



HEALTHCARE
CONSULTING



TECHQUEST
INNOVATIONS PVT.LTD.



Count on us...



TECHQUEST

TechQuest Innovations Pvt. Ltd is a relatively new company founded in 2019, but the team has been around for more than 25 years in Healthcare Industry. We are a Team of well experienced Professionals with prime objective of providing “Turn Key Solutions” in the Healthcare Industry. We offer Project Management Consultancy in Healthcare Projects ***from conceptual stage to the commissioning stage.*** This includes the Concept Designing, Space Planning, Architectural works, MEP Design and Equipment Planning for the Turnkey Healthcare Projects. We also undertake Upgradations of existing hospitals, Upgradation/ Modernization of the existing Modalities.

TECHQUEST OBJECTIVE

- Bringing Global Standards in every aspects of Hospital Design.
- Incorporating the best of the globally available Technology.
- Uplift the Healthcare Process to the standards of International level.
- Focus on Bringing Green Protocol in projects for a better environment for the generations to come.
- To work with a passionate focus on customer satisfaction and operational excellence, maintaining the highest honesty and integrity.
- Assuring Return On Investment (ROI) in every sq.ft. of area by professionally and functionally designed projects.





TECHQUEST APPROACH

Bring in a pragmatic design to projects by zoning the hospital functionalities, work flow management of different departments, space and patient flow planning from registration till discharge, and in the coordinate design of MEP services of HVAC, MGPS, F&S, IT Works, BME, Waste Management Systems.



TECHQUEST STRENGTH

Professional hospital design team in all disciplines of Architecture, Structural, Electrical Services, Public Health Engineering Services, Mechanical Services, Waste Management Services, Clinical Services, Software and Software Integration Services, Hardware and Functional Integration of HIS, PACS with Laboratory, Radiology, CSSD & Medical Equipments adhering to Infection Control protocols.



TECHQUEST CAPABILITIES

All our design comply to international and domestic safety standards as well as the statutory rules and norms.

TECHQUEST HEALTHCARE

- ⊕ Healthcare facilities in India have witnessed dramatic changes with affordable health insurance, Medical Tourism gaining momentum in India due to its cost advantage and better treatment facilities due to technology and availability of World class professionals in Health Care.
- ⊕ Our healthcare industry is poised to grow at rapid pace in the years to come due to is huge requirement of additional beds per population. The requirement is minimum 01 hospital bed per 1000 population were we are at 0.7 bed per 1000 population as per WHO.
- ⊕ Need of incorporating standards / external auditing
- ⊕ Pragmatic approach, Inter-relationships of various functions, significant circulation patterns, Future Expansion and Modernization of facilities need careful integration in the hospital design.
- ⊕ With this new scenario in mind, a Hospital has to be designed with better returns on investment, economical and cost effective treatment for patients in a healing environment. We are sure that we have the strength and capability to meet this requirement of our clients.



