

## RENJITH KUMAR K K

### SENIOR SCIENTIFIC OFFICER (MECHANICAL) i/c

Central Coir Research Institute (CCRI), Coir Board  
Ministry of Micro, Small and Medium Enterprises (MSME),  
Government of India



#### Contact Details

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#### Personal Information

- Date of Birth: 27.03.1987
- Nationality: Indian

#### Service Details

- Date of Joining Service: 17.06.2013
- Date of Superannuation: 31.03.2047
- Total Professional Experience: 16+ Years
- Experience at Coir Board: 15+ Years (Continuing)

#### Educational Qualification

- B.Tech in Mechanical Engineering  
Cochin University of Science and Technology (CUSAT)  
Batch: 2005–2009

#### Professional Experience

Over 15 years of experience in the R&D activities of coir processing machinery, including:

- Design and development of coir processing machinery
- Engineering machine design and structural fabrication
- Procurement and stores management in compliance with General Financial Rules (GFR)
- Purchase through Central Public Procurement Portal (CPPP), Government e-Marketplace (GeM), and Direct Purchase procedures

#### Areas of Specialization

- Engineering Machine Design
- Research, Development, Training & Extension (RD, T & E)
- Stores Purchase and Public Procurement Procedures

#### Residential Address

- Kadavath House,  
Meladoor P.O., Near Kalari Temple,  
Annamanada, Thrissur District – 680 741  
Kerala, India

## SERVICE AT COIR BOARD

**The Coir Board** is a statutory body established by the Government of India under the Coir Industry Act, 1953 (Act 45 of 1953), enacted by the Parliament of India. The Board is entrusted with the promotion and development of the coir industry and the expansion of export markets for coir and coir products across the country. Under its Plan Science & Technology (S&T) Scheme, the Coir Board aims to modernize the traditional coir industry, which largely relies on age-old equipment and technologies. To achieve this objective, the Board undertakes innovative research and development activities through its two premier research institutions: the Central Coir Research Institute (CCRI), Kalavoor, Alappuzha, Kerala, and the Central Institute of Coir Technology (CICT), Bengaluru, Karnataka.

Established in 1959, the **Central Coir Research Institute (CCRI)** is the principal research center of the Coir Board and is responsible for implementing all S&T programmes for the development of the coir industry. CCRI is recognized by the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India, as a Scientific and Industrial Research Organisation (SIRO). It is also recognized as a research center by Cochin University of Science and Technology and Mahatma Gandhi University, Kottayam, for guiding Ph.D. research scholars. The Microbiology Department of CCRI is recognized by the Australian Quarantine and Inspection Service (AQIS) for phytosanitary certification of coir pith. Additionally, the Bureau of Indian Standards (BIS) has recognized CCRI's Physical Testing Laboratory as an authorized center for testing coir and coir products.

The **Central Institute of Coir Technology (CICT)**, established in 1979 and located in Bengaluru, is a leading research institution under the Coir Board. CICT undertakes research in all aspects of coir technology, including coir fibre extraction, processing, process improvement, product development, diversification, waste management, and value-added utilization of coir fibre, with a particular focus on brown coir fibre.

Sl. No.	Position	Office	Period
1.	Senior Scientific Officer (Mechanical) i/c & Stores Officer	Central Coir Research Institute, Kalavoor	10.11.2025- till date
2.	Senior Scientific Officer (Mechanical) i/c & Stores Officer	Central Institute of Coir Technology, Bangalore	01.01.2024-09.11.2025
3.	Senior Scientific Officer (Mechanical) i/c & Stores Officer	Central Coir Research Institute, Kalavoor	24.11.2016-31.12.2023
4.	Officer In-Charge, Modern Dye House (Additional Charge)	Central Coir Research Institute, Kalavoor	01.02.2015-31.12.2023
5.	Senior Scientific Officer (Mechanical) i/c & Scientific Assistant (Engineering)	Central Coir Research Institute, Kalavoor	01.05.2014-23.11.2016
6.	Scientific Assistant (Engineering)	Central Coir Research Institute, Kalavoor	17.06.2013-30.04.2014
7.	Mechanical Engineer (Project)	Central Coir Research Institute, Kalavoor	01.11.2010-29.06.2012

## **INSTITUTIONS SERVED**

1. **SAUDI ARAMCO- SAUDI ARABIAN OIL COMPANY, KINGDOM OF SAUDI ARABIA** (Period of service: 02.07.2012 to 30.11.2012- 5 Months)

Saudi Aramco, officially known as the Saudi Arabian Oil Company (formerly the Arabian-American Oil Company), is a Saudi Arabian public petroleum and natural gas company headquartered in Dhahran. It is one of the largest companies in the world by revenue and holds the world's second-largest proven crude oil reserves, exceeding 270 billion barrels (approximately 43 billion cubic meters). Saudi Aramco also has the highest daily oil production capacity among all oil-producing companies globally. The organization has been identified as the single largest corporate contributor to global carbon emissions since 1965.

My service was as a **Mechanical Engineer** on the **Water Treatment Facility–3 (WTF-3) Project** at **Khafji Joint Operations (KJO)**, where I was involved in project execution and engineering activities related to water treatment operations.

2. **BHARATH PETROLEUM CORPORATION LIMITED- KOCHIN REFINERY (BPCL-KRL), GOVERNMENT OF INDIA, KOCHI, KERALA** (Period of service: 17.08.2009 to 30.10.2010- 1 Year 2 Months)

Kochi Refinery Limited (KRL), located in Kochi, Kerala, is one of India's major public sector crude oil refineries with a production capacity of 15.5 million tonnes per annum. Originally established as Cochin Refineries Limited and later renamed Kochi Refineries Limited, the refinery was acquired by Bharat Petroleum Corporation Limited (BPCL) in 2006. The facility is situated at Ambalamugal, approximately 12 km east of Kochi city center.

