal Medicines and Food Products, Iterative International Publishers (IIP), Vol. 3, 2023, ISBN: 978-93-5747-680-5	Drug Stand ardiza tion	2024	978- 93- 5747- 680-5	CARI, Kolkata
5	Dr. M. Kalyankum arraju	Book chapter	Molecular mechanism of bioactive compounds; Futuristic Trends in Herbal Medicines and Food Products, Iterative International Publishers (IIP), Vol. 3, 2023, ISBN: 978-93-5747-680-5	Drug Stand ardiza tion	2024	978- 93- 5747- 680-5	CARI, Kolkata
6	Dr. Sudipto Debnath	Book chapter	Debnath S, Kumar D, Das M, Mondal S, Babu G. Extraction Methods Of Bioactive Compounds From The Plants. Futuristic Trends in Herbal Medicines and Food Products, Iterative International Publishers (IIP), Vol. 3, 2023, ISBN: 978-93-5747-680-5	Drug Stand ardiza tion	2024	978- 93- 5747- 680-5	CARI, Kolkata
7	Dr. A. K. Dixit	Book Chapte r	Nair PG, Nair PP, Dixit AK. The Importance and Scope of Medicinal Plants Suggested in Traditional Medicine in the Holistic Care of Occupational Lifestyle Disorders with Special Mention to Insulin Resistance Associated Clinical Syndromes. In: Dhara AK, Mandal SC, editors. Role of Herbal Medicines: Management of Lifestyle Diseases [Internet]. Singapore: Springer Nature Singapore; 2023. 13–32.	Bioch emistr y and Molec ular Biolo gy	Febru ary 2024	https://doi.org/10.1007/978-981-99-7703-1_2	CARI, Kolkata
8	Dr. A. K. Dixit	Book Chapte r in Elsevie r	Natural Products from Selected Medicinal Plants as Potential Therapeutics in Alzheimer's Disease" in Book entitled "Studies in Natural Products Chemistry" (Bioactive Natural Products). (Elsevier) Parvathy G. Nair, Amit Kumar Dixit, Deepti Dixit, Dara Singh Rotwar, Mukesh Kumar Sharma	Bioch emistr y and Molec ular Biolo gy	Accep ted		CARI, Kolkata
9 .	Anupam. K. Mangal(Edi torial expert), Manosi Das, Rajesh Bolleddu and Sreya Dutta (one of the contributors)	Monog raph	Srikanth N. (Chief Editor); Anupam.K. Mangal, Ravindra Singh, B. Venkateshwarlu and Shiddamallayya N. (Editors); Kamleshwar Singh, Asish K. Triupathi, Heena Jindal and Saveena Chauhan (Associate editors) Quality Standard of selected Medicinal Plants, Volume-I, CCRAS, Ministry of AYUSH, New Delhi, 2023: Vol. I	Medic inal Plant Resea rch	2023		CARI, Kolkata
1 0 .	Dr. B. K. Sarkar,	Book	Dr. Lalchand D Devhare, Prof.vedanshu R. Malviya, Savita Shrikant Deokar, Dr. B.K. Sarkar, Mangala Nand Singh (2023) A TEXT BOOK OF NOVEL DRUG DELIVERY	Drug Stand ardiza tion	Octob er, 2023	ISBN: 978- 93- 5747-	CARI, Kolkata

			SYSTEMBACHELOR OF PHARMACY- FINAL YEAR (VII SEMESTER)			962-2	
1 1	Dr. B. K. Sarkar	Book Publish ed	Dr. B. k. Sarkar(2023)A TEXT BOOK OF INDRUSTIAL PHARMACY-I	Drug Stand ardiza tion	Januar y, 2024	ISBN: 97893- 5735- 735-7	CARI, Kolkata
1 2 .	Anupam.K. Mangal (Editorial expert)	Monog raph	Srikanth N.; A.M. Gurav, Soma N. Murthy (Investigator); A.K. Mangal , B. Venkateshwarlu, Shiddamallayya N., Chinmay Rath (Editorial expert); Kamleshwar Singh, Asish K. Triupathi, Heena Jindal, Rekha B. Nirawane (Technical Medicinal Plant Research support), Agrotechniques of Selected Medicinal Plants: <i>Gokshura- Tribulus terrestris</i> L., CCRAS, Ministry of AYUSH, New Delhi, 2023: Vol. II.	Medic inal Plant Resea rch	02- 03- 2024		CARI, Kolkata
3	Dr. B. K. Sarkar	Book	Dr V. RamaMohan Gupta, Dr.L.Matsyagiri,Ms Vadi Ranjan, Dr. C.S. Kandasamy, Dr. Biresh Kumar Sarkar,(2023) A COMPREHENSIVE TEXT BOOK FOR HERBAL DRUG TECHNOLOGY	Drug Stand ardiza tion	03.04. 2024	ISBN: 978- 93- 6087- 9242	CARI, Kolkata

Submission of Information for Research outcomes presented in Seminar/ Workshop/ Conference for the year 2023-24 (April, 2023 to March, 2024)

S. N.	Name of the Author (S)	Title of the paper presented	Name of the conference/Se minar/ Webinar/Wor kshop	Name of the organizer and venue	Date of the event	Name of the Institute / Centre
1.	Kalyan Hazra	Scientific Validation of Ayurvedic Principle and Practices through Modern Chemical Investigations.	International Hybrid Seminar on "AYUSH: Advancement & Scope in Bengal"	Independent Research Ethics Society (IRES)	24 th June 2023	CARI, Kolkata.
2	Dr. Debajyoti Das	Role of Millets in life style diseases	Preventions of Lifestyle Disorders through Ayurvedic Interventions by incorporating Millets	CARI, Kolkata. Venue: Anthropologica l Survey of India, Bidhannagar, Kolkata.	27.06.2023 & 28.06.2023	CARI, Kolkata.
3	Dr. Suparna Saha	Millets for Health: Nutritional Treasures for a Balanced Diet	Preventions of Lifestyle disorders through Ayurvedic Interventions by incorporating Millets	CARI, KOLKATA	27/06/2023 - 28/06/2023	CARI, KOLKATA
4	Dr. Shakti Bhushan	Powering Health Economics With Nutritional Wealth: A Comprehensive Review.(Awarded 2 nd Position for Oral	Preventions of Lifestyle disorders through Ayurvedic Interventions by incorporating	CARI, KOLKATA	27/06/2023 - 28/06/2023	CARI, KOLKATA

		Presentation)	Millets			
5	Dr, Susmita Roy	Effect of millets on gut microbia	National Seminar Preventions of Lifestyle disorders through Ayurvedic Interventions by incorporating Millets	CARI, KOLKATA	28 th June 2023	CARI, KOLKATA
6	Dr. Deepak Kumar	Physico-chemical, Functional and Anti- nutrients Characteristic of Millets.	National Seminar Preventions of Lifestyle disorders through Ayurvedic Interventions by incorporating Millets	CARI, KOLKATA	28 th June 2023	CARI, KOLKATA
7	Dr. G. Babu ¹ , Dr. D.S. Sahu ² ,	Role of AYUSH 82 to combat metabolic disorders and associated pathological complications".	"Role of Medicinal plants to combat metabolic disorders and associated pathological complications"	School of Natural Product Studies (SNPS) Jadavpur University, Kolkata, India	June 30 – July 01, 2023	CARI, Kolkata
8	Dr. Dipsundar Sahu 1 , Dr. G. Babu 2	Anti-obesity and hypolipidemic drugs (Medohara and Lekha niya dravyas) in Ayurvedic classics: A critical review.	"Role of Medicinal plants to combat metabolic disorders and associated pathological complications"	School of Natural Product Studies (SNPS) Jadavpur University, Kolkata, India	June 30 – July 01, 2023	CARI, Kolkata
9	Rajesh Bolledu, Jyoti Dahiya, Sreya Dutta, Simmi Mall, Anupam K. Mangal & G. Babu	Phytochemical standardization and Anti-Diabetic activity of various extracts of Abutilon indicum fruit	"Role of Medicinal plants to combat metabolic disorders and associated pathological complications"	School of Natural Product Studies (SNPS) Jadavpur University, Kolkata, India	June 30 – July 01, 2023	CARI, Kolkata
10	Sreya Dutta, Jyoti Dahiya, Rajesh Bolledu, Anupam K. Mangal, Simmi Mall & G. Babu	Establishment of Botanical and Phytochemical Standards for Quality Assessment of Linum usitatissimum L., an oil-based seed	"Role of Medicinal plants to combat metabolic disorders and associated pathological complications"	School of Natural Product Studies (SNPS) Jadavpur University, Kolkata, India	June 30 – July 01, 2023	CARI, Kolkata
11	Jyoti Dahiya, Deepak Kumar, Rajesh Bolledu, Sreya Dutta, Simmi Mall, Kalyan Hazra, Anupam K. Mangal, & G. Babu	Comparative chemical and antioxidant studies of stem bark and renewal aerial plant parts of Saraca asoca (Roxb.) Willd. followed by similarity analysis	"Role of Medicinal plants to combat metabolic disorders and associated pathological complications"	School of Natural Product Studies (SNPS) Jadavpur University, Kolkata, India	June 30 – July 01, 2023	CARI, Kolkata

12	Kalyan Hazra	Online invited lecture on the topic "Ayurveda the ancient wisdom, in light of modern instrumentations	Vishwa Ayurveda Parishad West Bengal Chapter	Vishwa Ayurveda Parishad West Bengal Chapter	11 th July 2023	CARI, Kolkata
13	Anupam K. Mangal Jyoti Dahiya & G. Babu	Establishment of best season for certain medicinal herbs by analyzing the seasonal variation in bioactive secondary metabolites following marker based analysis in HPLC	National conference on Future of Agriculture and Agriculture for Future Indian Perspective	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir.	4-6 September, 2023	CARI, Kolkata
14	Dr. Dipsundar Sahu	"Role of Ayurveda in Prevention & Control of Lifestyle Disorders".	Lifestyle Disorders and Ayurveda (ALIFE 2023)	West Bengsl Ayurvedic Chikitsak Samity, Bhasha Bhaban, National Library, Alipur	26-27 November, 2023	CARI, Kolkata
15	Dr. A. K. Dixit (Co author)	Therapeutic potential of ayurvedic formulation in the management of Propylthiouracil induced hypothyroidism in rats: A pre- clinical approach	5 th Global Ayurveda Festival	Greenfield Stadium, Thiruvananthap uram, Kerala	01 th - 05 th December, 2023	CARI, Kolkata
16	Ms. Manosi Das	Aspects of Chemistry and Biological Activities of Coumarinolignoids – A Rare Group of Natural Products	Trends in Biomedical Research: advances and challenges Conducted By: CCRAS-CARI, Kolkata	CCRAS-CARI, Kolkata	29 th and 30 th January of 2024	CARI, Kolkata
17	Mr. Kalyan Hazra	Application of multiple development/gradient Thin Layer Chromatography (TLC) in determination of lipids in blood serum	Trends in Biomedical Research: advances and challenges Conducted By: CCRAS-CARI, Kolkata	CCRAS-CARI, Kolkata	29 th and 30 th January of 2024	CARI, Kolkata
18	Dr. Rajesh Bolleddu	Recent advancements and methodologies for <i>in vitro</i> evaluation of Antidiabetic activity	Trends in Biomedical Research: advances and challenges Conducted By: CCRAS-CARI, Kolkata	Central Ayurveda Research Institute	29 th and 30 th January of 2024	CARI, Kolkata
19	Susmita Roy , Ayan Samaddar ,	Endophytes: A critical overview on its biological	Trends in Biomedical Research:	Central Ayurveda Research	29 th and 30 th January of	CARI, Kolkata