TECHQUEST CAPABILITIES IN HEALTHCARE

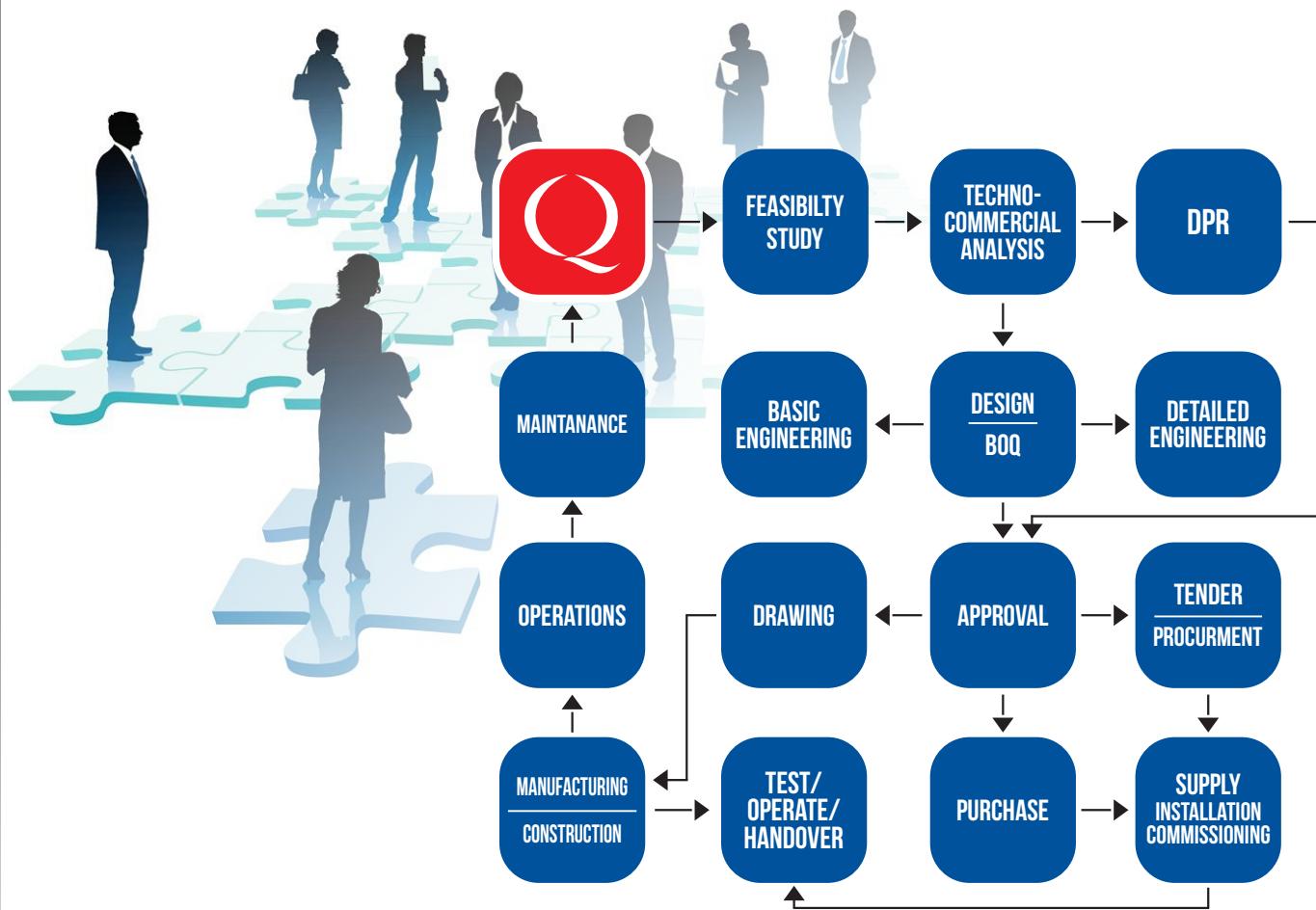
- ⊕ We Under take PMC for hospital project including Civil, Architectural, Electrical, Mechanical, Biomedical Engineering Services, Facility Planning, Procurement, Installation, Calibration against Safety standards, Commissioning and Clinical Training of Medical Equipment to the end users.
- ⊕ Our MEP Design takes Three Major Factors into consideration which are Compact in space, Low capital expenditure and Low operational expenditure.
- ⊕ Stick to EHS Norms, Compliance, Code and all statutory regulations. We follow healthcare norms laid down by statutory bodies like NABH, MCI, JCI, HTM for efficient design.
- ⊕ Compact AHU Space, Plant and Shaft Design.
- ⊕ Quality air, Circulation and pressure for operating theaters, HEPA filters & Infection control, Modular Operation Theater (OT).
- ⊕ Positive and negative pressure rooms for patient isolation to avoid cross contamination and thus maintaining hygiene.
- ⊕ Laminar flow for special theaters and clean workrooms.