My service at **BPCL–Kochi Refinery Limited** was as a **Mechanical Engineer (Piping)** in the **Sulphur Recovery Unit (SRU)** under the refinery expansion project, where I was involved in piping engineering and project execution activities.

3. **OIL AND NATURAL GAS CORPORATION LIMITED (ONGC), GOVERNMENT OF INDIA, KARAIKAL, PONDICHERRY** (Period of service: 01.12.2008 to 31.12.2008- 1 Month)

Oil and Natural Gas Corporation Limited (ONGC) is a Central Public Sector Undertaking under the Ministry of Petroleum and Natural Gas, Government of India, headquartered in New Delhi. Founded on 14 August 1956, ONGC is the largest government-owned oil and gas exploration and production company in India, contributing approximately 70% of the country's crude oil production and about 84% of its natural gas output. In November 2010, ONGC was conferred the prestigious **Maharatna** status by the Government of India.

My service at **ONGC** was as part of an **Academic Project**, titled **“Study of Drilling Rig Equipment and Redesign of the Transmission System of the Rotary Table of a Drilling Rig.”** The project involved studying drilling rig components, operational mechanisms, and analyzing and redesigning the rotary table transmission system to improve performance and reliability.

## MAJOR R&D ACHIEVEMENTS AT COIR BOARD

Machine Developed/ Work Completed	Year of work
1. Power loom to weave thin variety of blended coir fabrics	2025-26
2. Coir yarn spinning machine using drafting mechanism	2025-26
3. Low cost Garden article pot making machine	2023-24
4. Annual cleaning work of 4 Ton Boiler No.K1085 and renewal of license from the Department of Factories & Boilers, Govt. of Kerala	“
5. Plant concept six head coir yarn spinning machine (Vertical, coreless)	2022-23
6. Doubling and Bobbin winding mechanism in one unit	“
7. Simplified version of Bobbin winding machine	“
8. Annual cleaning work of 4 Ton Boiler No.K1085 and renewal of license from the Department of Factories & Boilers, Govt. of Kerala	“
9. Vertical Model coreless Coir Yarn Spinning Machine (Prototype)	2021-22
10. Mini Fibre Extraction Machine for household units	“
11. Simplified version of Metallic Handloom for weaving coir geotextiles	“
12. Repair and operationalisation of machinery/ equipments installed at Modern Dye House	“
13. Repair and operationalisation of looms/ machinery/ equipments installed at Hindustan Coir Factory	“
14. Repair and operationalisation of machinery/ equipments installed at Effluent Treatment Plant (ETP) and renewal of license from Kerala State Pollution Control Board (KSPCB),Govt. of Kerala	“
15. Annual cleaning work of 4 Ton Boiler No.K1085 and renewal of license from the Department of Factories & Boilers, Govt. of Kerala	“
16. Power loom (Anugraha-Tejus) for weaving 2 meter width coir geotextiles	2019-21
17. Plant concept coir yarn spinning machine in association with Dr. MGR Educational and Research Institute, Chennai	2017-21
18. Annual cleaning work of 4 Ton Boiler No.K1085 and renewal of license from the Department of Factories & Boilers, Govt. of Kerala	2020-21
19. Sensor controlled coir yarn spinning machine in association with Federation of Indian Coir Exporters Association (FICEA)	2017-20
20. Annual cleaning work of 4 Ton Boiler No.K1085 and renewal of license from	2019-20

the Department of Factories & Boilers, Govt. of Kerala	
21. Annual cleaning work of 4 Ton Boiler No.K1085 and renewal of license from the Department of Factories & Boilers, Govt. of Kerala	2018-19
22. Annual cleaning work of 4 Ton Boiler No.K1085 and renewal of license from the Department of Factories & Boilers, Govt. of Kerala	2017-18
23. Power loom (Anugraha-Tejus) for weaving 1 meter width coir geotextiles	2016-18
24. Pre-Processing units (PPU) for slivering of coir fibres before spinning	"
25. Modified version of SWARNA fibre extraction machine	"
26. Annual cleaning work of 4 Ton Boiler No.K1085 and renewal of license from the Department of Factories & Boilers, Govt. of Kerala	2016-17
27. Spinning machine (Naveena) for producing thin verity of blended coir yarn	2015-16
28. Annual cleaning work of 4 Ton Boiler No.K1085 and renewal of license from the Department of Factories & Boilers, Govt. of Kerala	2015-16
29. Installation of Needle felt making machine in Coir Technology Incubation Centre	2013-15
30. Installation of Garden article making machine in Coir Technology Incubation Centre	"
31. Installation of Handmade paper making unit in Coir Technology Incubation Centre	"
32. Installation of Mini tufting machine in Coir Technology Incubation Centre	"
33. Setting up of International Coir Museum	"
34. Setting up of Coir Technology Incubation Centre	"
35. Development, modification and re-assembling of 100 years old power loom from M/s. Charankattu Coir Manufacturing Company Private Limited, Cherthala so as to weave thin blended coir fabrics	2012-13
36. Coir yarn spinning machine (Vajra) using Open End (Rotor) spinning technology	2010-13
37. Installation of advanced pneumatic weaving technology (Uday) in traditional wooden handlooms in 20 different coir societies in Kerala, Tamilnadu and Karnataka	"
38. Advanced pneumatic technology (Uday) for easy operation of wooden handlooms	2010-12

## TECHNOLOGIES DEVELOPED AND TRANSFERRED TO COIR INDUSTRY

Sl. No.	Technology	2025-2026	2020-2025	2015-2020	2010-2015	Total
1	Mobile Fibre Extraction Machine	2	09	12	45	68
2	Anugraha Handloom		02	06	30	38
3	Anupam Handloom			02	04	06
4	UdayPneumatic Handloom				20	20
5	Vajra Coir Spinning Machine		01	03	18	22
6	NaveenaCoir Spinning Machine		01			01
7	Mini Tufted Machine			03		03
8	Handmade Paper Unit			01		01
9	Anugraha-Tejus Power Loom (1M)	1	09			10
10	Willowing Machine	1	03	01		05
11	Corridor Mat Press		03	01		04
12	Mesh Mat Frame		02			02
13	Mini Fibre Extraction Machine	2	18			20
14	Rope Mat/ Sinnet Mat Frame		1			1
15	Mini garden article pot making machine		3			3
<b>Total</b>		<b>6</b>	<b>52</b>	<b>29</b>	<b>117</b>	<b>204</b>