	Sreya Dutta , Shuvadip Sarkar , Deepak Kumar , Anupam K Mangal , Amit Kumar Dixit	potential by	advances and challenges Conducted By: CCRAS-CARI, Kolkata	Institute	2024	
20	Dr. Deepak Kumar	Nuclear Magnetic Resonance investigation of the structural and dynamic properties of various anticancer drug loaded drug delivery systems	Trends in Biomedical Research: advances and challenges Conducted By: CCRAS-CARI, Kolkata	CCRAS-CARI, Kolkata	29 th and 30 th January of 2024	CARI, Kolkata
21	Dr. Suparna Saha	Pharmaceutical, analytical and experimental studies of Madhumehavinashini vatika and trivanga bhasma on streptozotocin induced diabetes mellitus in albino rats	Trends in Biomedical Research : Advances and Challenges	CARI, KOLKATA	29/01/2024 - 30/01/2024	CARI, KOLKATA
22	Dr. Shakti Bhushan	Recent Advances of Mercury in Therapeutic Use in Ayurvedic drug Preparation (Awarded Best Oral Presentation)	Trends in Biomedical Research : Advances and Challenges	CARI, KOLKATA	29/01/2024 - 30/01/2024	CARI, KOLKATA
23	Dr. Malayamaruth am Kalyankumarr aju ,	Research article	Alternative methods to Animal testing for Quality control of Pharmaceuticals: Advantages, Challenges and Regulatory perspective.by Malayamarutham Kalyankumarraju, Sharad. D.Pawar, Amit Kumar Dixit, G. Babu	Trends in Biomedical Research: advances and challenges Conducted By: CCRAS-CARI, Kolkata	29 th and 30 th January of 2024	CARI, Kolkata
24	Dr. Sudipto Debnath	Multifold C–C Coupling and Unorthodox Cyclization Catalysis for Selective Synthesis of Indolotriarylmethanes , Indolocarbazoles, and Their Analogues: A Control Experiment Study	Trends in Biomedical Research: advances and challenges Conducted By: CCRAS-CARI, Kolkata	CCRAS-CARI, Kolkata	29 th and 30 th January of 2024	CARI, Kolkata
25	Dr. Susmita	С-Н	Trends in	CCRAS-CARI,	29 th and	CARI,

	Mondal	Functionalization Of Imidazoheterocyles Towards Biologically Active Compound	Biomedical Research: advances and challenges Conducted By: CCRAS-CARI, Kolkata	Kolkata	30 th January of 2024	Kolkata
26	Ranjit Kumar Dey, Amit Kumar Dixit, Smarto Basak , Mortaja Hossain	Quality Management in clinical chemistry laboratory – A brief overview	Trends in Biomedical Research: advances and challenges Conducted By: CCRAS-CARI, Kolkata	Central Ayurveda Research Institute	29 th and 30 th January of 2024	CARI, Kolkata
27	Ayan Samadder, Kalyan Hazra , Susmita Roy , Amit Kumar Dixit, G. Babu	Evaluation of antibacterial effect of essential oil isolated from <i>Iris kashmiriana</i>	Trends in Biomedical Research: advances and challenges Conducted By: CCRAS-CARI, Kolkata	Central Ayurveda Research Institute	29 th and 30 th January of 2024	CARI, Kolkata
28	Smarto Basak , Amit Kumar Dixit , Ranjit Kumar Dey , Sanjay Kumar YR , G Babu	Models of Polycystic Ovarian Syndrome in Rodents: A Mechanistic Review	Trends in Biomedical Research: advances and challenges Conducted By: CCRAS-CARI, Kolkata	Central Ayurveda Research Institute	29 th and 30 th January of 2024	CARI, Kolkata
29	Dr. Debajyoti Das	Adverse Drug Reactions of Ayurvedic Medicines	Seminar on Pharmacovigilanc e programme initiative for ASU &H Drugs under the Central Sector Scheme of Ayush Oushadhi Gunvatta Evum Utpadan Samvardhan Yojana (AOGUSY)	CARI, Kolkata Venue: Rajib Gandhi Memorial Ayurvedic Colleghe & Hospital, Belley sankarpur, Kushdanga, North 24 Pgs.	31.01.2024	CARI, Kolkata.
30	A.K. Mangal, Rajesh Bolleddu, Jyoti Dahiya and G. Babu	"Evaluation of the best procurement time for certain medicinal herbs through HPLC & HPLC & it's comparative pharmmacognosy"	3 rd Indian Horticultural Summit-cum- International Conference 2024	Society for Horticultural Research andDevelopme nt, Uttar Pradesh at Rajasthan Agricultural Research Institute (SKNAgricultur e University, Jobner), Jaipur, Rajasthan, India	1-3 February, 2024.	CARI, Kolkata
31	Dr. Debajyoti Das	ADR reporting and Misleading	Seminar on"BADHAN	organized by National	25.02.24	CARI, Kolkata.

		adevertisements in AYUSH Pharmacovigilance Programme	PRATISEDH"	Ayurveda Students & Youth Association (NASYA), W.B. Venue: Dharmatala, Bankura, W.B.		
32	Rajesh Bolleddu, A.K. Mangal, Sreya Dutta, Jyoti Dahiya, Simmi Mall and G. Babu	"In vitro anti Diabetic and high performance thin layer chromatography studies of <i>Abutilon indicum</i> (L.) Sweet leaves and Fruits"	Role of Medicinal Plants to ameliorate Diabetes and Related Disorders	School of Natural Product Studies, Jadavpur University	March 8-9, 2024	CARI, Kolkata
33	Dr. Debajyoti Das	Reporting of ADR and Misleading adevertisements in Ayurveda.	National Seminar on Ayush Pharmacovigilanc e through online virtual mode.	National Ayurveda Students & Youth Association (NASYA), W.B. Venue: Kharagpur Homeopathic Medical College & Hospital, W.B.	22.03.24	CARI, Kolkata.
34	Dr. Debajyoti Das	Awareness programme on swachhata & brief activities on swachhata during financial year	Attended and delivered lecture as chairman of Swachhata Action Plan & Cleanliness Programme.	CARI, Kolkata	23.03.24	CARI, Kolkata.
35	Dr. Debajyoti Das	ADR reporting and Misleading adevertisements in Ayurveda	Seminar on AYUSH Pharmacovigilanc e sensitization Programme	Jointly organized by CARI, Kolkata and NASYA W.B.	27.03.2024	CARI, Kolkata.

III.3 Seminar/Conference/Workshop/Training/Meetings organized by the Institute:

S.N.	Name of the event	Venue	Date
	One day workshop on Importance of millets and their	CARI Kolkata	20 th May, 2023
1.	Nutritional and medicinal uses in daily life.		
2.	4 th Meeting of the Project Evaluation Monitoring	CARI, Kolkata	16 th June, 2023
	Committee (PEMC), under the Chairmanship of Prof. Vd.		
	Rabinarayan Acharya, Director General, CCRAS. Mr.		
	Rajkumar, Director, IFD, Ministry of Ayush, New Delhi,		
	Sh. Deepak Kochhar, Deputy Director (Admn.), CCRAS,		
	New Delhi, Dr. G. Babu, Director, CARI, Kolkata along		
	with PEMC members, Programme Officers from CCRAS		
	hqrs and Officers from CARI, Kolkata were present in the		
	meeting.		
3.	Two days National Seminar on Preventions of Lifestyle	Anthropological	27 th & 28 th June,
	Disorders through Ayurvedic Interventions by incorporating	Survey of India,	2023
	Millets.	Kolkata	
4.	Four days refresher training on experimental animal	CARI Kolkata	1 st -4 th August,
	histopathology for CCRAS scientists.		2023

5.	One day brainstorming session on Strategy & approach for characterization of complex botanicals of multi-ingredients (ASU) / Ayush Aahaar to ascertain the quality and authenticity.	CARI Kolkata	29 th August 2023
6.	Two days national seminar on Trends in Biomedical	CARI Kolkata	29 th -30 th January
	Research: Advances and Challenges.		2024
7.	Pharmacognostical studies training as a subject of	CARI Kolkata	28 th December
	Homeopathic Pharmacy for the students of NIH, Kolkata.		2023 to 31^{st}
			March 2024
8.	One day Pharmacovigilance sensitization Programme with	CARI Kolkata	26 th March 2024
	NASYA West Bengal.		

III.4. Organized Arogya/Mela/Exhibition/Camp/Others:

	III.4. Organized Arogya/Mela/Exhibition/Camp/Others:				
S. N.	Name, date and place of event				
1.	A Free Health Checkup Camp and awareness program on the theme of "Health & Wellness" under "Azadi ka Amrit Mahotsav 2.0" was conducted by CARI Kolkata at Rotary Club of Bolpur Rangamati, Bolpur, District Birbhum, West Bengal on 06.08.23 and 07.08.23.				
2.	CARI Kolkata has organized routinely awareness program under the celebration of International Year of Millets 2023				
3.	Under Mission LiFE Campaign, on the occasion of World Environment Day, Dr. G Babu, Director and Dr D.S. Sahu and Dr. Suparna Saha delivered lectures on "Love to Breath, Save the Trees" to the Staff & general public. More than 100 participants were made aware of the importance of protecting the environment and planting the trees				
4.	Under Mission LiFE Campaign, on the occasion of World Environment Day, Dr. G Babu, Director, Dr. A. K. Mangal, Asst Director, and Dr T.K. Mandal Asst. Director delivered lectures on "How To Save Energy, Water, And How To Maintain An Environment In OPD" to the Staff & general public.				
5.	Under Mission LiFE Campaign an awareness lecture was conducted at the village level by Dr Debajyoti Das and Dr. Sunayan Samanta from CARI Kolkata at Uttar Pratap Nagar, S 24 Pargana on "Save Environment, Save Life".				
6.	CARI Kolkata, organized various awareness campaigns such as a painting competition for children, medical camp, and awareness lectures on 31 st May 2023 on the occasion of World Environment Day 2023 at New Colony Sporting Club, Panihati, 24, North Pargana.				
7.	On the occasion of World Environment Day 2023 A medical camp was organized at Paschim Radhanagar, South 24 Pargana by Dr. Ranjita Ekka R.O (Ayurveda).				
8.	AYUSH Awareness Programme'(Ayush Fair) at Jhargram, West Bengal from 18.01.2024 to 20.01.2024				
9.	Pharmacovigilance Awareness Program was held on 14.08.23 at Central Ayurveda Research Institute, Kolkata				
10.	Pharmacovigilance Awareness Program was held on 22.08.23 at Central Ayurveda Research Institute, Kolkata				
11.	Programme of Rashtriya POSHAN MAAH 2023 with theme SUPASHIT BHARAT, SAKSHAR BHARAT, SASHAKT BHARAT at OPD premises on 06.09.2023				
12.	In observance Poshan Maah 2023, an awareness campaign was conducted at Orancha Free Primary School, 24 pargana. Activities included the distribution of plants, a painting competition, and the distribution of Poshan Kits on September 16, 2023.				
13.	In observance of Poshan Maah 2023, an awareness campaign was conducted at Andulguri Primary School, Kapasati, Kolkata. Activities included the distribution of plants, a painting competition, and the distribution of Poshan Kits on September 29, 2023.				
14.	CARI, Kolkata organized the "Ayush vyanjan mahotsav" (Ayush food festival) competition with a focus on millet recipes. The event was held on 4 th November 2023 guided by Dr. G. Babu, with Prof. B. C. Jana as the chief guest.				
15.	CARI, Kolkata organized "Run for Ayurveda" event graced by the presence of His Excellency,				

S. N.	Name, date and place of event				
	the Honorable Governor of West Bengal, Shri CV Ananda Bose. Professor (Vaidya)				
	Rabinarayan Acharya, Director-General, CCRAS and Mr. Debashish Biswas, an accomplished				
	Everest mountaineer and Arjuna Awardee, were the honored guests.				