- ⊕ Maintaining air changes per hour for Air Filtration to maintain good air quality inside the Hospital.
- ⊕ Exact Humidity and Temperature control for operating and maintenance of Equipments and comfort for User and patients.
- ⊕ Efficient electrical supply systems with 100% Back up power , with electrical safety norms in OT and ICU thus preventing leakage currents for protecting patients and Equipments.
- ⊕ Potable and good quality of water supply systems.
- ⊕ Fire Protection system
- ⊕ Ambient Lighting
- ⊕ Medical equipment is the key component of Health Care delivery chain, by our expertise we manage it professionally to procure the desired equipment with mandatory BOQ that stands to be universally accepted specification, suiting the requirements of end user and management , train BMEs to maintenance to BOT model for a fixed period.
- ⊕ Our healthcare expertise helps in preparing the product specifications, BOQ in discussion with the promoters and end users to finalize the scope with total project value.
- ⊕ Preliminary drawings, Room lay out with detailed micro planning details to suit the functional requirements.
- ⊕ Working drawings for Piped medical gas ,Nurse call ,Pneumatic tubing system, IT Requirements including Hospital management system, PACS etc.
- ⊕ Core concentration on setting up new facility, selection of equipment/vendor, negotiation, and installation of medical equipment.
- ⊕ Pre-dispatch Inspection/Performance/Acceptance Testing/ Regulatory approvals/ Calibration against safety standards and Documentation with Operating and Maintenance Manuals.
- ⊕ Warranty and post warranty support, plant PM schedule as per industry standard, online asset management





Q TECHQUEST WHAT WE DO

ENGINEERING & PROJECTS

DESIGN & ARCHITECTURE

- Conceptual Design
- Master Planning & Zoning
- Engineering Design
- Advance Medical Equipment & System Design
- Interiors & Exterior Architecture
- Hospital Signage

ENGINEERING

- Structural, Civil, Architectural Engineering
- MEP and Fire & Safety
- Bio Medical Engineering



MANAGEMENT

- PMC - Project Management Consultancy
- Project & Construction Management
- Waste Management
- Work flow Management



SOLUTION / SERVICES

- Modular Operation Theater / Hybrid OT
- Integrated Health IT
- Infection Control Planning & Clean Rooms
- Information Technology & Healthcare IT
- Turnkey Projects Services
- IT Integration & Solutions
- Hospital Upgradation
- Landscape Design & Solutions
- Medical gas distribution system
- CSSD & Infection control
- Laundry, Kitchen
- Pneumatic tubing distribution system
- Waste management system
- Mortuary
- Telemedicine



PLANNING

- Medical Equipment Planning
- Sourcing, Specification & Estimation
- Micro planning to all clinical areas
- Co-ordinate details incorporating all the services
- Facility Planning
- Functional Requirement Planning



ACCREDITATION & CERTIFICATION

- Space Planning based on AIA, NHS, BIS or
- MCI Guidelines Academics



FEASIBILITY & DPR

- DPR Preparation
- Techno Commercial Analysis

COMMISSIONING OPERATIONS & MANAGEMENT



HUMAN RESOURCES MANAGEMENT

- Manpower planning
- Establishment of HR policies
- The process of selection and appointment of doctors and nurses
- Identification and selection of other technical staff
- Selection and appointment of necessary operational and administrative staff
- Imparting proper training to all the staff



IT IMPLEMENTATION

- Establishing the complete hardware system including servers and networks
- Establishing communication systems including highly efficient call centre
- Selection of the appropriate Hospital Information System
- Implementation of the software and training of end users



COMMISSIONING THE PHARMACY SYSTEMS

- Getting all the statutory licenses
- Populating the supplier details in the system
- Preparation of the Hospital Drug Formulary
- Establishing quality systems in the Pharmacy

FUNCTIONALIZING CLINICAL LABORATORY SERVICES

- Installation of all the equipment
- Implementation of Laboratory Integration System (LIS)
- Laboratory tariff finalization
- Training of the laboratory staff



COMMISSIONING OF RADIOLOGY SERVICES

- Completion of statutory licensing processes
- Identification of RSO (Radiation Safety Officer) and establishing operational protocol
- Implementation of Radiology Integration System (RIS)
- Implementation of Picture Archiving and Communication System (PACS)