## DEMONSTRATIONS CONDUCTED TO COIR INDUSTRY

Year	No. of Demonstrations conducted	No. of Participants attended
2010-2011	432	5030
2011-2012	394	4624
2012-2013	338	4284
2013-2014	310	4115
2014-2015	291	3851
2015-2016	283	3543
2016-2017	210	2973
2017-2018	246	4483
2018-2019	221	3731
2019-2020	426	4253
2020-2021	372	1985
2021-2022	428	1863
2022-2023	512	2108
2023-2024	596	2114
2024-2025	130	2911
2025-2026	412	1437
<b>Total</b>	<b>5601</b>	<b>53305</b>

## **R&D IN-HOUSE PROJECTS UNDERTAKEN**

1. Development of power Loom to weave thin variety of blended coir fabrics including manpower and material (As per the approved S&T action plan 2025-26).
2. Engagement of technical staffs (Mechanic, Helper Mechanic, Electrician) for the maintenance of Dye House machinery/ Hindustan looms/ ETP for a period of one year (2023-2024) (As per the approval of the Competent Authority, Head Office vide File No: J-16013/1/2023-CCRI).
3. Engagement of technical staffs at Engineering Department of Central Coir Research Institute, Kalavoor on contract basis for a period of one year (2023-2024) (As per the approval of the Competent Authority, Head Office vide File No: J-15045/1/2022-CCRI).
4. Engagement of technical staffs at Engineering Department of Central Coir Research Institute, Kalavoor on contract basis for a period of one year (2022 February-2023 January) (As per 239<sup>th</sup> Board Meeting held on 30.12.2021).
5. Repair and Operationalization of Effluent Treatment Plant (ETP) at CCRI, Coir Board Complex, Kalavoor, Alapuzha including the renewal of consent from Kerala State Pollution Control Board(As per 238<sup>th</sup> Board Meeting held on 27.09.2021).
6. Engagement of technical staffs at Engineering Department of Central Coir Research Institute, Kalavoor on contract basis for a period of one year (2021 February-2022 January) (As per 235<sup>th</sup> Board Meeting held on 22.12.2020).
7. The operation and trial run of 2 meter width power loom developed at CCRI, Kalavoor for weaving coir geo textiles in large quantity (As per 233<sup>rd</sup> Board Meeting held on 03.07.2020).
8. The operation and trial run of 10 head spinning machine developed by Dr. MGR University, Chennai as part of collaborative project with Coir Board (As per 233<sup>rd</sup> Board Meeting held on 03.07.2020).
9. Maintenance and repair of machinery installed at Dye House at Coir Board Complex, Kalavoor, Alappuzha for extending the services of Dye House on service charge basis (As per 233<sup>rd</sup> Board Meeting held on 03.07.2020).
10. Maintenance and repair of machinery installed at Hindustan Coir factory at Coir Board Complex, Kalavoor, Alappuzha for extending the services of Hindustan Coir on service charge basis (As per 233<sup>rd</sup> Board Meeting held on 03.07.2020).
11. Development of 2 Meter width automatic power loom "Anugraha-Tejas" for weaving coir geo-textiles (As per 228<sup>th</sup> Board Meeting held on 29.06.2018).
12. Functioning of Effluent Treatment Plant at CCRI and Testing of effluent water, Stack monitoring of Chimney, Bore Well water etc. (As per 226<sup>th</sup> Board Meeting held on 09.01.2018).

13. Running and monitoring of Engineering Tool room & Mechanical Workshop at CCRI and standardization of existing machinery developed by CCRI (As per 226th Board Meeting held on 09.01.2018).
14. Setting up of a preprocessing unit for slivering of the coir fibre before spinning of a uniform quality coir yarn (As per 219th Board Meeting held on 30.03.2016 & 224th Board Meeting held on 10.06.2017).
15. Development of an efficient, user-friendly modified version of Mobile Fibre Extraction Machine (Swarna) for production of good quality coir fibre (As per 219th Board Meeting held on 30.03.2016 & 224th Board Meeting held on 10.06.2017).
16. Development and up-gradation of “Anugraha loom” to fully Automatic power looms to weave coir geo textiles (As per 219th Board Meeting held on 30.03.2016 & 224th Board Meeting held on 10.06.2017).
17. Proposal for ascertaining the production performance of Pilot Unit for manufacture of PVC Tufted Coir Mat (As per 216th Board Meeting held on 25.03.2014).
18. Running and Monitoring of the tool room & mechanical workshop for the common facility services and research engagement of technical staff at CCRI / CICT (As per 213th Board Meeting held on 28.06.2013).
19. Purchase of Pneumatic Items & Air compressor for mat loom to convert in to UDAY Loom at 20 Societies (As per 211th Board Meeting held on 02.01.2013).
20. Conversion of wooden handloom for mats and mattings to pneumatic system for imparting training at NCT & DC, Kalavoor (As per 210th Board Meeting held on 05.10.2012).
21. Proposal for organizing field level Mobile Tool Room Service Facility under CCRI (As per 209th Board Meeting held on 29.06.2012).
22. Setting up of tool room for fabrication of improved version of coir processing machineries and development of versatile spinning machine (2010-2012).