III.5. Radio and Doordarshan programme participated:

S.N.	Name of the	Title of the topic	Name of the	Date
	person		organizer / venue	
01	Dr. Dipsundar Sahu	"AYUSH VYANJAN	All India Radio	04.11.2023
		MAHOTSAV" (AYUSH food		
		festival) on the eve of 8 th		
		Ayurveda Day		

III.6. Invited Lectures/Guest participations/Oral presentation:

S.	Presenter	Subject/Topic	Organizer	Date
N.	Ticsenter	Resource person in 6 day		
1.	Dr A.K. Mangal	CME program on "Dravyaguna- Basics to Advancement"	RARI, Pune	7 th - 12 th August 2023.
2.	Dr. Amit Kumar Dixit	Recent Advances and Regulatory Requirements in Drug Development	Assam down town University, Guwahati , through Video Conferencing	18 th August, 2023
3.	Dr. Amit Kumar Dixit	"Scope & Potential of Startups in Ayurveda, UNANI & Nutraceuticals: Indian & Global Perspective"	Avishkaran NIPER, Hyderabad through Video Conferencing	12 th September, 2023
4.	Dr. Amit Kumar Dixit	Research in Ayurveda: Scope and Perspectives	Presidency University, Kolkata	13 th September, 2023
5.	Dr. Amit Kumar Dixit	Chief guest lecture for "Hindi Pakhwada -2023" organized by Central Hindi Training Institute at, Nizam Palace Kolkata on	Central Hindi Training Institute Kolkata	18 ^h September, 2023
6.	Dr. G. Babu	Chief Guest lecture at Ninth Foundation Oration 2023 by Professor Asima Chatterjee Foundation Kolkata.	Meghnad Saha Auditorium, Kolkata	22 nd September 2023
7.	Dr. Biresh Kumar Sarkar	Guest lecture on the occasion of "World Pharmacist Day"	Adamas University, Barasat, Kolkata	25 th September 2023
8.	Dr. Amit Kumar Dixit	Chief guest lecture in "Hindi Mahotsav-2023"	ISRO, Kolkata	29 th September, 2023
9.	Dr. G. Babu	Guest lecture in International Conference "AdtU Pharmacon 2.0, organized by the faculty of Pharmaceutical Science"	Assam Down town University, Gawhati	13 th & 14 th October 2023

S. N.	Presenter	Subject/Topic	Organizer	Date
10.	Dr. G. Babu	Guest lecture in National Seminar on Life style Disorders in Ayurveda.	Paschimbanga Ayurveda Chikitsa Samity and Govt. Ayurvedic Doctors Association at National Library, Kolkata.	26 th November 2023
11.	Dr. G. Babu	Guest lecture in 3 rd International conference and byers and sellers meet on Medicinal plants used in Life style Products.	Jadavpur University, Kolkata	6 th to 8 th December 2023
12.	Dr. G. Babu	Chief Guest lecture in the inaugural ceremony of the 2-day International Conference Healthcare Next: 2K24 on The theme "Focused on Transformations in Healthcare Research Prospects, Challenges, and Sustenance".	Gitam University, Visakhapatnam	1 st - 2 nd February 2024
13.	Dr. Amit Kumar Dixit	Research funding and opportunities in India	UGC-MMTTC, Jodhpur, Rajasthan, through Video Conferencing	8 th February,2024
14.	Dr. G. Babu	Presented R&D activities and achievements of CCRAS Institutes	In Regional Review meeting of "National Ayush Mission" of Bihar, Chhattisgarh, Jharkhand, Madhya Pradesh, Orissa, Uttar Pradesh & West Bengal states held under the chairmanship of Sh. Sarbanada Sonowal, Hon'ble Union Minister of Ayush, Govt. of India at Hotel Chanakya, Patna.	15 th February 2024
15.	Dr. Biresh Kumar Sarkar	"Leveraging synergism: Industry-Academia Partnership fot Implementation of National Education Policy" on the occasion of the celebration of "Pharma Anveshan 2024".	The Neotia University, School of Pharmacy, TNU, in association with IAPST, PCI and IIC, TNU	6 th March 2024
16.	Dr. Shakti Bhushan	Advanced Research in Renal Disorders in Ayurveda	3 rd annual ECME series 'kidney manthan 3.0'	14 th March 2024
17.	Dr. Amit Kumar Dixit	"Natural Products and Human Ailments"	Himalayan Pharmacy Institute, Majhitar, East Sikkim	15th to 17th March, 2024

III.7. Seminar/Webinars/Various Events participated by the Officers/staff:

_	TTTO CITITION		
	S Participant	Name of the event and Topic	Date
I	Dr. G. Babu,	Review meeting of CCRAS, New Delhi "AVALOKNA" 2023", at	$04^{th} - 05^{th}$
	Dr. B.K. Sarkar	CCRAS, New Delhi	April, 2023

S Participant	Name of the event and Topic	Date
Dr. A.K. Mangal Dr. A.K. Dixit Dr. S.D. Pawar Dr. T.K. Mandal		
Dr. Amit Kuma Dixit	CPCSEA nominee at NIPER, Kolkata.	10 th April, 2023
Dr. Amit Kuma Dixit	at Bose Institute, Kolkata.	20 th April,2023
All staff	Practical hands on training of Fire and evacuation drill in Fire service week	20 th April,2023
All staff	One-day workshop program on "Importance of Millets and their Nutritional and medicinal uses in daily life" at CARI Kolkata	20 th May 2023
Dr. A.K. Mangal Dr. Rajes Bolleddu Dr. Susmita Roy Dr. Deepa Kumar Ms. Jyoti Dahiya	04 Days Training on "General Requirements for the Competence of Testing and Calibration Laboratories as per ISO/IES 17025:2017" at CCRAS-CSMCARI Chennai.	24 th & 27 th May, 2023
All staff		03 rd June 2023
All staff	Half-day workshop on "Environment Awareness and lifestyle changes for sustainable life" on World Environment Day-2023 at CARI Kolkata	05 th June 2023
Dr. A.K. Manga	Advanced Translation Training Programme conducted by Central Translation Bureau, New Delhi.	05 th -9 th June 2023
All staff	World Accreditation Day 2023 at CARI Kolkata	9 th June, 2023
All staff	World Blood Donor Day & Blood Donation camp at CARI Kolkata	14 th June 2023
Dr. Sharad D Pawar Dr. Lalrinpuia Dr. Rahul Singh Mr. Qadir Alam Dr. M Kalyankumarraj	3 days GLP Training Programme at CSMCARI, Chennai	17 th -19 th June
All staff	9 th International Day of Yoga Day (IDY) at CARI Kolkata	21 st June 2023
All staff	Independent Research Ethics Society (IRES) in collaboration with CCRAS-CARI Kolkata organized an International Hybrid Seminar on "AYUSH: Advancement & Scope in Bengal" (800th AYUSH Samriddhi International Webinar Celebration) at Central Ayurveda Research Institute, Kolkata.	24 th June 2023
Dr. Amit Kuma Dixit	Attended as a Member in the Institutional Animal Ethics Committee (IAEC) meeting of R. G. Kar Medical College, Kolkata.	26 th June, 2023
All staff	Two days, national seminar on "Prevention of Lifestyle disorders through Ayurvedic intervention by incorporating millets" organized by CARI, Kolkata in collaboration with Anthropological Survey of India, Kolkata	27 th -28 th June, 2023
Dr. Anupam K Mangal,	Two days National Seminar on "National Seminar on Role of Medicinal plants to combat metabolic disorders and associated pathological	30 th June and 01 st July

S	Participant	Name of the event and Topic	Date
	Dr. Rajesh Bolledu, Ms. Sreya Dutta and Dr. Jyoti Dahiya	complications' organized by School of Natural Product studies, Jadavpur University, Kolkata, India.	2023
	All staff	Awareness programme on National Organ Donation Day at CARI Kolkata	3 rd August 2023
	All staff		05 th September, 2023
	Dr. Amit Kumar Dixit	Attended as a Member in the Institutional Animal Ethics Committee (IAEC) meeting as CPCSEA Nominee at NIPER, Kolkata	08 ^h September, 2023
	All Staff	"2023"	14 th -29 th September 2023
	All Staff	An awareness webinar "The Role of Traditional and Regional Nutritious Food for Health Promotion" at CARI Kolkata	19 th September 2023
	Dr. Anupam K. Mangal, Mrs. Manosi Das, Mr. Kalyan Hazra, Dr. Rajesh Bolledu, Dr. Deepak Kumar Mrs. Jyoti Dahiya Dr. Sudipto Debnath	Ninth Foundation Oration Organized by Professor Asima Chatterjee Foundation, Kolkata	22 nd September 2023
	Dr. G. Babu	"CCRAS-MANTHAN-2023", a meeting to review the action taken on the recommendations of Avalokan-2023 and to plan for the next financial year 2024-25 held at CCRAS Headquarter office.	25 th and 26 th September 2023
	All Staff	Garbage Free India cleaning Drive (1 st October 2023
	Dr. Amit Kumar Dixit	Deputed as expert trainer for "NABL (ISO 15189:2012)" and filed application for NABL accreditation at CARI, Patiala	25 th to 26 th October
	All Staff	Vigilance awareness week 2023	27 th Oct06 th Nov. 2023
	Dr. A.K. Mangal	Training programme "ICMR-CCRAS training on Ethics guidelines for biomedical & helath research involving human participants" organized in Hybrid mode by CARI-CCRAS, Ministry of Ayush, New Delhi and W.H.O Country office for India and ICMR Bioethics unit, New Delhi at CCRAS Headquarter.	3 rd November 2023.

