

## RECOGNITION OF PRIOR LEARNING APPLICATION - 2018

This document is required to be completed for all Recognition of Prior Learning (RPL) Application types and must be attached to the online application form under the RPL tab in PDF format.

In this document there are two sections that all applicants must complete

- [The Key Areas of Knowledge – Section 1](#)
- [The Project Report Forms – Section 2](#)

RPL applications are for those applicants who do **not** hold a recognised tertiary ICT qualification and who have a minimum of 6 years of closely related experience. Please refer to the [Summary of Criteria](#) for further information.

This document provides the opportunity for applicants to demonstrate knowledge learnt throughout their professional experience.

<b>Applicant Name</b>	BUSINESS ANALYST
<b>Application ID (if known)</b>	
<b>Applicant Date of Birth</b>	

## SECTION 1 – KEY AREAS OF KNOWLEDGE

### INFORMATION ABOUT THE AREAS OF KNOWLEDGE

Please read the following document to assist you in completing Section 1 of this document - [The ACS Core Body of Knowledge for ICT Professionals \(CBOK\)](#).

Applicants must detail the relationship between the selected Areas of Knowledge and their learning from their experience and qualifications. This section of the RPL application needs to be specific as to how and where the applicant has acquired the knowledge.

The ICT Key Areas of Knowledge:

#### Essential Core ICT Knowledge

##### Topic 1. ICT Professional Knowledge

Sub Topics are -

- Ethics
- Professional Expectations
- Teamwork Concepts and Issues
- Communication
- Societal Issues

##### Topic 2. ICT Problem Solving

Sub Topics are -

- Modelling Methods
- Processes to understand problems
- Methods and tools for handling abstraction



### General ICT Knowledge

Topic 3. Technology Resources

Sub Topics are -

- a. Hardware and Software Fundamentals
- b. Data and Information Management
- c. Data Communications and Networking

Topic 4. Technology Building

Sub Topics are -

- a. Human Factors
- b. Programming
- c. Information Systems Development and Acquisition

Topic 5. ICT Management

Sub Topics are -

- a. IT Governance and Organisational Issues
- b. IT Project Management
- c. ICT Service Management
- d. Security Management

You are required to select one topic from the Essential Core ICT Knowledge (Topic 1 or Topic 2) and one topic from the General ICT Knowledge (Topic 3, Topic 4 or Topic 5). Please ensure you address at least 2 subtopics from each of the topics chosen. In the following expandable typing areas, explain **how you have acquired your in-depth knowledge** in these topic areas through your professional experience.

### **Important:**

- **Identify the Area of Knowledge topic that you have chosen to explain by entering the name of the Area of Knowledge topic in the box.**
- **Explain, in the expandable typing area, how you have acquired the knowledge and illustrate the depth of that knowledge.**
- **You should NOT address all sub topics included in the Area of Knowledge in your explanation. Address at least TWO of the sub topics. Enter the sub topic name(s) in the box.**
- **Be clear and concise in your explanation.**
- **Limit each explanation to no more than one to one and a half pages.**

### **Essential Core ICT Area of Knowledge:**

#### **Topic 1. ICT Professional Knowledge (PK)**

#### **PK1. Teamwork Concepts and Issues**

#### **PK2. Communication**

How have you acquired this knowledge in your working environment? Illustrate your depth of knowledge.

After Graduating in Science and Management I joined Reliance Industries as an executive in Business analysis unit of IT department, which analyses the ongoing process and recommends any improvement needed to the higher management. I have been associated with various sites of the reliance such RIL Nagothane, RIL Jamnagar Mega Site, Reliance Foundation Projects Etcetera.

During my engagement with various projects with different sites I learned and excelled in my six years of experience. Reliance is the right organisation where you can make a perfect blend of your previously attained qualification and the professional learning you get while working on projects with right management methodologies.

**PK1. Teamwork Concepts and Issues**

Ever since, I joined Reliance in 2011, right from the very first day I started learning the concepts of the teamwork. We were 72 executives who joined the organization through the same recruiting drive and initially we were divided into small teams so that we can understand and get fit into the team synergy. Subsequently, I was made the team member of the Planning team and worked on the BRIBS (Biometrics Recognition, identification and Blacklisting system) project. With my career growth I have promoted and held various positions within the team, by this I understood the intricacies related to each position and how I can manage a team which can provide the effective results within stipulated timeframe and outcome should be suitable to the end user by doing the User Acceptance tests.

During my career, I have lead and managed various project teams not only being a leader or a manager but also core team member. An ICT project has various phases and comes with the related difficulties and above all the deadlines which needs to be met. To complete everything on time and within the allocated budget, I always emphasizes on following concepts:

- ✓ I should have teamwork values in-line with the reliance standards
- ✓ Blueprints of each project must be shared with each team member and his associated responsibilities
- ✓ Earmark team member to share each other's responsibilities for contingency plan.
- ✓ During brainstorming session, solving the idea's conflicts
- ✓ All means of communication whether written, oral, online, offline via presentations or through email must clear without any ambiguity.
- ✓ Assigning responsibilities as per the competence level but at the same time also ensured that overall professional growth of each team member should be met.

At last, while managing the teams, the quality outcome of the projects must be met, where you need to satisfy the user's need. As a team lead I should be ready to accept any changes required after project implementation phase and made my team ready to handle such issues in best possible manner.

**PK2. Communication**

Communication is the integral part of any project because the deadlines and cost effectiveness solely depend upon the right communication at the right time. While working with Business Analysis unit, I have been taught and I also understood the importance of the communication. After understanding the project needs, I had to disseminate the information within the team, so as, right sort work can be provided to the user. Hence, I always made sure that method of communication to all stakeholders must be appropriate and in return they can also provide me the necessary feedback.