### **R&D COLLABORATIVE PROJECTS UNDERTAKEN**

1. Design, analysis and development of advanced machineries for coir based product development under center of excellence (CoE) with Indian Institute of Technology, Madras (IITM) (As per 232<sup>nd</sup> Board Meeting held on 23.01.2020).
2. Development of coir processing machinery for spinning of fine quality of coir yarn of uniform thickness and reduced hairiness with Dr. M G R University (Educational & Research Institute), Chennai in association with M/s. Lakshmi Machine Works (LMW), Coimbatore (As per 224th Board Meeting held on 10.06.2017).
3. Development, Standardization and Fabrication of VAJRA spinning machine with M/s. Federation of Indian Coir Exporters Association (FICEA), Cherthala (As per 217th Board Meeting held on 23.06.2014).

## **R&D ACADEMIC PROJECTS UNDERTAKEN**

1. *“Sensor based fibre controlling device”* submitted to Saintgits College of Engineering, Pathamuttom, Kottayam in 2018.
2. *“Study and redesign of rotor type automatic coir spinning machine”* submitted to Cochin University of Science and Technology (CUSAT) in 2014.

## **PAPERS PUBLISHED**

1. G Vivek, M. Neeraj, H Hareesh, G Ajith, G Gireesh Kumar, **K K Renjith Kumar** & Anita Das Ravindranath. (2019) *“Development of fully automatic powerlooms (AnugrahaTejas) for coir geotextiles”*, *Indian Journal of Fibre & Textile Research.*, Vol.44 (358-359).
2. **Renjith Kumar K K**, Gireesh Kumar G, Ajith G, Hareesh H, Neeraj Krishna & Anita Das Ravindranath. (2017) *“AnugrahaTejas- A fully automatic power loom for weaving coir geotextiles”*, *Coir Kerala 2017, an International event on Coir & Natural Fibre Products.*

## **PATENTS FILLED/ GRANTED**

1. *“A fully automatic Power Loom to weave coir Geo textiles”*, filled vide Application No. 201741041316 dated 18th November 2017, **Renjith Kumar K K**, A Radhakrishnan, Gireesh Kumar G, Rejimon P Mathai, Ajith G, Hareesh H, Biju R, Das Anita Ravindranath and Radhakrishnan C P.
2. *“A fully automatic coir spinning machine to spin coir fibres into yarn”*, filled vide ApplicationNo. 502/KOL/2012 dated 7th May 2012, **Renjith Kumar K K**, Sudheer N S, Ajith G, Biju C, A Radhakrishnan, C R Komalakumar, T A Rajendrababu, S Radhakrishnan, Das Anita Ravindranath, P K Ravi and U S Sarma.

## **PAPERS PRESENTED**

1. Paper entitled *“Modern mechanization in Coir Industry”* is presented in the Regional Seminar *“R&D Technological Interventions on Coir for Sustainable Development”* organized by Regional Office, Coir Board, PollachiatKongunadu College of Engineering and Technology, Thottiyam, Trichy on 27.03.2023.
2. Paper entitled *“Modern mechanization in Coir Industry”* is presented in the Regional Seminar *“The Technological Interventions for Sustainable Development of Coir Industry”* organized by Regional Office, Coir Board, Kalavoorat Hotel Pagoda, Chungam, Alappuzha on 20.03.2023.

3. Paper entitled *"Latest advanced coir processing machinery developed by Central Coir Research Institute, Coir Board"* is presented in the "In-house R&D Training Programme for the Coir Board officials on the prevalent technologies developed by the Coir Board" organized by Central Coir Research Institute, Coir Board on 22.02.2023.
4. Paper entitled *"Coir processing machinery developed by Central Coir Research Institute, Coir Board"* is presented at Central Coir Research Institute, Coir Board on 07.01.2023 before Scientific Team from Amrita VishwaVidyapeetham, Kollam.
5. Paper entitled *"Advanced coir processing machinery developed by Central Coir Research Institute, Coir Board"* is presented in the Orientation Training Programme organized by Central Coir Research Institute, Coir Board on 08.03.2022.
6. Paper entitled *"Various coir processing machinery developed by Central Coir Research Institute, Coir Board"* is presented in the National Seminar organized in connection with the Konkan Coir Mahotsav at Sindhudug, Maharashtra on 25.02.2022.
7. Paper entitled *"Various coir processing machinery developed by Central Coir Research Institute, Coir Board"* is presented in Regional Seminar at Thunjan Memorial Hall, Thirur, Malappuram on 19.12.2021 conducted by Regional Office, Kalavoor/Kannur.
8. Paper entitled *"Various coir processing machinery developed by Central Coir Research Institute, Coir Board"* is presented in Regional Seminar at Karunagappally, Kollam on 30.11.2021 conducted by Regional Office, Kalavoor.
9. Paper entitled *"Modern coir processing machinery developed by Central Coir Research Institute, Coir Board"* is presented in online technical session at National level awareness program conducted by SRO Kannur in the month of November 2021.
10. Paper entitled *"Mechanization of coir and machinery developed by Coir Board"* is presented during the technical section carried out at CCRI, Kalavoor to Agricultural University, Thrissur in the month of November 2021.
11. Paper entitled *"Various coir processing machinery developed by Central Coir Research Institute, Coir Board"* is presented in Regional Seminar at Hotel Parayy Village County, Palakkad on 01.10.2021 conducted by Regional Office, Kalavoor/Kannur.
12. Paper entitled *"Various coir processing machinery developed by Central Coir Research Institute, Coir Board"* is presented in Regional Seminar at Hotel Malabar Palace, Kozhikode on 07.10.2021 conducted by Regional Office, Kalavoor/Kannur.
13. Paper entitled *"Various coir processing machinery developed by Central Coir Research Institute, Coir Board"* is presented in two days EDP training program at Bhudhanoor, Kollam on 10.11.2021 conducted by Regional Office, Kalavoor.