S Participant	Name of the event and Topic	Date
Dr. Sharad D. Pawar Dr. Lalrinpuia Dr. Rahul Singh Mr. Qadir Alam Dr. M. Kalyankumarraju	Ayurinformatics Workshop at RARI, Pune and Bioinformatics Centre, Savitribai Phule Pune University, Pune	20 th -25 th November, 2023
Dr. Amit Kumar Dixit	National Seminar on Lifestyle Disorders And Ayurveda at Paschimbanga Ayurved Chikitsak Samity, held at Anthropological Survey of India , Kolkata	24 th -25 th November, 2023
All Staff	Constitution Day	26 th November 2023
Dr Rajesh Bolleddu	Publication Pakwada organized by CCRAS, Hqrs at CARI, Bengaluru from	28 th Nov. to 2 nd Dec. 2023
Dr. Amit Kumar Dixit	Two Days Management Development Programme on GEM & GFR at Arun Jaitley National Institute of Financial management, Faridabad, Haryana	30 th Nov01 st Dec., 2023
Dr. A.K. Mangal	3 rd International Conference and Buyers Sellers Meet for Medicinal Plants Used in Lifestyle Products" organized by Jadavpur University	06 th -08 th December 2023
Dr. Amit Kumar Dixit	Attended as a Member in the Institutional Animal Ethics Committee (IAEC) meeting as CPCSEA Nominee at Eminent Collage Of Pharmacy, Kolkata	08 ^h December, 2023
Dr. Amit Kumar Dixit	Attended as a Member in the Institutional Animal Ethics Committee (IAEC) meeting as CPCSEA Nominee at NIPER, Kolkata	20 ^h December, 2023
All Staff	हिंदीकार्यशाला विषय: "वैज्ञानिकलेखनमेंहिंदीकातकनीकीप्रयोग"	20 th December 2023
Dr. Amit Kumar Dixit	Attended as a Member in the Institutional Animal Ethics Committee (IAEC) meeting as CPCSEA Nominee at KPC, Jadavpur Kolkata	23 rd December, 2023
Dr. Amit Kumar Dixit	Attended as a Member in the Institutional Animal Ethics Committee (IAEC) meeting as CPCSEA Nominee at Eminent Collage Of Pharmacy, Kolkata, , through Video Conferencing	06 ^h January, 2024
Dr. Amit Kumar Dixit	Laboratory Training on recent techniques in Molecular Biology and Bioinformatics at Department of Biosciences and Biomedical Engineering , Indian Institute of Technology Indore (IIT), Simrol, Indore , MP	08 th to 17 th January,2024
Dr. Amit Kumar Dixit All staff	Expert in meeting for vetting specification of Instruments/ Equipments for pathology laboratory through GeM at DACRRIH, Kolkata Awareness Programme on "Pharmaco-vigilance in ASU & H Drugs &	12 ^h February,2024 21 st February,

S	Participant	Name of the event and Topic	Date	
		Misleading advertisements", Organized by Central Ayurveda Research Institute, Kolkata	2024	
	Dr. G. Babu		08 th 2024	March
	All staff		21 st 2024	March
	All staff	one day seminar on titled "Swachh Bharat, Samriddh Bharat, organized by CARI, Kolkata	23 rd 2024	March

IV. Clinical Research: -

IV.1.(i). Clinical Research (in brief):

A. ONGOING PROJECTS

Project 1.

Name of Project: Central Sector Scheme of Ayush Oushadhi Gunvatta Evum Utpadan Samvardhan Yojana (AOGUSY) under Ministry of AYUSH, Government of India.

Central Ayurveda Research Institute, Kolkata is being carried out the Central Sector Scheme of Pharmacovigilance for ASU&H drugs under Ministry of AYUSH, Government of India as Peripheral Pharmacovigilance Centre (PPvC 014) since 1st August 2018. One JRF (Ay.) is working in this project as sanctioned from May, 2023. The Institute has documented 96 misleading advertisements on Ayurvedic products and 19 Adverse Drug Reaction (ADR) till 31st March 2024 and reported to Intermediary Pharmacovigilance Centre and National Pharmacovigilance Coordinating Centre as per project guideline. The centre has been organized 22 nos. of awareness programme including 05 nos. of seminar in different places.

Project 2.

Name of Project: Morbidity and Healthcare Seeking behaviour of the Patients visiting the Ayurveda Healthcare Facilities of the DGAFMS Hospitals: A Cross-Sectional Survey Study.

The project was sanctioned on 31.05.2023 by the Council to understand the care seeking behaviour of the patients visiting the Ayurveda healthcare facilities established in the DGAFMS hospitals with the budgetary head of Rs. 8,42,300/- for 14 months. The project has been launched w.e.f. 19.07.2023. In this survey 1723 nos. of participants approached for willingness to participate in the survey in which 1685 nos. of participants successfully completed participation in the survey and 38 nos. of Non-responders till now.

Project 3.

Name of Project: General Health Screening with Special Focus on Tuberculosis, Anemia, Haemoglobinopathies & Malnutrition and Ayurvedic Interventions for Better Health Outcomes in Students of Ekalavya Model Residential Schools (EMRS) functioning under M/o Tribal Affairs.

Central Ayurveda Research Institute, Kolkata is being carried out the project from 8th March, 2024. The primary objectives of the project is to screen the general health condition of the students of EMRS with special focus on Anemia, Haemoglobinopathies, Malnutrition and Tuberculosis through Ayurvedic interventions as standalone/add-on. To fulfil the objectives of the project three EMRS schools at Jharkhand state named EMRS Bhognadih, EMRS Kathijoria and EMRS Tarsia has been allotted for screening & investigations of school children to CARI, Kolkata. The P.I. of the project along with other project staff has been visited those schools for conducting investigations / inspections programme on 11th & 12th March, 2024. The PI and Co-I of this project has been attended the interactive investigator's meet to discuss and finalise the implementation strategy of this project has been conducted on 22nd and 23rd March, 2024 at CCRAS Hqrs., New Delhi. The project has been sanctioned with Rs. 66,70,520/- for 02 years of duration for completion.

B. COMPLETED PROJECTS: 01

Name of Project: Clinical Evaluation of Gokshuradi Guggulu and Nimbadi Churna in Vatarakta.

The project was sanctioned on 28.07.2020 by the Council to evaluate clinical efficacy and safety of the Gokshuradi Guggulu and Nimbadi Churna in Vatarakta (GOUT). The project was sanctioned with Rs. 9,59,000/- in which Rs. 6,26,000/- has been released from Council and Rs. 4,80,050/- has been utilized for smooth completion of the project. Within stipulated time period, out of 55 targeted Patients 75 nos. patients have been screened, out of them 55 nos. patients have been enrolled, 49 nos. patients have been successfully completed and 06 nos. patients have been dropped out. All the drugs interventions were implemented as per there indication guideline and the requisite lab investigation (before treatment and after treatment) also done. The blood test for measuring specific laboratoey parameters and X-Ray of specific joint along with ECG has been done in case of screening patient. The study reveals the significance and safety and efficacy of mentioned drugs in mass implementation. It's also observed from the study that the Vatarakta (GOUT) among the study population has very much improved during the study period. No ADR/AE observed in enrolled patient within the study period. No significant pathological changes occur in the blood bio-chemical parameter.

IV.1. (iii). Ayurveda Mobile Health Care Programme under Schedule Casts Sub-Plan (2023 - 2024):

Ayurveda Mobile Health Care Program under schedule castes sub plan (SCSP) project was initiated by CCRAS, New Delhi and extended its research program in this institute in the year 2016 as per the council's letter of 65-4/2015-CCRAS/Admin/SCSP/Kolkata/315, dated 23rdSeptember, 2015. In this project initially an amount of Rs.37,43,000.00/- (Rupees Thirty Seven Lakh Forty Three Thousand) was sanctioned (File No. HQ-PROJ013(11)/7/2023-PROJ/33 dated 26.04.2023 and later on Rs.38,80,000.00/- (Rupees Thirty Eight Lakh Eighty Thousand only) was sanctioned (F.No.HQ-PROJ13(11)/7/2023-PROJ/838/ dated 08.03.2024 for the year 2023-2024. In the year 2023-24 one IMR project was carried out under the project AMHCP-SCSP.

Project: 01

Title of Project: "AMHCP-SCSP survey"

Name and Designation of

i) Principal Investigator: Dr. Ranjita Ekka, Research Officer (Ay)ii) Co-Investigator(s): a) Dr. Debajyoti Das, Research Officer (Ay)

Duration of Research Project: One year

i) Period required for pre-trial preparations: 1 Months

ii) Period which may be needed for collecting the data: 10 months

iii) Period that may be required for Annul report: 1 Months

Aim: To provide health care through Ayurveda and to observe the health status in the areas predominantly dwelled by the scheduled castes.

Primary Objectives:

- 1) To provide health care services through Ayurveda interventions (as adjuvant to the ongoing treatment if any) for various disease conditions through outreach OPDs and health camps.
- 2) To understand the health status of the target population through questionnaires

Secondary Objectives:

- 1) To provide preventive healthcare through awareness regarding Ayurveda based lifestyle advocacy.
- 2) To know about perception of the study population regarding Ayurveda for health care.

Study duration: One year (from the date of initiation of the work)

Methodology

The health survey of SC population were done in the 05 selected SC dominated villages nearby the institutes by the provided team. The sarpanch /In-Charge etc. of the selected Village/area were contacted and a brief appraisal of the project were given. The approval of Institutional Ethics Committee was obtained before initiating programme. Door to door survey were conducted to evaluate the health profile of the Scheduled caste population in the specially designed formats.

- Village information were collected in FORM-1.
- Information of each individual SC person in the households were interviewed using an Individual Questionnaire i.e. FORM-2.
- Information of each new patient & follow up cases were collected in OPD FORM.

Inclusion criteria:

- i. Person belongs to Scheduled Caste population of selected villages/ areas.
- ii. Willing to participate in the Health Survey.

Exclusion criteria

i. Person belongs to other than SC community

Study Site

Selected 05 Villages:

Study Type: Cross sectional

Total Sample Size: 750 from each pocket, total 3750.

Number of Groups- One **Laboratory Investigations**

Hb gm%, Blood sugar was carried out at their doorstep/ Medical camp.

Procurement and supply of drugs

The drugs utilized in the study were procured from the Council identified GMP certified pharmacies.

Date of initiation: 01st May 2023.

Ethical Committee approval date: F.6-34/2021-CARI/Tech/IEC/Part-IV/269 dated.13.05.2022 .

Summary of the project:

The Projects activities were being carried out as per guidelines of the council which include door to door survey pretending the socio economic & health status, care & support through medical camp (free health checkup & advice, free distribution of Ayurvedic medicine and free investigation of Random Blood Glucose & Hemoglobin) with the help of local community-based organization. Distribution of ICE materials and health awareness among the masses are also being carried out along with medical camp and survey.

SC Pockets of various gram panchayets and blocks of South 24 Parganas & North 24 Parganas district of West Bengal within 50 km of our institute namely Naskarhait, Uttar-pratapnagar, Paschim Radhanagr, Kamra-Atghara and Beonta-Ghoshpara were chosen for medical camp and documentation of Demographic information, food habits, hygienic condition and prevalence of diseases. Total 3750 population target were provided for the project. Numbers of Tour target were 200. Total Number of 3750 sc population were covered during door to door survey and total number of 6349 patients (including 5788 SC & 561 others)covered, among them total number of SC new patients were 2,020 and total 3768 number of SC follow up patients were treated during Ayurvedic Mobile Health Camp and 3,356 patients were screened for anemia (through Hemoglobin test) & 3,340 patients were screened for diabetes through capillary blood glucose test during the reporting period. Total 200 tours were

conducted in various sc pockets to the above said areas. Focus Camp on diseases like Osteo-arthritis, Hyper-tension, Diabetes, Skin diseases were conducted in camp area. Various lectures were conducted to promote health awareness among public under the awareness generation schedule like Ayush for immunity campaign, swachhata campaign, Vigilance awareness campaign, Poshan campaign, International year of Millets, World Ayurveda day etc. at the camp site.