SETTING UP OF SURGICAL WORK PLACES

- Operation theater commissioning
- Establishing the OT store and systems
- Commissioning and testing of all the OT equipment
- Establishing Theater Sterile Supply Unit (TSSU)
- Commissioning the Central Sterile Supply system (CSSD)
- Setting up of Outpatient Department
- Setting up of Inpatient Department (Wards, rooms and Nursing stations)



SETTING UP OF CRITICAL CARE UNITS

- Multi-Disciplinary ICU
- Surgical ICU
- Cardiac ICU
- Neonatal ICU
- Setting up of Emergency Department
- Setting up of all the clinical Departments
- Setting up of Dialysis Unit, Endoscopy suites, Labour suites etc.
- Establishing the Customer Care Department
- Finalizing and procurement of Uniforms for various staff categories
- Establishing House Keeping services
- Establishing Security services
- Establishing F & B services
- Setting up of SOPs in all departments
- Establishing proper internal communication systems
- Healthcare Finance
- Finalisation of the Business plan
- Tariff fixation
- Budget preparation
- Establishing Supply Chain Management system



BRANDING, PR AND MARKETING

- Development of proper branding policy
- Preparation for the launch through PR activities
- Putting in place proper marketing activities
- Completion of the process of getting all the necessary statutory licenses
- Establishing the Quality Assurance Department and start working towards accreditations

OPERATIONAL MANAGEMENT

- Branding, Public Relations (PR) and marketing
- Operations
- Financial control



ENGINEERING



BIJU Y.P.
C.E.O.

Alumna of 1st Batch of qualified Bio-Medical Engineering Professional from Kerala. Associated with Global Leaders in Healthcare like Siemens, Getinge, Maquet, Agfa, etc. in various activities for the past 25 years. Key person to redefine Bio-Medical Engineering concept in Health sector. Core person to launch L&T Medical with new mode of Dealership net work in Healthcare industry. Vast experience in handling the need of Design & Development of healthcare facilities, Medical infra-structural design and management BOQ with procurement process. Specialized in Turn key solutions with remarkable achievement in Govt. Medical College Hospital, Kottayam, Dist. Cancer Care Center, Pathanamthitta etc.



SATISH KUMAR G.
HEAD-TECHNOLOGY & INNOVATION

An accomplished professional with nearly 22 years' in business leadership. Rich experience in all aspects of Business formation, Operation, Management, Marketing, Sales, Service Operations, Client Relationship Management, Training and Team Management with well-known organisations. Excellent business-to-business sales skills and talents, with comprehensive knowledge in brand imaging, product presentations, pricing, and promotions. Significant experience in offering Consultancy & Project Management services in setting-up CSSD's, Operating Rooms and ICU's in healthcare facilities. Handled prestigious projects across India with vast experience in multi chain tertiary care hospital groups like Apollo, Colombia Asia, AIIMS, KIMS, Aster, Reliance, Care hospitals, Fortis etc.



DR. S. RAJAMOHAN
HEAD & CONSULTANT-ENVIRONMENTAL ENGINEERING

Dr.Rajmohan is an Academician and Environmental Engineer who is actively involved in setting up Environmental and Waste Management projects across India. He holds his Masters degree in Environmental Engineering and Ph.D in Environmental Engineering .With years of academic experience as a Professor in a leading engineering institution, he later has pioneered as a Technocrat in Environmental Engineering field, primarily in Consulting services, Turnkey Projects, Operation and maintenance and laboratory services for past 20 years. With his vast years of experience in Environmental filed, he could execute and fast track MEGA environmental engineering projects which now crossed more than 200 projects, including industrial projects like Health Care ,Textiles, Pharmaceutical ,Food and Rubber industries.