14. Paper entitled *“Modern weaving technology developed by Central Coir Research Institute, Coir Board”* is presented in Webinar at Coir Kerala-2020.
15. Paper entitled *“Innovative Technologies for coir and its processing application”* is presented in National Seminar at Hotel Le-Meridian, Coimbatore on 26.10.2016 conducted by Regional Office, Pollachi.
16. Paper entitled *“Innovative Technologies for coir and its processing application”* is presented in National Seminar "Natural Fibre Conclave" organized by Confederation of Indian Textile Industry (CITI) in Le-Maridien, Coimbatore, Tamil Nadu on 22.07.2015.
17. Paper entitled *“Latest coir processing machinery developed by Central Coir Research Institute, Coir Board”* is presented in National Seminar organized in connection with inauguration of International Coir Museum & Coir Technology Incubation Center at Coir Board Complex, Kalavoor on 27<sup>th</sup> May, 2014.
18. Paper entitled *“Fibre extraction, spinning and weaving technologies developed by Central Coir Research Institute, Coir Board”* is presented in National Seminar organized by Coir Board at Coimbatore on 8<sup>th</sup> February, 2014.
19. Paper entitled *“Rotor coir yarn spinning technology developed by Central Coir Research Institute, Coir Board”* is presented in National Seminar organized by Coir Board at Chethanalaya, New Delhi on 27<sup>th</sup> November, 2013.
20. Paper entitled *“Aircraft hydraulic system-A glance on power transmission system on an aircraft”* is presented at Cochin University of Science and Technology (CUSAT) in 2009 as a part of academic career.

## **TRAINING, SEMINAR/ WEBINAR, INDUSTRIAL/ OFFICIAL VISIT, AWARENESS PROGRAM/ WORKSHOP/EXHIBITION**

### **Training, Seminar/Webinar**

1. Completed online training on **AI Daksh** by Karmayogi Bharat, organized by Department of Personal & Training on 10 April 2026 as part of Sadhana Saptah.
2. Completed online training on **YUVA AI for All** by India AI, organized by Department of Personal & Training on 10 April 2026 as part of Sadhana Saptah.
3. Completed online training on **आर्टिफिशियल इंटेलिजेंस की मूल बातें :सीखना, अनुप्रयोग और नैतिकता** by Microsoft, organized by Department of Personal & Training on 10 April 2026 as part of Sadhana Saptah.
4. Completed online training on **Deep Tech and India** by Observer Research Foundation (ORF), organized by Department of Personal & Training on 10 April 2026 as part of Sadhana Saptah.

5. Completed online training on **प्रशासन के लिए उत्तरदायी एआई का उपयोग** by Wadhvani Foundation, organized by Department of Personal & Training on 10 April 2026 as part of Sadhana Saptah.
6. Completed online training on **सुशासन में एआई नैतिकता** by Wadhvani Foundation, organized by Department of Personal & Training on 08 April 2026 as part of Sadhana Saptah.
7. Completed online training on **युवा एआई फॉर ऑल** by India AI, organized by Department of Personal & Training on 08 April 2026 as part of Sadhana Saptah.
8. Completed online training on **Large Language Models: Concepts and Applications** by India Institute of Technology (IIT) Hyderabad, organized by Department of Personal & Training on 08 April 2026 as part of Sadhana Saptah.
9. Completed online training on **Governing with Artificial Intelligence** by Kyndryl, organized by Department of Personal & Training on 08 April 2026 as part of Sadhana Saptah.
10. Completed online training on **Fundamentals of Generative Artificial Intelligence** by India Institute of Technology (IIT) Madras, organized by Department of Personal & Training on 08 April 2026 as part of Sadhana Saptah.
11. Completed online training on **Core Areas of Artificial Intelligence** by India Institute of Technology (IIT) Madras, organized by Department of Personal & Training on 08 April 2026 as part of Sadhana Saptah.
12. Completed online training on **AI Applications in Government** by National E Governance Division (NEGD) MeitY Govt of India, organized by Department of Personal & Training on 08 April 2026 as part of Sadhana Saptah.
13. Completed online training on **Artificial Intelligence for Karmayogis** by Karmayogi Bharat, organized by Department of Personal & Training on 08 April 2026 as part of Sadhana Saptah.
14. Completed online training on **Leave Rules- Updated** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 07 April 2026.
15. Completed online training on **RTI and Good Governance** provided by National academy of Defence Production (NADP) Nagpur, organized by Department of Personal & Training on 07 April 2026.
16. Completed online training on **Annual performance Appraisal Report (Hindi)** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 27 March 2026.
17. Completed online training on **Jan Bhagidari Program (Hindi)** provided by Illumine Knowledge Resources, organized by Department of Personal & Training on 27 March 2026.
18. Completed online training on **Beginner Course for GeM Buyer** provided by the Government e- Market Place (GeM), organized by Department of Personal & Training on 27 March 2026.

19. Completed online training on **Handling CAT Cases** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 27 March 2026.
20. Completed online training on **Fundamentals of Public Policy** provided by the Indian Institute of Management, Bangalore organized by Department of Personal & Training on 27 March 2026.
21. Completed online training on **Jan Bhagidari Program (English)** provided by Illumine Knowledge Resources, organized by Department of Personal & Training on 27 March 2026.
22. Completed online training on **Critical Thinking** provided by the ISB Hyderabad, organized by Department of Personal & Training on 27 March 2026.
23. Completed online training on **Financial Administration** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 27 March 2026.
24. Completed online training on **Evolution and Overview of Public Financial Management System** provided by the Department of Expenditure, organized by Department of Personal & Training on 27 March 2026.
25. Completed online training on **Delegation of Power in day to day Administration** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 26 March 2026.
26. Completed online training on **Dos and Don'ts of Social Media** provided by the Indian Institute of Mass Communication (IIMC), organized by Department of Personal & Training on 26 March 2026.
27. Completed online training on **Contract Management** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 26 March 2026.
28. Completed online training on **CCS (CCA) Rules Part 1- CCS CCA Rules- An Overview and Suspension** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 26 March 2026.
29. Completed online training on **Right to Information Act- Part 2** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 26 March 2026.
30. Completed online training on **Right to Information Act- Part 1** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 26 March 2026.
31. Completed online training on **Developing Effective Soft Skills** provided by the Central Reserve Police Force (CRPF), organized by Department of Personal & Training on 26 March 2026.
32. Completed online training on **Central Secretariat Functionaries- Role of an Assistant Section Officer (ASO)** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 26 March 2026.
33. Completed online training on **Rashtriya Karmayogi Large Scale Jan Seva Program** provided by the Capacity Building Commission with Knowledge Partner - Illumine Knowledge Resources, organized by Department of Personal & Training on 06 October 2025.