Project: 02

Title of Project: Effectiveness of Ayush Rasayana A & B on Quality of Life of elderly population-A cluster randomized study.

Name and Designation of

i) Principal Investigator: Dr. G. Babu, Director

ii) Co-Investigator(s): a) Ranjita Ekka, Research Officer (Ay.)

India, the world's second most populous country, has experienced a dramatic demographic transition in the past 50 years, entailing almost a tripling of the population over the age of 60 years (i.e., the elderly) (Government of India, 2011). The prevalence of age related diseases is in an upward trend due to increased life expectancy in humans. By the year 2050, the world population of adults older than 65 years will comprise 1/5th of the global population. There is a gradual loss of muscle mass, strength and functionality with advancing age. Therefore there is an urgent need to find intervention that help in reducing the incidence of debilitating age related diseases and promote quality of life. In classical texts of Ayurveda, Rasayana is a term used for unique therapeutic measures intended to improve cognition, memory, physical strength and delay the degenerative processes. Ayush Rasayana A and B, are a coded Ayurvedic medicine, is effective on improving the general well-being of the elderly by enhancing their physical endurance, QOL, and cognition. "Rasayana" medicines described in Ayurveda play role in maintaining quality of life and enhancing the longevity.

Studies have shown the effect of **Ayush Rasayana A & B**on improving the health-related Quality of Life & functional capacity of elderly population and also found safe in apparently healthy elderly population when administered in the prescribed dose. Ayush Rasayana A& B are developed from extracts of herbs pertaining rasayana property. Based on the classical claim, present work was planned to assess the effectiveness of **Ayush Rasayana A& B**on Quality of Life of elderly population in selected SC/ST dominant areas.

The present community based study aims at assessing the efficacy of Ayurveda Interventions on Quality of Life of elderly population.

Sample Size: A total of 40 participants were enrolled in the study in two group i.e. 20 participants in each group.

OBJECTIVES:

Primary:

1) To assess effectiveness of $Ayush\ Rasayana\ A\&\ Bon\ quality\ of\ life\ of\ elderly\ population$

Secondary:

- 1) To assess the effectiveness of Ayush Rasayana A& Bon quality of sleep of elderly population
- 2) To assess the effectiveness of Ayush Rasayana A& Bon functionality of elderly population
- 3) To assess the tolerability of Ayush Rasayana A& Bamong elderly population for 3 months

MATERIALS AND METHODS

1. Methodology

Study Type: Prospective Cluster Randomized multicenter study

No. of Groups: Two

Randomization: Cluster randomization

Masking: None.

Endpoints: Effectiveness. **Study Intervention** –

Group-I: (Details at Annexure I & II)

1) Ayush Rasayana A

Dose: 10 gm dailyDosage form : PowderAnupana: lukewarm water

- Route of Administration: Orally
- Time of Administration: once daily after food at bed time
- **Duration:** 06 days (from the day of enrolment)

2) Ayush Rasayana B

- **Dose:** 1.5 gm per day in two divided doses (2 capsules twice a day)
- Dosage form: Capsule (each containing 375 mg extracts)
- **Anupana**: lukewarm water
- Route of Administration: Orally
- Time of Administration: twice daily before food
- **Duration:** 84 days (from 7th day on wards to 90th day)

3) Ancillary Care through Ayurveda

Group-II: Ancillary Care through Ayurveda

<u>Timelines and deliverables</u> -**Total Study period:** 12 months Preparatory activities: 2 months

Recruitment: 6 months Intervention: 3 months Statistical analysis: 1 month

Follow-visits: every month (34^{th} day ± 2 , 62^{th} day ± 2 , 90^{th} day ± 2 days)

SelectionCriteria: Inclusion Criteria:

- i. Elderly population of any sex, of age \geq 60 to \leq 75 years residing in the identified areas.
- ii. Participants who are ambulatory and clinically stable with or without medication
- iii. Participants willing to provide written informed consent for their participation in the study for 3 months.
- iv. Participants scoring 5 or more in Katz Index of Independence in Activities of Daily Living

Exclusion Criteria:

- i. Participants with blood pressure $\geq 160/100$ mm of Hg),
- ii. Participants with HBA1C \geq 8 %
- iii. Participants with S. TSH>10 mIU/ml with or without medication, elevated liver enzymes (AST and/or ALT > 2 times of the upper normal limit), impairment of renal function (defined as S. creatinine > upper normal limit).
- iv. Participants with history of serious cardiac dysfunction or Pulmonary Dysfunction (Asthmatic and COPD patients), any severe cognitive or psychiatric illness, neurological disorders, hemorrhagic diseases, coagulation disorders within 90 days prior to the screening
- v. Participants having body mass index (BMI) less than 23 or more than 30 kg/m²
- vi. Participants with history of cancer or chronic inflammatory conditions including but not limited to chronic infection like tuberculosis, leprosy, HIV, and collagen vascular diseases
- vii. Participants on Hormone Replacement Therapy, steroid therapy, chemotherapy of immunosuppressive therapy
- viii. Participants with alcohol use disorder (AUD) (CAGE score >2) (Annexure III)
- ix. Participants who are currently on any drugs that affect cognitive or physical function or on any nutritional supplements or any Ayush or folk medicine for maintaining quality of life
- x. Any other condition which PI may think can jeopardize the study.

Withdrawal Criteria:

- (i) Occurrence of adverse event needing hospitalization or emergency management.
- (ii) Development of any condition mentioned in the exclusion criteria during the study period.
- (iii) Participants not compliant with the protocol or not willing to continue in the study.
- ** The Investigator shall prepare a detailed justification for withdrawal of the participant and also indicate the line of further management-if needed. This will be informed to the Sponsor and the Ethics Committee within appropriate time as per AYUSH GCP guidelines.

Primary outcomes

 Change in Quality of life (QOL) of elderly assessed by Older People's Quality of Life Questionnaire- Brief (OPQOL-BRIEF) (Time frame: Baseline,34th day,62nd day &90th day)(Annexure IV)

Secondary outcomes

- 1. Change in Katz Index of Independence in Activities of Daily Living(Time frame: Baseline &90th day) (Annexure V)
- 2. Change in Quality of Sleep assessed by using Pittsburgh Sleep Quality Index (PSQI)(Time frame: Baseline &90th day)
- 3. Change in the time required for Five Times Sit-to-Stand Test in both (Time frame: Baseline &90th day) (Annexure VI)
- 4. Change in grading of shoulder joint mobility assessed through 3 simple physical manoeuvres for active ROM of the shoulder joints (Active abduction, external rotation and internal rotation)*(Time frame: Baseline &90 th day) (Annexure VII)
 - * Each manoeuvre will be assessed by observing and grading range of mobility on a 3-point scale (fully able, 3, partially able, 2, or unable, 1) and pain with movement (no pain, 1, some pain, 2, and lots of pain, 3). The right and left sides will be scored separately. A sum score for all 3 manoeuvres on each side and for pain on each side will also be reported.
- 5. Any change in hematological and bio-chemical parameters (CBC, LFT and RFT) (Time frame: Baseline and 90th day)
- 6. Occurrence of treatment emergent adverse events during the study period

II. Administrative Report (Staff Pattern & Administration)

II.1.A. Staff pattern as per format given below:

S. N.	Name of the Sanctioned posts	No. of sanctioned posts	Name of the persons working against posts	No. of Vacant posts	Sex M/F	Whether SC/ST/ OBC	Remarks
1.	Director	01	Dr. G. Babu		M	SC	Joined on 03.02.2023
2.	A.D. (Ay.)	01	Dr. T. K. Mandal		M	SC	Promoted on adhoc basis w.e.f. 25.11.2022.
3.	A.D. (Chemistry)	01					* Dr. A. K. Meena Posted at RARIDD, Gwalior against the vacancy of CARIDD, Kolkata.
4.	A.D. (Pharmacology)	01	Dr. Sharad D. Pawar		M		
5.	A.D. (Pharmacognosy)	01	Dr. A. K. Mangal		M		
6.	A.D. (Bio-chem.)	01	Dr. A. K. Dixit	-	M	-	
7.	A.D. (Pathology)	01		01	-	1	
8.	A.D. (Pharmacy)	01#	Dr. B. K. Sarkar [#]		M		Joined on 13.08.2021 (FN) on temporary transfer along with the post from CARI, Jhansi.
			Ms. M. Das		F	SC	
			Mr. K.Hazra		M		
9.	R.O. (Chemistry)	02+1*	Dr. Deepak Kumar ^{\$}		M	OBC	Against the vacant post of CARIHD, Bhubaneswar

10.	R.O.(Pharmacology	02	Dr. Lalrinpuia	01	M	ST	
11.	R.O. (Ani./Exp./Path.)	01	Dr. Rahul Singh		M		
			Dr. L. D. Barik		M	OBC	Retired on 31.05.2023
			Dr. D. Das		M	OBC	-
			Dr. D. S. Sahu		M	OBC	
12.	R.O. (Ayurveda)	10	Dr. S. K. Debnath	03	M	OBC	Relieved on transfer to RARI, Port Blair w.e.f. 31.10.2023
			Dr. R. Ekka		F	ST	
			Dr. A. Hetalben		F	SC	
			Dr. S. Saha		F		
			Dr. S. Bhushan		M	EWS	
13.	R.O. (Medicine)	01		01			
14.	R.O. (Pharmacy)	01		01			
15.	R.O. (Pharmacognosy)	01	Dr. Rajesh Bolleddu		M	SC	
16.	R.O. (Botany)	01	Ms. Sreya Dutta		F		
17.	R.O.(PathMedical)	01		01			
18.	R.O. (Microbiology)	01	Dr. Susmita Roy		F		
19.	Statistical Officer	01		01			
20.	Admn. Officer	01	Dr. H. O. Kaushik		M		
21.	A.R.O. (Chemistry)	01	Mr. Manoj R. Batule		M	OBC (PWD)	
22.	A.R.O (P'cology)	03	Mr. Qadir Alam Mr. M. K. Raju	01	M M	OBC OBC	
23.	A.R.O (Botany)*	01					The post has been transferred to NRISH, Leh.
24.	A.R.O. (P'cognosy)	02	Ms. J. Dahiya	01	F		
25.	R.A. (P'cology)	01		01			
			Dr. S. Debnath		M		
26.	R.A. (Chemistry)	04	Dr. S. Mondal	01	F		
			Mr. R. K. Dey		M	OBC	
27.	R.A. (Botany)	01	Ms. Simmi Mall		F		Joined on 11.11.2022
28.	R.A. (Pharmacy)	01	Mr. Parth R. Gharat		M	OBC (PWD)	Relieved on transfer to RARI, Pune w.e.f. 30.06.2023
29.	Sister-In-Charge	01	Ms. P. Ghosh		F		
			Ms. B. Chakraborty		F		
			Ms. M. Ash		F	OBC	
30.	Staff Nurse	05			F		Relieved on transfer posting on promotion to Sister I/c on 22.06.2023 at CARI, New Delhi
			Mr. N. S. Dindorya		M	SC	
21	G 1 A	0.1	Mr. D. S. Purviya	01	M	EWS	
31.	Statistical Assistant	01		01			