SARIN MOHAMMED SALIM
HEAD-DESIGN & ARCHITECT

Our principal architect, has more than ten years of experience in architectural design & construction. A graduate from TKG College of Engineering (Kollam), he ensures flawless design execution through creative leadership. He is active in the architectural education sphere as a speaker and jury, and has been a consultant architect for events like 'Manorama Parpidam'. His designs are known to seamlessly blend modern elegance with socio-climatic requirements. His expertise spans in multiple sectors including hospitals and healthcare. He has been associated with the design and execution of various segments in major hospitals including Cosmopolitan Hospital (Trivandrum),KIMS cancer centre (Trivandrum),St Gregorios International Cancer Care Centre (Parumala),Unity Mother & Child Hospital (Mangalore),Sree Uthradom Thirunal Hospital (Trivandrum).



SANJEEV SUDHAKAR
HEAD-HOSPITAL PROCUREMENT

Qualified and experienced Procurement / Bio Medical Manager / Equipment planner with hands on experience in repair and maintenance of medical equipments and other health care support facilities. Experienced in equipment assessment, technical specification, tendering, purchasing condition preparation and product selection. Familiar with the International standards regulations, guidelines and documentation works for ISO, DQA, NABH, NABL, ACHSI, JCI & CAP accreditations. Approved faculty for DOTT courses. Experienced in designing departments for specialty medicine, room data sheets, equipment and furniture distribution as per local and international standards.

ENGINEERING



AJITH GOPALAKRISHNAN

HEAD-BUSINESS DEVELOPMENT

Post graduate in Microbiology with vast exposure on infection control practices, entrepreneur & business development professional with extensive business background in multi-cultural environments. Exposed to South India and Middle East Markets. Expertise in establishing working partnership with professionals like KOL's and KBL's as well. 14 years experience in healthcare having worked with Abbott India Ltd, Glaxo smithkline Pharmaceuticals India Ltd, Care N Cure Group – Doha, Qatar, Tulip Diagnostics Pvt Ltd.



RAGI MATHAI

HEAD-IT DESIGN & INTEGRATION

With immense experience in IT field of more than 20 years Ragi Mathai is a pioneer in IT Consultancy Services, System Integration and IT business development areas. Ragi has proven experience as IT Consultant, IT Turnkey Projects, LAN/WAN implementation projects, IT Project management services, Design, Integration of multi OEM environment, DC/DR build and IT security solution projects etc. Mr. Ragi has on hand experience working with multinational conglomerates in the IT sector. He had been handling key positions in the industry giants like TCS Ltd, IBM, Nortel Networks, and CMC etc. He has his B-Tech degree in E&C from prestigious Mahatma Gandhi University, Kerala in 1994, he also holds an MBA in IT Systems from Maher University Chennai as well a PG Diploma in Computer Hardware. Experienced in handling IT health care infrastructures and setting up ERP solutions and PACS Systems. IT integration of equipments and systems is one of his core strengths.



GEETHA GIRISH

HEAD-CIVIL & STRUCTURAL ENGINEERING

Expert Consultant in Civil & Structural Engineering, which include structural consultancy , preparation of plans, estimation etc. of buildings of all types as per the requirement of the clients. Structural consultancy works of various projects of Architects inside and outside Kerala (Chennai, Bangalore etc.) are being done. Nearly 500 projects completed. Got experience in working with Anagha Consultants, M/S. Shappoorji Pallonji as Project Engineer for their project at MRPL, Mangalore.



SHAMEEM AHMED S.

HEAD-FIRE & SAFETY ENGINEERING

A competent Engineering professional with around 7 years of Extra Low Voltage Systems Experience in all the major areas like Presales, Solution Design, Project Management including Installation, Commissioning, Handing over and Maintenance.



VARUN BABY P.G.

HEAD-MEP DESIGN & INTEGRATION

Got experience in providing a complete MEP Solutions with the latest Technologies and systems available today for the building services for all type of Projects (Commercial, Hospitality, Health care, Educational institutions, Residential, Assembly buildings and Industrial Projects). Provides complete MEP Services Designs (HVAC [Heating Ventilation Air Conditioning System], Fire Detection & Protection System, PHE [Public Health Engineering], Electrical & Low Voltage Systems) as per the standards and requirements of the project. Preparation of the Techno Commercial proposal, Tender documents, detailed budgetary estimate and separate layout drawings, schematic drawings for all services & Co-ordination layouts with details. Recent Projects includes MALL GRANDE AT KADAPRA, RESORT AT ALUVA, TATA SHOWROOM.



