



SHYMA K BABU

Objective

Sr. Biomedical – Hospital Industry with 13 years of diverse experience in the fields of Administration, Procurement, Vendor management, Planning, Design and Implementation of Biomedical projects - seeking a position in Biomedical / Clinical core to utilize my technical & managerial knowledge and experience for the organization’s as well as my career’s growth and stability

Professional Experience

Works as **Sr. Biomedical** in

Regional Cancer Centre (Govt) – Trivandrum, Kerala

June 2011 to Present

Worked as **Biomedical & Process Facilitator** in

Travancore Medical College, Kollam

March 2008 to May 2011

Worked as **Biomedical & Process Facilitator Assurance** in

Dr. Nairs Hospital, Kollam

From April 2006 to March 2008



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Present Address:

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Personal Data

Date of Birth: May 29, 1986
Sex: Female
Nationality: Indian
Marital Status: Married

Passport No: **M 5294020**

Certification

- **NABH Internal Assessor - AHPI, Delhi**
- **Medical Device Quality Assurance – Fluke Biomedical, USA**
- **Hospital Safety & Occupational Health – CMC Vellore, India**
- **International Training on Procurement Management in Health – MOH, Govt of India**
- **Participation of National Seminar on Testing & Calibration of Biomedical & Radiological Equipment’s - HLL, Govt of India**
- **Engineering Principles and Applications of Magnetic Resonance Imaging**

Technical Training

- Training in Technical Product Education (GE Healthcare, FLUKE)
- Training in Computed Tomography, Magnetic Resonance
- Training in AW for Diagnostic Imaging, Patient Monitoring Systems
- Training in Molecular Imaging – Nuclear Medicine
- Training in Anesthesia & Respiratory, Diagnostic cardiology, PET

Education



B-Tech in Electronics & Communications

Kerala University, Govt. College of Engineering
Trivandrum (CET)



Diploma in Medical Electronics/ Biomedical Engineering

Board of Technical Education, Model polytechnic College,
Vadakara

Technical & Managerial Skills:

- Operation & Maintenance of a wide spectrum of medical equipment and systems. Enrichment in preventive and breakdown maintenance of various medical equipment.
- Actively worked on document management of all the equipment of hospital comes under Biomedical Engineering during the NABH audit and along with that equipment handling training given to other Staff.
- Configuration and maintenance of Remote Installation with the help of FE's.
- Node designing and installation, clearing the cable path for two-way communication.
- Prepare technical Training Materials, Conduct Training Sessions Effectively.
- Technical Documentation for new Solutions and Products, SOP and MOP Preparation
- Administration and troubleshooting of Medical Equipment's
- Experience in purchase planning, cost determination, purchase of medical equipment & materials.
- Ensuring compliance to quality standards and maintaining all quality control documents.
- Healthy relationship management & negotiation skills with the ability in imparting continuous on the job training to the team.
- Configuration and maintenance of Remote Installation with the help of FE's.
- Node designing and installation, clearing the cable path for two-way communication.
- Prepare technical Training Materials, Conduct Training Sessions Effectively.
- Maintenance of medical equipment on component level.
- Detailed Application Training of various medical equipment.

Professional Experience

1- Regional Cancer Centre (NABH Accredited), Trivandrum, Kerala **(Joint control of Government of India & State Government)**

Title: **Sr. Biomedical (Administration, Purchase, Procurement & Maintenance management)**

Period: June 2011 to Present

Job Profile:

Team Size - 4

- Technical expert of Technical committee & Purchase committee at Regional Cancer Centre, Trivandrum
- Member of Infection Control Committee at Regional Cancer Centre, Trivandrum
- Member of Quality task workforce of Regional Cancer Centre, Trivandrum
- Member of Safety committee of Regional Cancer Centre, Trivandrum
- Served as Technical Expert of the Technical committees at Cochin Cancer Centre, Rajiv Gandhi Centre for Biotechnology and Research Centre, Kerala Medical Service Corporation

Project Handling and Co-ordination

- Design, installation & commissioning modular Operation Theatres
- Designing of Central Sterile Supply Department and setting up of medical infrastructure including all equipment's and machineries
- Design, Managing & Supervision of Centralized Medical Gas supply system, Clinical infrastructure, providing medical equipment's, providing clinical facilities in 10 storeyed OP, IP and Research.
- Design, Co-ordination & Managing of project setting up 14 Operation Theatres in different major specialties of oncology & 30 bedded surgical oncology ICU
- Design, Co-ordination and managing of project of setting up of 6 Modular Operation Theatre,30 bedded ICU, Central Medical Gas Supply System, Central Pneumatic Drug Delivery system, Central Nurse Call System in the newly started project of 14 storeyed building of Regional Cancer Centre, Trivandrum
- Selection, Installation & Commissioning of
 1. Flat Panel Fluro DR (Shimadzu).
 2. Digital Mammography & Prone Biopsy Table(Hologic).
 3. PET CT (GE - Discovery)
 4. GE SPECT CT
 5. GE SPECT GAMMA
 6. CT Scanner
 7. Higher End Ultrasound with Shearwave Elastography and fusion navigation(Supersonic).
 8. Radio Frequency Ablation and Treatment Navigation System
 9. Energy devices: - Vessel Sealer (J&J, Olympus), Medtronic
 10. HD laparoscopic system (Stryker, Storz)
 11. Flexible Video Endoscopic system (Olympus, Pentax, Storz)
 12. Co2 LASER
 13. Operating Table (Schmitz, Merkur, Maquet,Benq) , Operating light (Trumf ,Martin , Drager etc), OT Pendant (Drager)
 14. Nerve Monitoring System
 15. Anaesthesia Workstation (Drager, GE)
 16. ICU Ventilator (Drager, Maquet, GE, Medtronic)
 17. Critical Care Multiparameter Monitors (Philips, GE, Mindray)
 18. Drug delivery units (Fresenius, TOP, Smith, B-Braun, BD)
 19. Fully Automated Biochemistry Analyser (Ortho Clinical Diagnostics)
 20. Fully Automated Immunology Analyser (Roche, Biomeriux)
 21. Fully Automated Serology Analyser (OCD, ROCHE)
 22. Fully automated flow cytometry unit (BD)
 23. Liquid Based Cytology (Trivitron)
 24. Fully Automated Immunology Stainer (Roche)
 25. RT PCR (Roche,ABI, Thermo)
 26. General instruments of Biochemistry, microbiology,Blood bank , RIA,Research and Pathology lab (Terumo Penpol,Thermo,Eppendorf,Helmer)
 27. General Surgery Instruments (Storz. Stryker, Asculap, SISCO)
 28. Radiotherapy Equipment (Varian, Elekta)
 29. Apheresis Machine (Terumo, Fresenius,Haemonetics)
 30. Safety Cabinets (Cytotoxic,biosafety,laminar) –(ESCO, Fasters, Heel force, Thermo)