32.	Assistant	01		01			
33.	Private Secretary	01	01				
34.	Library & Information Assistant	01		01			
35.	Social Worker	01		01			
	Laboratory Technician: General**	08	Mr. S.C. Panday	07	М		One post has been transferred to NRISH, Leh
36.	Pharmacology	01		01			
	Chemistry	02	Mr. B. Ganguly Mr. U. Hazra		M M	SC	
	Pharmacognosy	01		01			
37.	Panchakarma Technician	02		02			
38.	Radiographer	01		01			
		l	Mr. S. Dalui		M	SC	
39.	Pharmacist Grade - I	04	Mr. D. Rana		M	OBC	
	111111111111111111111111111111111111111		Mr. A. Jabbar		M		
			Ms. S. Mondal		F		Relieved owing to
40.	UDC	04	Mr. P. Kumar	01	М	OBC	repatriate under his parent organization after completion of deputation period under CCRAS w.e.f. 01.12.2023
41.	Driver	02		02			
42.	Laboratory Assistant	02		02			
43.	Laboratory Attendant***	07- 1***		06			***One post has been transferred to NRISR, Leh.
		l	Ms. A. Rakshit				Retired on 31.03.2023
44.	~ ~			01			
	Lower Division Clerk	04	Mr. A. Patra	01	М	SC	Relieved on resignation w.e.f. 26.07.2023
	Clerk	04	Mr. A. Patra Mr. A. Kumar	01	M M	SC OBC	Relieved on resignation w.e.f.
45.	Clerk Dark Room Assistant	04		01			Relieved on resignation w.e.f. 26.07.2023
	Clerk Dark Room Assistant MTS (Panchakarma Attd.)		Mr. A. Kumar		M	OBC	Relieved on resignation w.e.f. 26.07.2023
45.	Dark Room Assistant MTS (Panchakarma Attd.) MTS (Pharmacy Attd.)	01	Mr. A. Kumar		M M	OBC SC	Relieved on resignation w.e.f. 26.07.2023
45. 46.	Clerk Dark Room Assistant MTS (Panchakarma Attd.) MTS (Pharmacy	01	Mr. A. Kumar Mr. R. Haldar	04	M M 	OBC SC	Relieved on resignation w.e.f. 26.07.2023
45. 46. 47.	Clerk Dark Room Assistant MTS (Panchakarma Attd.) MTS (Pharmacy Attd.) MTS (Animal	01 04 02	Mr. A. Kumar Mr. R. Haldar	 04 02	M M 	OBC SC 	Relieved on resignation w.e.f. 26.07.2023
45. 46. 47. 48.	Clerk Dark Room Assistant MTS (Panchakarma Attd.) MTS (Pharmacy Attd.) MTS (Animal Attendant) MTS (Female	01 04 02 03	Mr. A. Kumar Mr. R. Haldar	 04 02 03	M M 	OBC SC	Relieved on resignation w.e.f. 26.07.2023
45. 46. 47. 48. 49.	Clerk Dark Room Assistant MTS (Panchakarma Attd.) MTS (Pharmacy Attd.) MTS (Animal Attendant) MTS (Female Attendant)	01 04 02 03 01	Mr. A. Kumar Mr. R. Haldar	 04 02 03 01	M M	OBC SC 	Relieved on resignation w.e.f. 26.07.2023 Joined on 22.03.2023
45. 46. 47. 48. 49. 50.	Clerk Dark Room Assistant MTS (Panchakarma Attd.) MTS (Pharmacy Attd.) MTS (Animal Attendant) MTS (Female Attendant) MTS (Chowkidar)	01 04 02 03 01	Mr. A. Kumar Mr. R. Haldar	 04 02 03 01 01	M M	OBC SC	Relieved on resignation w.e.f. 26.07.2023 Joined on 22.03.2023

54.	MTS (Aya)	03	Ms. Mina Kumari	02	F	SC	Joined on 29.03.2023 on compassionate ground.
55.	MTS (Field Attendant)	02		02			
56.	MTS (Safaiwala)	05	Mr. M. Hazra	04	M	SC	
57.	MTS (Dresser)	01		01			
58.	MTS (Attendant Survey)	01		01			
59.	Lift Operator	01		01			
60.	MTS (Mali)	01		01			
61.	MTS (Pharmacy Attd./ Labourer)	08		08			
62.	MTS (Attendant)	02		02			
63.	MTS (Peon)	02		02	-		
64.	MTS (Animal Attdcum-Sweeper)	01	Mr. V. Kumar		M	SC	
	Total	139-3 =136+ 1+1= 138					

SYNOPSIS:

1. Total sanction. = 139

2. Three (03) posts are transferred to NRISH, Leh. = 136 (139-3) 3. OneR.O. (Chemistry) joined against the vacant = 137 (136+1)

Addition: 3. OneR.O. (Chemistry) joined ag post of CARI, Bhubaneshwar.

4.*One A.D. (Pharmacy) joined along with the post of CARI, Jhansi.

Note:

- 1. *The only post of A.R.O.(Botany) is transferred to NRISR, Leh.
- 2. **One post of Laboratory Technician out of 12 is transferred to NRISR, Leh.
- 3. ***One post of Laboratory Attendant out of 07 is transferred to NRISR, Leh.
- 4. The sanctioned strength of the Unit now stands reduced from 139 to 136.

II.1.B. Area Wise Manpower Engaged at the Institute:

Sl.	Name of the post	Total Nos. of manpower	Remarks
No.		engaged	
1.	Security Personnel	14	Under GeM Contract Through
			Outsourcing Agency Area Wise
2.	Housing Keeping	11	Under GeM Contract Through
	Personnel		Outsourcing Agency Area Wise

II.1.C. Outsourcing/Contractual staff deployed against the vacant posts of the Institute:

			8	F
Sl.	Name of the post	Total Nos. of	Total Nos. of	Remarks
No.		Sanctioned post	manpower	
			engaged	

1.	Other Manpower	*Against vacancy	45	Under GeM Contract Through
				Outsourcing Agency

II.1.D. Staff working against additional sanctioned posts through outsourcing/Contractual:

Sl. No.	Name of the post	Total Nos. of manpower engaged	Remarks
1.	Other Manpower [(Consultant/O.A. (Hindi)]	01	Sanction letter No. 12-9/2009- CCRAS/Estt./Vo.II/276 dated 20.01.2012 (Engaged Under GeM Contract Through Outsourcing Agency)
2.	Data Entry Operator (Hindi Typist)	01	Sanction letter No. 12-9/2009- CCRAS/Estt./Vo.II/276 dated 20.01.2012 (Engaged Under GeM Contract Through Outsourcing Agency)
	Total	02	

II.1.E. Contractual Staff engaged at Military/Cantonment Hospitals under Ministry of Defense (DGDE):

Sl. No.	Name of the post	Total Nos. of manpower engaged	Remarks
1.	Ayurveda General Duty Medical Officer	01	J. C. Bose General Hospital, Barrackpore Cantonment,
2.	Ayurveda Pharmacist	01	Ministry of Defence, Govt. of India
	Total	02	

II.1.F. Project personnel working under various IMR & outreach programmes:

S. N.	Name of the post	Total Nos. of manpower engaged	Remarks		
1.	SRF (Pharmacology)	01	IMR-Arthritic Rat Model Project. Simhanada Guggulu		
2.	JRF (Chemistry)	02	Development of quality standards of selected extra-pharmacopoeial drugs (AnuktaDravyas) used in local health traditions collected from different		
	JRF (Botany)		regions of India		
3.	JRF (Chemistry)	01	To establish the best procurement time for certain herbs by analyzing the seasonal variation in bioactive secondary metabolite with quantitative HPLC Part-II		
4.	JRF (Botany)	01	Digitalization and indexing of herbarium sheets at CARI Kolkata collected from 1970-2000		
5.	JRF (Chemistry)	01	Isolation of Marker/PRS compounds of selected Medicinal Plants		
6.	JRF (Chemistry)	01	Comparative Pharmacognostical and Phytochemical Standardization of Commonly Adulterating Ayurvedic Drugs and Their Adulterants		

S. N.	Name of the post	Total Nos. of manpower engaged	Remarks
7.	JRF (Ay.)	01	Central Sector Scheme on Pharmacovigilance of ASU &H Drugs under Ministry of AYUSH, Government of India.
8.	SRF (Ay.)	01	Process validation and Pharmaceutical Standardization and Estimation of Shelf Life Study of Abhijita Taila, Madhukadi Taila and Vyaghri Taila
9.	JRF (Biochemistry/Biotechn ology/Bioinformatics/Lif e Sciences)	01	Evaluation of anit-cancerous potential, in silico pharmacological analysis and molecular mechanism of Kanchanar guggulu in ovarian cancer μ Tumor spheroids and in in-vivo model
10.	SRF (Ay.)	01	Morbidity and Healthcare-seeking behavior of the patients visiting the Ayurveda healthcare facilities of the DGAFMS Hospitals: A cross-sectional survey study
11.	SRF (Ay.)	01	Process Validation and Pharmaceutical Standardization and Estimation of Shelf Life Study of Vacalasunadi Taila, Somaraji Taila, Hingutriguna Taila and Yastimadhu Ghrta
12.	SRF (Ay.)	02	AMHCP (SCSP) Project.
13.	Pharmacist	01	AMHCP (SCSP) Project.
14.	Office Assistant	01	AMHCP (SCSP) Project.
15.	Laboratory Technician	01	AMHCP (SCSP) Project.
16.	Driver cum MTA	01	AMHCP (SCSP) Project.
17.	SRF (Ay.)		General Health screening with special focus on Tuberculosis, Anaemia, Hemoglobino-pathies &
18.	Office Assistant	01	Malnutrition and Ayurveda intervention for better health outcomes in the students of Ekalavya Model Residential Schools (EMRS) functioning under M/o Tribal Affairs EMR-Eklavya School
19.	MTA	01	W/O THOSE ATISTIS EIVIN-ERIAVYA SCHOOL
	Total	20	

II. 2. No. of Staff according to group:

Sl.	Crown	Number of Staff						Whether roster
No.	Group	General	SC	ST	OBC	Others	Total	maintained or not
1.	A	10	05	02	05	01	23	Yes
2.	В	07	01	00	05	01	14	-do-
3.	С	05	04	00	04	00	13	-do-
4.	MTS	00	03	00	00	00	03	-do-
	Total	22	13	02	14	02	53	

II.3. Expenditure:

Sl. No.	Components	S.T. Category	Others	Total
1.	Male components	1,991,764.00	55,723,040.00	57,714,804.00
2.	Female components	1,906,356.00	16,868,771.00	18,775,127.00
Total				76,489,931.00

Powers and Duties of Officers and Employees

CARI, Kolkata is under the purview of CCRAS, Ministry of Ayush, Govt. of India. This Institute is headed by the Director (Institute), who is assisted by the Assistant Directors, Research Officers, Assistant Research Officers, Sister Incharge, Staff Nurse, Research Assistant, Pharmacist, Technician & Ministrial Staff. The Powers and Functions of the Director of this Institute is as per delegated power provided by the Council.