DR P MOHANAKRISHNAN

CHIEF MEDICAL DIRECTOR

After his MBBS degree and PG in Otolaryngology, Dr Mohanakrishnan started his career as an ENT Surgeon and later on, he expanded his interests into Healthcare Administration. He attained his MBA in Healthcare Services and adorned CEO position in various hospitals in Kerala and outside India. He is a prominent personality in South India in the field of Healthcare Consultancy. He has expertise in establishing hospitals, commissioning hospitals and successfully managing hospitals. Now he is the Chief Medical Director of TechQuest Innovations.



P K NARENDRAN

CONTROLLER - PROJECTS

After 23 years of service in Indian Air Force, Wing Commander Narendran prove his leadership capabilities in various walks of life. The biggest asset is his experience as Healthcare Consultant and Project Manager of multiple hospital projects in India and abroad. He is an overall management expert. He is astute in Project Management, high level recruitments, in-house business development and in Emotional Intelligence. He implements discipline and punctuality in project management as imbibed through his defence services, which adds laurels to his leadership qualities.



AJAI SHANKAR

CONSULTANT - HOSPITAL COMMISSIONING & OPERATIONS

Ajai has adorned the COO position of many prominent hospitals in Kerala and outside Kerala. He has gained invaluable experience in the field of Healthcare facility operations through more than three decades long service. His strength is his authoritative knowledge in Profit and Loss (P&L) management, Strategic Planning, Lean Management, Total Quality Improvement (TQI), Information Technology in Healthcare, Service Excellence and so on within the gamut of Hospital Operations. He gained expertise through education and training and through years of experience in successfully developing business management systems, implementation of protocols (SOP) and in commissioning of multispecialty hospitals.



DR SUKUMAR VENGAIL

CONSULTANT - MEDICAL ADMINISTRATION

After his MBBS degree, Dr Sukumaran did his post-graduation in General Surgery and established his name as an excellent Surgeon and a well respected teacher. His passion in healthcare management especially on the clinical side enabled him to establish in record time a multi specialty hospital in Sultanate of Oman, which won the laurels within two years of operations. Dr Sukumar is well known for his clinical administrative capabilities and his capabilities in management and teaching.



DR SATHYAJITH RAMVIHAR

CONSULTANT - LABORATORY MEDICINE & INFECTION CONTROL

Dr Sathyajith after his MBBS and MD in Clinical Microbiology, established himself as an eminent Clinical Microbiologist. His additional qualification in the field of Infection Control made him a passionate Infection Control Physician, which is of paramount importance in all the hospitals. He is also adept in establishing Clinical Laboratories in hospitals and has functioned as the head of the department of clinical laboratory medicine. His experience in the field of clinical laboratory medicine and in the critical area of infection control are immense value additions to the consultancy services.



AFNIDA
CONSULTANT – HEALTHCARE QUALITY

Experience and knowledge in the field of Healthcare Quality, spanning over a period of more than 15 years is Afnida's biggest strength. She also has experience and passion in the fields of Healthcare project commissioning and in operations management of hospitals. She has unmatched knowledge and expertise in all the processes connected with NABH accreditation of hospitals and clinics. She was a prominent member of the team which was instrumental in getting the first NABH accreditation in India in the segment of multi specialty hospitals.



JINCY GEO
CONSULTANT – HEALTHCARE HR MANAGEMENT

Jincy has significant experience in the field of Human Resources management, especially in Healthcare. She has immense expertise in the entire process of recruitment, staff training and welfare management and in implementation of HR policies. She has practical experience in three major hospitals in Kerala.