- Provide training to new nursing staffs and care providers on medical equipment installed in ICU, OT & other clinical divisions.
- Regional Cancer Centre's operating system facilitator to streamline the nonclinical processes for departments such as Pharmacy, ER, ICU, Pathology and Radiology.
- Responsible & accountable for overall Operation of Biomedical Engineering Department.
- Responsible for Procurement and installation of over 750 Biomedical Equipment.
- Managing all site health and safety, quality of workmanship including its assurance and control.
- Monitoring and verification with progress of work as per the prior designs
- Responsible for Training, validation, day to day activities of Field Engineers
- Follow up the Preventive maintenance schedule and calibration schedule for medical equipment.
- To follow up with the vendors for any breakdown under annual maintenance contract equipment.
- Update the aging list on daily basis for medical equipment.
- Meet with in charges of critical care departments on weekly basis.

2- Travancore Medical College - Kollam

Title: **Biomedical Engineer & Process Facilitator**

Period: March 2008 to May 2011

Job Profile:

- Handling technical & operational activities of installing biomedical equipment.
- Updating the inventory of all types of medical equipment installed in the hospital.
- Maintenance and troubleshooting of biomedical equipment clinically as well as technically.
- Coordination with service personnel of various medical equipment companies.
- Follow up the Preventive maintenance schedule and calibration schedule for medical equipment.
- To follow up with the vendors for any breakdown under annual maintenance contract equipment.
- Meet with in charges of critical care departments on weekly basis.
- Responsible & accountable for overall Operation of Biomedical Engineering Department.
- Responsible for Procurement and installation of Biomedical Equipment.
- Oversee the functioning of biomedical engineers at hospital, to maintain the biomedical equipment & keeping downtime to minimum.
- Design Database for Medical Equipment Management.
- Liaising with the Site Engineer for co coordinating and ensuring that the awarded scope of work is completed on time.
- Managing all site health and safety, quality of workmanship including its assurance and control.
- Monitoring and verification with progress of work as per the prior designs.

Project Handling and Co-ordination

- Design and setting up of different modalities such as 80 bedded Medical ICU, Surgical ICU, Cardiac ICU, Nauro ICU, Pulmonary ICU, Operation theatres (Major Specialties & Super Specialties), Wards, OP's & associated area's etc. - Year
- Design, Installation & Commissioning of Centralized Medical Gas Supply System in 1000 bedded Hospital –
- Design, Co-ordination & Managing of project setting up 11 Operation Theatres in different major specialties of oncology & 30 bedded surgical oncology ICU

3- Dr. Nairs Hospital, Kollam

Title: **Biomedical Engineer & Process Facilitator**

Period: April 2006 to March 2008

Job Profile:

- Handling technical & operational activities of installing biomedical equipment.
- Provide training to new nursing staff on medical equipment installed in ICU & other clinical divisions.
- Maintain the documentation for biomedical equipment.
- Updating the inventory of all types of medical equipment installed in the hospital.
- Maintenance and troubleshooting of biomedical equipment clinically as well as technically
- Coordination with service personnel of various medical equipment companies.
- Follow up the Preventive maintenance schedule and calibration schedule for medical equipment.
- To follow up with the vendors for any breakdown under annual maintenance contract equipment.
- Update the aging list on daily basis for medical equipment.
- Meet with in charges of critical care departments on weekly basis.
- Responsible & accountable for overall Operation of Biomedical Engineering Department.

Core Competencies

1. Strategy, Vision & Mission Planning
2. Medical Technology Leadership
3. Hospital Information Management systems
4. Contract Negotiations & Strategic Alliances
5. Cost Management
6. Policy & Procedure Development
7. Government Regulations & Relations
8. Team Building & Performance Improvement
9. Procurement & Operations Management.
10. Biomedical Equipment Management.
11. Inventory Management
12. Leadership, Planning & Control

Personal Skills:

- Comprehensive problem-solving abilities, excellent verbal and written communication skills, Ability to deal with people diplomatically, Fast learner, Team facilitator. As an individual, I consider myself conscientious, honest and frank.
- Technical, Analytical and interpersonal skills.
- Computer skills: Window XP/Vista; (MS-Excel, MS-Word, MS-Power Point) Internet, Assembly Languages 8086 & 8259, Mat lab version -7, C, C++ and other basic etc.

Declaration

I hereby declare that the above given information is true and correct to the best of my knowledge and belief.

SHYMA K BABU