{Section 4(1)(b)(iii)}

The procedure followed in the decision making process, including channels of supervision and accountability

The CARI, Kolkata is taking decision on various issues in the following manners:

This Institute has a mandate in Research Activities framed by the CCRAS and decisions are arrived from Hqrs. Level through PEMC, SFC etc.

The final decision making authority is Governing Body of the Council/Council.

Norms set for discharge of functions

As per the Bye-Laws of the Council (CCRAS), provided time to time.

The rules, regulations, instructions, manuals and records, held by it or <u>under</u> its control or used by its employees for discharging its functions

- 1. Manual of Office Procedure
- 2. Fundamental Rules and Supplementary Rules(FR&SR)
- 3. CCS(Classification, Control and Appeal) Rules 1965
- 4. CCS(Conduct) Rules 1964
- 5. General Financial Rules(GFR)
- 6. Delegation of Financial Power Rules
- 7. CCRAS (Pension) rules in line with CCS (Pension) Rules
- 8. Central Services (Medical Attendance) Rules
- 9. Central Civil Service Leave Rules
- 10. Central Civil Services Leave Travel Concession Rules
- 11. Central Vigilance Commission (CVC) Manual

ſ	Section	4(I)(1)	o)(vi)}
	~ • • • • •	(-)(~ / \ · ~ /

A statement of the categories of documents that are held by it or under its control

No such documents are held in Vigilance Section that needs to be disclosed under this Section.

The particulars of any arrangement that exists for consultation with, or representation by, the members of the public in relation to the <u>formulation of its policy or implementation thereof</u>

Nil

A statement of Boards, Councils, Committees and other bodies consisting of two or more persons constituted as its part or for the purpose of its advice, and as to whether meetings of those Boards, Councils, Committees and other bodies are open to the public, or the minutes of such meetings are accessible for public

The following Boards/Committees are constituted:

Institutional Ethical Committee (Human Research)

S.N.	Name & Designation of IEC	Mob. No.	E-mail id
	Members		
1.	Dr. Abichal Chattopadhyay –	9830188238	abichalchattopadhyaya@gmail.com
	Chair Person		
2.	Dr. Avijit Hazra-	9831188172	blowfans@yahoo.co.in
	Basic Medical Scientist		
3.	Dr. Rupnarayan Bhattacharya-	9830084462	rupnarayan.bhattacharya@gmail,com
	Clinician		
4.	Dr. Tapas Kumar Dey-	9830812864	tapasdey.vcl@gmail.com
	Social Scientist		
5.	Ms. Dhiswari Nag –	9433818761	dhiswari.advocate@gmail.com
	Legal Expert		
6.	Mr. Swami Shastrajnananda-	9163449776	shastrajnanandaswami@gmail.com
	Lay Person		
7.	Ms. Piu Ghosh –	9775649279	meetpiu2010@gmail.com
	Member		
8.	Ms. Manosi Das-	8777343915	manosi_das@rediffmail.com
	Member		
9.	Mr. Utpal Hazra-	9477026395	utpalhazr@gmail.com
	Member		
10.	Dr. Tushar Kanti Mandal-	9434737577	drmandaltk@gmail.com
	Scientific Member		
11.	Dr. Saroj Kumar Debnath-	9477404010	sarojkumardebnath@gmail.com
	Alternate Member		
12.	Dr. Dipsundar Sahu-	8895173999	drdssahu@gmail.com
	Member Secretary		

Institutional Animal Ethics Committee:

S.N	Name & Designation	Designation in
		IAEC
1.	Dr. Gajji Babu, Director, CARI, Kolkata	Biological Scientist,
		Chairperson
2.	Dr. Lalrinpuia, Research Officer (Pharmacology), CARI,	Scientist In-charge of
	Kolkata	Animal House
		Facility, Member
		Secretary
3.	Dr. Rajesh Bolledu, Research Officer (Pharmacognosy),	Scientist from
	CARI, Kolkata	different discipline
4.	Dr. Susmita Roy, Research Officer (Microbiology), CARI,	Scientist from
	Kolkata	different discipline
5.	Dr. Rahul Singh, Research Officer (Animal Experimental	Veterinarian
	Pathology), CARI, Kolkata	
6.	Dr. Indranil Samanta, Associate Professor, Department of	Main Nominee,
	Veterinary Microbiology, West Bengal University of Animal	CPCSEA
	and Fishery Sciences, 37-K.B. Sarani, Belgachia, Kolkata-	
	700037	
7.	Dr. Pallab Kanti Haldar, Professor, Department of	Link Nominee
	Pharmaceutical Technology, Jadavpur University, Kolkata -	
- 0	700032, West Bengal	G :
8.	Dr. Soumi Sukla, Veterinarian, National Institute of	Scientist from outside
	Pharmaceutical Education and Research (NIPER), Chunilal	of the Institute
	Bhawan (Adjacent to BCPL), 168, Maniktala Main Road,	
0	Kolkata-700054	Conicillar
9.	Dr. Prasenjit Mondol, Associate Professor, Brainware	Socially aware
	University, Department of Pharmaceutical Technology, 398-	Nominee
	Ramkrishnapur Road, Barasat, Kolkata-700125	

Personal details of all regular staff of this Institute

Sl. No.	Name (no Salutation)	Designation	E-mail I'd (.gov/ .nic)	Contact Number
1	Gajji Babu	Director (Institute)	gajjibabu@ccras.nic.in	033 2367 3808
2	Biresh Kumar Sarkar	A.D. (Pharmacy)	bireshkumar@ccras.nic.in	033 2367 1002
3	Anupam Kumar Mangal	A.D. (P'cognosy)	ak.mangal@ccras.nic.in	033 2367 1002
4	Amit Kumar Dixit	A.D. (Bio-Chem.)	dr.akdixit@gov.in	033 2367 1002
5	Sharad Daulatrao Pawar	A.D. (Pharmacology)	sd.pawar@ccras.nic.in	033 2367 1002
6	Tushar Kanti Mandal	A.D. ((Ayurveda)	tushar.mandal70@gov.in	033 2367 1002
7	Debajyoti Das	R.O. (Ayurveda)	debajyoti.das@ccras.nic.in	033 2367 1002
8	Dipsundar Sahu	R.O. (Ayurveda)	dr.dssahu@gov.in	033 2367 1002
9	Manosi Das	R.O. (Chemistry)	manosi.das@gov.in	033 2367 1002
10	Kalyan Hazra	R.O. (Chemistry)	hazra.kalyan@gov.in	033 2367 1002
11	Amin Hetalben	R.O. (Ayurveda)	drhetal.amin@gov.in	033 2367 1002
12	Lalrinpuia	R.O. (P'cology)	dr.lalrinpuia@gov.in	033 2367 1002
13	Rajesh Bolleddu	R.O. (P'cognosy)	rajesh.bolleddu@gov.in	033 2367 1002
14	Ranjita Ekka	R.O. (Ayurveda)	dr.rekka@gov.in	033 2367 1002
15	Sreya Dutta	R.O. (Botany)	sreya.dutta@gov.in	033 2367 1002
16	Suparna Saha	R.O. (Ayurveda)	suparna.s@ccras.nic.in	033 2367 1002
17	Shakti Bhushan	R.O. (Ayurveda)	shakti.bhu@ccras.nic.in	033 2367 1002
18	Deepak Kumar	R.O. (Chemistry)	deepak.k@ccras.nic.in	033 2367 1002
19	Susmita Roy	R.O. (Microbiology)	susmita.roy@ccras.nic.in	033 2367 1002
20	Rahul Singh	R.O. (Ani./Exp. Path)	rahul.singh@ccras.nic.in	033 2367 1002
21	Jyoti Dahiya	A.R.O (P'cognosy)	jyoti.dahiya@ccras.nic.in	033 2367 1002
22	Qadir Alam	A.R.O (P'cology)	guadir.alam@ccras.nic.in	033 2367 1002
23	Batule Manoj Ranjit	A.R.O (Chemistry)	m.ranjit.batule@ccras.nic.in	033 2367 1002
24	Malayamarutham Kalyankumarraju	A.R.O (P'cology)	malayamarutham@ccras.nic.in	033 2367 1002
25	Sudipto Debnath	R.A. (Chemistry)	sudpta.debnath@ccras.nic.in	033 2367 1002
26	Susmita Mondal	R.A. (Chemistry)	susmita.mondal@ccras.nic.in	033 2367 1002
27	Simmi Mall	R.A. (Botany)	simmimall93@gmail.com	033 2367 1002
28	Ranjit Kumar Dey	R.A. (Chemistry)	ranjit.d@ccras.nic.in	033 2367 1002
29	Piu Ghosh	Sister Incharge	piu.ghosh@ccras.nic.in	033 2367 1002
30	Baisakhi Chakrabortty	Staff Nurse	b.chakraborty@ccras.nic.in	033 2367 1002
31	Madhumita Ash	Staff Nurse	madhumita.ash@ccras.nic.in	033 2367 1002
32	Naveen Singh Dindorya	Staff Nurse		033 2367 1002
33	Dilip Singh Purviya	Staff Nurse		033 2367 1002
34	Sandip Dalui	Pharmacist	sandip.dalui@ccras.nic.in	033 2367 1002
35	Debdas Rana	Pharmacist	debdas.rana@ccras.nic.in	033 2367 1002
36	Addul Jabbar	Pharmacist	abdul.j@ccras.nic.in	033 2367 1002
37	Suchandra Mandal	Pharmacist	suchandra@ccras.nic.in	033 2367 1002
38	Biplab Ganguly	Lab. Technician	biplab.ganguly@ccras.nic.in	033 2367 1002
39	Utpal Hazra	Lab. Technician	utpal.hazra@ccras.nic.in	033 2367 1002
40	Subash Chandra Pandey	Lab. Technician	sc.pandey@ccras.nic.in	033 2367 1002
41	Raja Haldar	DRA	raja.haldar@gov.in	033 2367 1002
42	Ankit Kumar	LDC	ankit.kumar91@ccras.nic.in	033 2367 1002
43	Magaram Hazra	MTS	magaram.hazra@ccras.nic.in	033 2367 1002
44	Virendra Kumar	MTS	virendra.k@ccras.nic.in	033 2367 1002
45	Meena Kumari	MTS		033 2367 1002

The monthly remuneration received by each of its officers and employees.