34. Completed online training on **Work Ethics** provided by the Indian Railway Institute of Transport Management (IRITM), organized by Department of Personal & Training on 13 November 2025.
35. Completed online training on **Charge sheet under CCS (CCA) Rules 1965** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 13 November 2025.
36. Completed online training on **Conduct of Inquiry in Disciplinary Matters** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 12 November 2025.
37. Completed online training on **Annual Performance Appraisal Report (APAR)** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 15 July 2025.
38. Completed online training on **Conduct Rules** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 15 July 2025.
39. Completed online training on **Vigilance Clearance** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 22 April 2025.
40. Completed online training on **Preventive Vigilance** provided by the **RAKNPA**, organized by Department of Personal & Training on 22 April 2025.
41. Completed online training on **Vigilance Angle** provided by the Defence Headquarters Training Institute (DHTI), organized by Department of Personal & Training on 22 April 2025.
42. Completed online training on **Leave Rules** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 29 November 2024.
43. Completed online training on **GFR 2017- General System of Financial Management** provided by the Defence Accounts Department (DAD), organized by Department of Personal & Training on 29 November 2024.
44. Completed online training on **Constitutional Provisions at Workplace** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 26 November 2024.
45. Completed online training on **Prevention of Sexual Harassment of Women at Workspace** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 15 October 2024.
46. Completed online training on **Introduction to Emerging Technologies** provided by the Capacity Building Commission, organized by Department of Personal & Training on 15 October 2024.
47. Completed online training on **Orientation Module on Mission LIFE** provided by the Ministry of Environment, Forest and Climate Change, organized by Department of Personal & Training on 15 October 2024.

48. Completed online training on **Stay Safe in Cyber Space** provided by the Indian Cybercrime Coordination Centre-14C, organized by Department of Personal & Training on 15 October 2024.
49. Completed online training on **Code of Conduct for Government Employees** provided by the Institute of Secretariat Training and Management, organized by Department of Personal & Training on 15 October 2024.
50. Completed online training on **Yoga Break at Workplace** provided by the Morarji Desai National Institute of Yoga (MDNIY), organized by Department of Personal & Training on 15 October 2024.
51. Attended one day regional seminar on “**Improving the cost and quality competitiveness of the MSME in coir sector**” at AIMS Institutes, Peenya, Bangalore on 26.09.2025 organised by Regional Office, Coir Board, Bangalore.
52. Attended in one day training program on “**Preventive Vigilance**” at Hotel Abad Plaza, MG Road, Kochi on 01.11.2023 organised by Coir Board.
53. Attended in one day training program on “**GeM**” at Hotel Abad Plaza, MG Road, Kochi on 02.11.2023 organised by Coir Board.
54. Attended a webinar on “**Procurement Corruption**” organised by Coir Board on 01.11.2022 as part of vigilance awareness week.
55. Attended in in-house training programme on “**General Financial Rules (GFR), Government e- Marketing (GeM), Central Public Procurement Portal (CPPP), Direct Beneficiary Transfer (DBT) and Digital Transaction for Board’s Officials**” at Hotel Luminara, Ernakulam organised by Kerala State Productivity Council during the period from 25.11.2019 to 26.11.2019.
56. Attended in one day training programme on “**Best practices in Energy Efficiency and Management for Industrial Category**” at Kerala State Productivity Council, Kalamassery, Ernakulam on 28.10.2014.
57. Attended “**HSE Training Programme**” organised at Bharath Petroleum Corporation Limited- Kochi Refinery, Ambalamugal during the period from 22.09.2009 to 24.09.2009.

#### **Industrial/ Official Visit**

58. Visited “**M/s. Fibre World, Muhamma, Alapuzha**” on 01.10.2024 to study the possibilities of conversion of tufted mat waste materials in to value added products and development of Shredding Machine.
59. Visited “**M/s. Travancore Cocotuft Pvt. Ltd., Cherthala, Alapuzha**” on 30.09.2024 to study the possibilities of conversion of tufted mat waste materials in to value added products and development of Shredding Machine.