SAJEESH GOPALAN
CONSULTANT – HEALTHCARE BRANDING AND PR

Sajeesh is a well-known personality in Kerala and outside through his work experience of more than two decades in the field of Public Relations. He has wealth of knowledge in the field, through his stints as head of various establishments, as a journalist and as a Public Relations expert in India and abroad. He is the founder director and CEO of the globally known PR company, PR9, which has functioned as PR consultants to major hospitals in Kerala.



CA ASHWIN SIMON
CONSULTANT – HEALTHCARE FINANCE

Ashwin qualified as a Chartered Accountant at the Age of 23. He had his initial days of career at Morrison Qatar. He has over 13 years of experience in the field of Accounting, Audit and Taxation. His area of experience includes Financial and Tax advisory, Systems Audit, Internal Audits, Concurrent Audits, financial consultancy in the field of Healthcare, trading and manufacturing industry, administrative and support service and education. He also has completed the post qualification courses such as ISA, Certified Concurrent Auditor, Certificate Course in GST and is a Fellow member of the Institute of Chartered Accountants of India.

EXPERT PANEL



VIJAYA KUMAR.L FORMER CHIEF ENGINEER & HOD RCC TVPM

Graduate of Electrical & Electronics Engineering with more than 30 years (25 years in a major Hospital-RCC TVPM) Er.L.Vijayakumar worked in the Regional Cancer Centre (RCC), Thiruvananthapuram since the last 25 years. Joined in the RCC Engineering Division as Asst: Maintenance Engineer on 29/06/1990. During the service worked in the capacities of Maintenance Engineer, Maintenance Engineer Grade-1, Chief Maintenance Engineer I/C and Chief Construction Engineer and HOD of all Engineering Divisions with the major responsibilities of Hospital Maintenance, Construction Projects and Renovation projects of the Regional Cancer Centre, Thiruvananthapuram. Also held the position of Convener, Building Committee, RCC.



GEORGE THOMAS PROJECT MANAGEMENT CONSULTANT

Alumni of Legendary REC, now NIIT Kozhikode. Served in multinational organizations like Siemens AG as technocrat handled capital equipment in healthcare. Overall 30+ years of Experience in Healthcare with 15 years in Project Management, Medical Equipment Engineering , Hospital Project management in Medical Colleges, Tertiary care Super speciality hospitals like Aster Medicity-Cochin, Gokulam Medical College, Travancore Medicity, WIMS Wayanad, Azeezia Medical College, Vadakara Co-operative Hospital.



B. SASIDHARAN CIVIL & STRUCTURAL CONSULTANT

B. Sasidharan, an eminent civil engineer by profession from College of Engineering – Trivandrum, is blended with 45 plus years of rich experience in the areas of buildings, bridges and harbor. He was associated with Central Public Works Department and Kerala Public Works Department for 28 years and had the unique track record of time bound project completion, meeting the quality standards. After retirement from state service, he is active with his expertise in private sector.



ADV. K. VIJAYACHANDRAN SOCIAL WELFARE PROJECT CONSULTANT

K.Vijayachandran- Lawyer by profession , passionately devoted time and expertise in social development projects and programs from the early years of his professional life. Educated and trained from Europe on inclusive social and human development issues, been associating with Local self government institutions and state government programs for the last 30 years. He has been instrumental for the implementation of some of the sustainable human and social development projects in Kerala as well as in other states. Worked as expert member in the board of directors of State Youth Welfare Board and has been associating with Local self government institutions as consultant for the implementation of innovative projects . Association with international institutions on sustainable community development program helps him to inculcate best practices in the conceptualization of local action plans .



RAMESH MADHAVAN HEAD-IT PROJECTS

Post Graduate in Management with 25 years of experience in IT in diversified domains like Utility, Product Marketing, Services Marketing and Solutions marketing to BFSI, Telecom, Government, ITES, SME segment. Handled different Geos. in South India. Total 29 years of experience in Information Technology and Business Development working with companies like HCL Comnet & IBM. Experienced mentor and Business transformation specialist.

SMART HEALTH SOLUTIONS THROUGH PROFESSIONAL HANDS



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