_List of Employees with Gross Monthly Remuneration of CARI, Kolkata

Sl. No.	Name & Designation	Level & Index	Gross Amount (Rs.)
1	Dr. G. Babu, Director	L-13/I-16	407826.00
2	Dr. Biresh Kumar Sarkar, A. D. (Pharmacy)	L-12/I-07	177857.00
3	Dr. Anupam Kumar Mangal, A.D. (Pharmacognosy)	L-13/I-05	256445.00
4	Dr. Amit Kumar Dixit, A.D. (Bio-Chemistry)	L-12/I-04	163697.00
5	Dr. Sharad D. Pawar, A.D. (Pharmacology)	L-13/I-04	289215.00
6	Dr. Tushar Kanti Mandal, A.D. (Ay.)	L-13/I-04	289215.00
7	Dr. Debajyoti Das, R.O. (Ay.)	L-12/I-10	223596.00
8	Dr. Dipsundar Sahu, R.O. (Ay.)	L-12/I-10	223596.00
9	Ms. Manosi Das R.O. (Chemistry)	L-11/I-04	142080.00
10	Mr. Kalyan Hazra, R.O. (Chemistry)	L-11/I-04	142080.00
11	Dr. Amin Hetalben Dayabhai, R.O. (Ay.) (01.04.2024 to 28.04.2024 = 28 days @100% Salary)	L-10/I-03	138718.00
11	Dr. Amin Hetalben Dayabhai, R.O. (Ay.) (29.04.2024 to 30.04.2024 = 02 days @80% Salary)	L-10/I-03	7927.00
12	Dr. Lalrinpuia, R.O. (Pharmacology)	L-11/I-03	161526.00
13	Dr. Rajesh Bolleddu, R. O. (Pharmacognosy)	L-11/I-03	138386.00
14	Dr. Ranjita Ekka, R.O. (Ay.)	L-11/I-03	161526.00
15	Ms. Sreya Dutta, R.O. (Botany)	L-10/I-07	129390.00
16	Dr. (Ms.) Suparna Saha, R.O. (Ay.)	L-10/I-04	139491.00
17	Dr. Shakti Bhushan, R.O. (Ay.)	L-10/I-04	137691.00
18	Dr. Susmita Roy, R.O. (Microbiology)	L-10/I-04	121601.00
19	Mr. Deepak Kumar, R.O. (Chemistry)	L-10/I-04	119801.00
20	Dr. Rahul Singh, R.O. (Animal Experimental Pathology)	L-10/I-03	133965.00
21	Ms. Piu Ghosh, Sister In-charge	L-08/I-10	115869.00
22	Ms. Baisakhi Chakrabortty, Staff Nurse	L-07/I-09	108188.00
23	Ms. Madhumita Ash, Staff Nurse	L-07/I-08	99779.00
24	Mr. Dilip Singh Purviya, Staff Nurse	L-07/I-03	90027.00

Sl. No.	Name & Designation	Level & Index	Gross Amount (Rs.)
25	Mr. Naveen Singh Dindorya, Staff Nurse	L-07/I-03	90027.00
26	Ms. Jyoti Dahiya, A.R.O. (Pharmacognosy)	L-07/I-04	92130.00
27	Mr. Batule Manoj Ranjit, A.R.O. (Chemistry)	L-07/I-04	97530.00
28	Mr. Qadir Alam, A.R.O. (Pharmacology)	L-07/I-04	92130.00
29	Mr. M. Kalyankumarraju, A.R.O. (Pharmacology)	L-07/I-04	92130.00
30	Mr. Sudipto Debnath, R.A. (Chemistry)	L-06/I-04	75099.00
31	Ms. Susmita Mondal, R.A. (Chemistry)	L-06/I-04	73899.00
32	Mr. Ranjit Kumar Dey, R.A. (Chemistry)	L-06/I-04	73899.00
33	Ms. Simmi Mall, R.A. (Botany)	L-06/I-02	70005.00
34	Mr. Sandip Dalui, Pharmacist	L-06/I-14	97840.00
35	Mr. Debdas Rana, Pharmacist	L-06/I-11	90052.00
36	Mr. Abdul Jabbar, Pharmacist	L-06/I-11	90052.00
37	Mrs. Suchandra Mandal, Pharmacist	L-06/I-04	74299.00
38	Mr. Biplab Ganguly, Laboratory Technician	L-05/I-13	79432.00
39	Mr. Utpal Hazra, Laboratory Technician	L-04/I-16	76246.00
40	Mr. Subhas Chandra Panday, Laboratory Technician	L-05/I-17	88636.00
41	Mr. Raja Haldar, Dark Room Asstt.	L-03/I-12	60129.00
42	Mr. Ankit Kumar, Lower Division Clerk	L-02/I-02	38310.00
43	Mr. Magaram Hazra, MTS (Safaiwala)	L-02/I-17	62415.00
44	Mr. Virender Kumar, Tra MTS (Ani. Attd.)	L-01/I-08	41517.00

The budget allocation to each of its agency, indicating the particulars of all plans, proposed expenditures and reports on disbursements made

II.5. Details of the Budgetary Provision to the Institutes during reporting period: 2023-24

S. N.	Details of the Budgetary Provision to the Scheme	Budget Budget	Fund received	Actual expenditure
1	Grant in AID Salary Pay & Allowance	74,562,570.00	74,562,570.00	74,562,570.00
Total (1)		74,562,570.00	74,562,570.00	74,562,570.00
2	GIA - General			
a)	T.A. (for Demestic)	1,030,000.00	1,030,000.00	1,030,000.00
b)	Cotingencies as per DFPR			
i)	Wages	140,000.00	140,000.00	140,000.00
ii)	Office Expenses	3,000,000.00	3,000,000.00	3,000,000.00
iii)	Rent. Rate, Taxes	0.00	0.00	0.00
iv)	Other Admin Expenses (Hospital/Entertainment Expenses, Gifts, Expenses Conducted tour)	1,600,000.00	1,600,000.00	1,600,000.00
v)	Advertising and publicity	100,000.00	100,000.00	100,000.00
vi)	Professional Service (Payments for Professional and special service fees to staff/artist/payment to outsourcing agency	25,800,000.00	25,800,000.00	25,800,000.00
vii)	POL (Petrol/Lubricants)	100,000.00	100,000.00	100,000.00
viii)	Printing & Publication	100,000.00	100,000.00	100,000.00
ix)	Other Charges	1,800,000.00	1,800,000.00	1,800,000.00
c)	Research Activity	9,000,000.00	9,000,000.00	9,000,000.00
d)	Seminer & Conference including workshop/mela	1,200,000.00	1,200,000.00	1,200,000.00
	Total (2)	43,870,000.00	43,870,000.00	43,870,000.00
3	Swachta Action plan (SAP)	300,000.00	300,000.00	300,000.00
4	GIA - SCSP	3,879,999.00	3,879,999.00	3,879,999.00
	Total (1+2+3+4):	122,612,569.00	122,612,569.00	122,612,569.0 0
Details	of the Budgetary Provision to the Capita	l, Projects and others	during reporting per	riod
5	Creation of Capital Assets	138,103,647.00	138,103,647.00	138,103,647.0 0
6	Head Quarter TA	249,595.00	249,595.00	249,595.00
7	8th Ayurveda Day	350,000.00	350,000.00	350,000.00
8	Alife 2023	40,000.00	40,000.00	40,000.00
9	Training Programme	472,250.00	472,250.00	472,250.00
10	All Projects (IMR+EMR+Collaborative+AAP+Fe llowship+TSP)	45,646,557.00	45,646,557.00	45,646,557.00
	Total (1+2+3+4+5+6+7+8+9+10):	307,474,618.00	307,474,618.00	307,474,618.0

{ Section4(1)(b)(xii) }

The manner of execution of subsidy programmes, including the amounts allocated and the details of beneficiaries of such programmes:

Not Applicable

2. subsidy/discounts are available On user charges for certain stake holders such as bonafide students, govt. organizations, etc.

Particulars of recipients of concessions, permits or authorisations granted by it

Not applicable

{ Section4(1)(b)(xiv)}

Details in respect of the information available to or held by it, reduced in an electronic form

Available at CCRAS's website i.e. www.ccras.nic.in

Library:

<u>Publication for Sale</u>: The Library of this Institute has approx. 2200 Publications of CCRAS & Ministry of AYUSH, Govt. of India e.g. (Books/CDs) on Clinical Research, Drug, Research & Survey, Pharmacognosy, Pharmacology, Phytochemistry, Cultivation, Tribal Health Care Research Programme & Literary Research & JDRAS, JRAS, Journals etc. books for Sale. During Seminar's, Workshop Training Programmes, Health Camps approx. 71 Publication books were sold.

Accession Books: These books are for reference purpose are available in the Library for Officers & Staff. There approx. 3212 Books available on Ayurveda, Traditional Medicines, Chemistry, Pharmacology, Botany, Pharmacognosy, Hindi literatures & Sanskrit etc. Out of which approx. 1500 Books are related to Ayurveda. There are many books which were translated from various Manuscripts. These books are sorted as per different discipline & subject in the bookshelves and have been properly labeled for easy accessible. The Library Section has a separate Bookshelf for Hindi Books and they are categorized as per different subject viz. Literatures, Sanskrit/Hindi Grammar/Hindi Administrative Books.

<u>Annual Physical Verification</u>: A Committee was constituted for the Annual Physical Verification of Library Books. The Members of the Committee has done a remarkable job by physically counting the books, verified and submitted their reports to the competent Authority.

<u>Purchase of Books</u>: 26 sets of Standard Reference Books were purchased for the year 2023-2024 for value of approximately Rs. 1,35,000/- (Rupees One lakhs thirty five thousand) only as detailed below:

Title of Standard Reference Books	Publishers	Year of Publication
The Legacy of Susruta	Orient Black Swan Private Limited	2009
The Legacy of Vagbhata	Orient Black Swan Private Limited	2022
The Legacy of Caraka	Orient Black Swan Private Limited	2017
The Design And Manufacture of Medicines	Elsevier Limited	2022
Comparative Anatomy And Histology	Elsevier Academic Press	2018
Drug Regulatory Affairs	CBS Publishers & Distributors (P) Ltd	2020
Principles & Techniques of Biochemistry &	Cambridge University Press	2018
Molecular Biology		
The Theory and Practice of Industrial Pharmacy	CBS Publishers & Distributors (P) Ltd	2022
The Laboratory Rat	Elsevier Academic Press	2020
Remington The Science and Practice of Pharmacy	Elsevier Academic Press	2021
Indian Pharmacopoeia 2022 Vol: I to IV	The Indian Pharmacopoeia Commission	2022
Swamy's Handbook 2024	Swamy Publishers (P) Ltd	2024
Swamy's Income Tax on Salaries 2023-2024	Swamy Publishers (P) Ltd	2023
Swamy's Compilation of CCS CCA RULES	Swamy Publishers (P) Ltd	2024
Swamy's Compilation of CCS LTC Rules	Swamy Publishers (P) Ltd	2024

<u>Library Visits</u>: 10:00 AM to 05:00 PM. Officers & Staff are visiting the Library often and exploring these Books for benefit of their Projects, for Administration works and to improve the quality of the Research. Students, Research Scholars, Scientist of various disciplines and Faculty Members of Colleges, Institutions were visiting the Library. As and when require books are available in Library for public use.

{ Section 4(1)(b)(xvi)

The names.designations and other particulars of the PIO & APIO

		Name	Designation	Contact Number	Email ID
-	I.	Dr. G. Babu	Director & PIO	033- 2367 3808	gajjibabu@ccras.nic.in
	2.	Dr. A.K. Mangal	Asst. Director (Pharmacology) & APIO	033-2367 1002	ak.mangal@ccras.nic.in

Page **61** of **61**