60. Visited “**M/s. TMMC Pvt. Ltd., Cherthala, Alapuzha**” on 28.09.2024 to study the possibilities of conversion of tufted mat waste materials in to value added products and development of Shredding Machine.
61. Visited “**M/s. Cosy NatuurPvt. Ltd., Thottapally, Alapuzha**” on 26.09.2024 to study the possibilities of conversion of tufted mat waste materials in to value added products and development of Shredding Machine.
62. Visited “**M/s. Extra Weave Private Limited, Cherthala, Alappuzha**” on 11.11.2022 to study the operation of different pre & post spinning process of Sisal.
63. Visited “**M/s. Travancore Mats &Mattings Private Limited, Cherthala, Alappuzha**” on 10.11.2022 to discuss about the coir yarn spinning process and present yarn quality requirements.
64. Visited **Central Institute of Coir Technology, Bangalore** in connection with the inspection of different coir processing machinery during the period from 22.08.2022 to 25.08.2022.
65. Visited **INTEC 2022 (International Machine Tools & Industrial Trade Fair)** organized between 02.06.2022 to 06.06.2022 at Codissia Trade Fair Complex, Coimbatore.
66. Visited **Dr. MGR Educational and Research Institute, Chennai, Tamil Nadu** on 09.10.2021 for the review of the collaborative project with Coir Board.
67. Visited **Indian Institute of Technology, Chennai, Tamil Nadu** on 08.10.2021 for the review of the collaborative projects under Centre of Excellence with Coir Board.
68. Visited **Dr. MGR Educational and Research Institute, Chennai, Tamil Nadu** during the period from 20.04.2021 to 22.04.2021 for the joint evaluation of machinery with Indian Institute of Technology, Madras.
69. Visited **Dr. MGR Educational and Research Institute, Chennai, Tamil Nadu** during the period from 24.02.2021 to 25.02.2021 for the review of the collaborative project with Coir Board.
70. Visited “**M/s. Palm Fibre India Private Limited,Alappuzha**” on 12.03.2020 to study different pre & post weaving process of Jute and other natural fibres.
71. Visited **Dr. MGR Educational and Research Institute, Chennai, Tamil Nadu** on 29.11.2019 for the review of the collaborative project with Coir Board.
72. Visited **Regional Office, Bhubaneswar** in connection with the visit of Hon. Minister of State for MSME, Govt. of India for inauguration of LBI centre during the period from 19.08.2019 to 26.08.2019.
73. Visited **Dr. MGR Educational and Research Institute, Chennai, Tamil Nadu** on 24.01.2019 for the review of the collaborative project with Coir Board.
74. Visited **Dr. MGR Educational and Research Institute, Chennai, Tamil Nadu** on 05.12.2018 for the review of the collaborative project with Coir Board.

75. Visited **Regional Office, Bhubaneswar** in connection with the visit of Hon. Secretary, MSME, Govt. of India for reviewing the coir development activities in Odisha during the period from 23.10.2018 to 29.10.2018.
76. Visited **Dr. MGR Educational and Research Institute, Chennai, Tamil Nadu** on 17.09.2018 for the review of the collaborative project with Coir Board.
77. Visited **Dr. MGR Educational and Research Institute, Chennai, Tamil Nadu** on 01.08.2018 for the review of the collaborative project with Coir Board.
78. Visited **M/s.Singai Coir Cluster, Singampunari** during the period from 25.06.2018 to 27.06.2018 to evaluate the performance of PVC Tufting Unit.
79. Visited **M/s. Vaari Textile Machine India Limited**, a machinery manufacturing company located at Komarapalayam, Namakkal District, Tamil Nadu on 14.05.2018 to discuss in detail about the idea and possibility of converting Rapier loom for coir yarn weaving.
80. Visited **Dr. MGR Educational and Research Institute, Chennai, Tamil Nadu** on 07.05.2018 for the review of the collaborative project with Coir Board.
81. Visited **Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu** on 19.03.2018 to evaluate the performance of coir spinning machine developed in collaboration with Federation of Indian Coir Exporters Association, Cherthala.
82. Visited **Dr. MGR Educational and Research Institute, Chennai, Tamil Nadu** on 08.11.2017 for the review of the collaborative project with Coir Board.
83. Visited **Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu** on 31.10.2017 to evaluate the performance of coir spinning machine developed in collaboration with Federation of Indian Coir Exporters Association, Cherthala.
84. Visited **M/s. Voltas Textile Ltd Company, Coimbatore** during the period from 25.08.2016 to 27.08.2016 to discuss about the technology of Rapier Loom and its possibilities to convert in to the use of coir yarn.
85. Visited **Kankayan Coir Cluster, Pollachi** during the period from 25.08.2016 to 27.08.2016 to understand the need of Pith Dryer and also to evaluate the performance of solar pith drier developed at Kankayan Cluster, Pollachi.
86. Visited **M/s. Kurlon Enterprise Limited & M/s. 2M Engineers, Bangalore** during the period from 18.01.2016 to 20.01.2016 in connection with the selection of Coir Industry Award 2014-2015.
87. Visited **Regional Extension Centre, Coir Board at Thanjavur, Tamilnadu** on 03.11.2015 to evaluate the performance of different coir processing machinery.
88. Visited **PSG College of Technology, Coimbatore** on 02.11.2015 and had a detailed discussion with the Principal and Shri. Ram Mohan, HOD Textile Department regarding the machinery developed under Collaborative project with Coir Board.

89. Visited **Tirupur District Coconut Fibre and Pith Block Manufacturers Association and Garden article making units & Coir pith grow bags & pith processing units at Pollachi** during the period from 03.09.2015 to 06.09.2015 to get the general awareness about the process.
90. Visited **“M/s. Charankattu Coir Manufacturing Company Private Limited, Cherthala, Alappuzha”** on 05.06.2015 to study different pre & post weaving process.
91. Visited **“M/s. Extra Weave Private Limited, Cherthala, Alapuzha”** on 30.04.2011 to study different pre & post spinning process of Sisal.
92. Visited **“M/s. Travancore Mats & Mattings Private Limited, Cherthala, Alapuzha”** on 01.03.2011 to study different pre & post spinning process of Jute.
93. Visited **“M/s. Trivandrum Spinning Mills Limited, Balaramapuram, Thiruvananthapuram”** on 14.02.2011 to study different pre & post spinning process of cotton.
94. Visited **“M/s. Komalapuram Spinning and Weaving Mill, Komalapuram, Alappuzha”** on 26.01.2011 to study different pre & post spinning process of cotton.

#### **Awareness Program/Workshop/Exhibition**

95. Attended three days **Entrepreneurship Development Programme** at AIMS Institutes, Peenya, Bangalore on 24<sup>th</sup>, 25<sup>th</sup> & 27<sup>th</sup> September 2025 organised by Regional Office, Coir Board, Bangalore.
96. Participated in **“Coir Marathon”** organised by Coir Board at Coimbatore, Tamil Nadu on 06.05.2022.
97. Participated in **“MSME National Coir Conclave”** organised by Coir Board at hotel Le-Maridien, Coimbatore, Tamil Nadu on 05.05.2022.
98. Participated in **“MSME Mega Event”** organised by Coir Board at Kankvli, Sindhudurg, Maharashtra during the period from 24.02.2022 to 28.02.2022.
99. Attended in the inaugural ceremony of **new Regional Office at Kankvli, Sindhudurg, Maharashtra** during the period from 24.02.2022 to 28.02.2022.
100. Participated in **“Online Coir Kerala-2021”** organised by State Coir Department, Government of Kerala at EMS Stadium, Alappuzha.
101. Participated in **“Coir Kerala-2019”** organised by State Coir Department, Government of Kerala at EMS Stadium, Alappuzha.
102. Attended in the **“National level workshop on Central Public Procurement Portal (CPPP)”** at Stein Hall, India Habitat Centre, New Delhi on 21.01.2019.
103. Attended meeting at the **O/o. The Industries Commissioner and Director of Industries & Commerce, Guindy, Chennai** on 02.11.2018 in connection with the formation of three Coir Clusters in Tamil Nadu under the scheme for Developing Coir Clusters of the Government of Tamil Nadu.

104. Participated in “**Coir Kerala-2018**” organised by State Coir Department, Government of Kerala at EMS Stadium, Alappuzha.
105. Participated in “**Coir Kerala-2017**” organised by State Coir Department, Government of Kerala at EMS Stadium, Alappuzha.
106. Attended in the “**Management Development Programme of Procurement Policy Division, Ministry of Finance, Government of India on Public Procurement**” at National Institute of Financial Management (NIFM), Faridabad during the period from 07.08.2017 to 12.08.2017.
107. Participated in “**Coir Kerala-2016**” organised by State Coir Department, Government of Kerala at EMS Stadium, Alappuzha.
108. Participated in “**Coir Kerala-2015**” organised by State Coir Department, Government of Kerala at EMS Stadium, Alappuzha.
109. Participated in “**Natural Fibre Conclave**” organised by Confederation of Indian Textile Industry (CITI) at hotel Le-Maridien, Coimbatore, Tamilnadu on 22.07.2015.
110. Attended in the “**Executive Development Programme for Coir Board Officials**” at National Institute for Micro, Small and Medium Enterprises (ni-msme), Yusafguda, Hyderabad during the period from 06.05.2015 to 07.05.2015.
111. Participated in “**Coir Darshan**” organized by Coir Board at Coir Board Complex, Kalavoor on 27..05.2014 as part of inauguration of International Coir Musuem and Coir Technology Incubation Centre.
112. Participated in “**Coir Kerala-2014**” organised by State Coir Department, Government of Kerala at EMS Stadium, Alappuzha.
113. Participated in “**India International Trade Fair-2013 at PragatiMaidan, New Delhi**”.
114. Participated in “**Silver Jubilee Celebration of Coir Board at Chethanalaya, New Delhi**” on 27.11.2013.
115. Participated in “**Coir Kerala-2013**” organised by State Coir Department, Government of Kerala at EMS Stadium, Alappuzha.
116. Participated in “**Coir Kerala-2012**” organised by State Coir Department, Government of Kerala at EMS Stadium, Alappuzha.
117. Participated in “**Coir Kerala-2011**” organised by State Coir Department, Government of Kerala at EMS Stadium, Alappuzha.

#### **APPRECIATION FOR PERFORMANCE**

1. Appreciation from **M/s. Travancore Mats and Matting Pvt. Ltd., Cherthala** for developing a robust and reliable prototype single head single ply coir Spinning machine which may be converted into a multi head machine to meet industry requirements with high productivity and quality in the year 2023.

2. Appreciation from **Hon. Chairman, Coir Board** for the invention of “Anugraha-Tejus” Power Loom for weaving coir geotextiles in large quantity in the year 2018.
3. Outstanding Performance Award for the arrangement of R& D display/ dissemination of technologies in **Coir Kerala-2016** held at Alleppey in Kerala.
4. Appreciation from **Director (RDTE)** for the development of 6 head “Naveena” spinning machine for blended coir yarn in the year 2015.
5. Award of Outstanding Performance for the arrangement of R& D display/ dissemination of technologies in **Coir Kerala-2014** held at Alleppey in Kerala.
6. Appreciation from **Hon. Chairman, Coir Board** for setting up of Coir Technology Incubation Centre at Coir Board Complex, Kalavoor in the year 2014.
7. Appreciation from **Hon. Chairman, Coir Board** for setting up of International Coir Museum at Coir Board Complex, Kalavoor in the year 2014.
8. Award of Outstanding Performance for the arrangement of R& D display/ dissemination of technologies in **Coir Kerala-2013** held at Alleppey in Kerala.
9. Award of Outstanding Performance for the invention of Rotor based “Vajra” Coir Yarn Spinning Technology by **Hon. TKA Nair, Prime Minister’s Principal Secretary**, New Delhi in the venue of Silver Jubilee Celebration of Coir Board at Chethanalaya, New Delhi in the year 2013.
10. Appreciation from **Director (RDTE) & Advisor (CCRI)** for the development and re-assembling of 100 years old power loom from M/s. Charankattu Coir Manufacturing Company Private Limited, Cherthala and also for the modification of the same loom for weaving thin blended coir fabrics in the year 2013.
11. Appreciation from **Director (RDTE) & Advisor (CCRI)** for the introduction of new class of coir yarn spinning technology (Rotor Model) in the year 2013.
12. Appreciation from **Federation of Indian Coir Exporters Association (FICEA)** for the introduction of new class of coir yarn spinning technology (Rotor Model) in the year 2012.
13. Appreciation from **Hon. Chairman, Coir Board** for the invention of “Vajra” Coir Yarn Spinning Machine during the year 2010-2012.
14. Award of Honour by **Shri. Punnala Sreekumar, General Secretary of Kerala Pulayar MahaSabha** for the best academic and professional achievements in the year 2014.
15. Award of Honour by **Shri. P Rajeeve, Member of Indian Parliament (Rajya Sabha)** for the best academic and professional achievements in the year 2013.