So as, to bring everyone in the same loop, I used various means of communication, such as;

- ✓ Live meeting: Gathering of team members at the same location
- ✓ Conference call: A telephone call in which several people participate
- ✓ Audio conference: Like a conference call, but conducted online using software like Skype

- ✓ Computer-assisted conference: Audio conference with a connection between computers that can display a document or spreadsheet that can be edited by both parties
- ✓ Video conference: Like an audio conference but with live video of the participants. Some laptop computers have built-in cameras to facilitate video conferencing
- ✓ IM (instant messaging): Exchange of text or voice messages using pop-up windows on the participants' computer screens
- ✓ Texting: Exchange of text messages between mobile phones

Nevertheless, meeting personally with stakeholder during one to one chat improved my own interpersonal skills and I always grabbed the opportunities of meeting the team member and other stakeholders to have better understandability of their thought process.

### General ICT Area of Knowledge:

#### Topic 1. ICT Management (IM)

Sub Topics are -

- a. IT Project Management
- b. Security Management

How have you acquired this knowledge in your working environment? Illustrate your depth of knowledge.

**IT Project Management** During my association with Reliance, I been through many Project Stages and to manage the ICT projects efficiently, I acquired the much-needed knowledge by undergoing the in-house trainings and experience when associated with the projects. These training were conducted at;

- ✓ Reliance Security & Risk Management Academy, Accredited to R-University.

It was the time when my company's Chairman Mr. Mukesh Ambani observed and felt that a business transformation is required, and we need to make our organisation a technology driven place and need to digitised and automate the several slow running primitive processes. Subsequently, many projects were introduced. I got associated with several such projects, such as, giving common platform to entire warehouse system using SAP (System application protocol for data processing) or when during association with Reliance Foundation Hospital implemented Patient and Staff tracking system using RFID technology and two of such projects I have mentioned in detail in the below given project reports.

During the association with projects I got hands-on experience of the project management. I carried out tasks with WBS (work breakdown structure) and assigned the responsibility as per individual's forte, analysed the ongoing practices & platforms and when needed, did MOC (Management of Change). Further, I had to make sure the projects should be cost effective by analysing and getting the solutions within the organisation and using such software and tools which are already in use and can be configured with the new software platforms and simultaneously analysed the any risk available and the associated impact. Keeping all the stakeholders informed through the frequent meetings via, presentations and MIS reports submission.

### Security Management

#### How have you acquired this knowledge in your working environment?

During my six years of experience as a Manager for the IT analysis unit I understood and observed the global trends related to IT security where both hackers and ICT professionals are chasing each other, one trying to exploit the security vulnerability and other trying to secure the entire system. Having said that, I always worked in the manner so that the IT security should be managed optimally, this not only include the data or network security but also the computer/assets security. While working for business analysis unit I worked on automation security systems such as ACS (Access control system) using Axxonsoft & Intellect software platform, Abloy Key locks systems, Biometrics registration and attendance systems etcetera. These projects provided us and each employee of Reliance with sense of being monitored in a safe environment which included not only the asset protection but also the employee protection.

Activities like, IT audits, securing the ports, Encryption of data, using secure gateways, strong room protection were done periodically to understand and ensure the confidentiality, integrity and availability of the organisation's data in line with Reliance's SOPs.

Moreover, Training and education are the continual process and to stay abreast with the global trends, I have kept updating my knowledge by taking short courses and seminars; such as,

- ✓ Certificate course on convergence –Physical & IT security management, conducted by “International Institute of Security and Safety Management”.

## SECTION 2 - RPL PROJECT REPORTS

A project report is a coherent written description of a project or engagement that provides you with the opportunity to show how you perform as an ICT Professional. Each report is to relate to a significant project or work episode undertaken by you during your professional career.

The purpose of these reports is to enable you to demonstrate your command and implementation of the Areas of Knowledge described in Section 1 of this application.

**Please note: You are required to provide two project reports.**

Of the two reports, one must pertain to a project undertaken within the last three years, and the other for a project within the last five years.

**Projects over two years long may be used for both reports under either of the following conditions:**

- The project has clearly-defined work efforts which took place in parallel, each with their own solution development and design activities and their own deliverables.
- The project had clearly-defined phases that were executed in succession, each with its own solution development and design activities and deliverables. Note that a second project phase that constructs and implements the solution developed by the first phase does not meet this requirement.

Depending on the nature of your role in each project, the Project Report should cover an appropriate selection of factors. Appropriate factors will be determined based on the type of ICT project selected. Possible factors include:

- System Analysis and Design and Software Engineering methodologies used;
- Contribution to the processes involved in the design and implementation of enterprise-wide computing systems;
- Programming languages, design paradigms and implementation procedures adopted;
- Database and/or file design and management techniques employed;
- Network topologies, including size, distribution and security facilities installed;
- Project Management and quality assurance techniques followed;
- Internet application design, including database interactivity and security measures implemented;
- ICT managerial activities, demonstrating the nature and extent of responsibilities

### Project Summary:

	Project Name	Start Date	End Date
Project 1	Reliance Greens Residential Complex Lights Management System, Jamnagar Gujarat	mm/yy	mm/yy
Project 2	Artificial Intelligence Building Control Program for Reliance Foundation Hospital, Mumbai	mm/yy	mm/yy

### Instructions

The following pages provide a template for your reports.

When writing your reports please provide your own thoughts – do not just copy project documentation.

Please use the first person in your discussion, so it is clear to the assessor what you did versus what others did – say “I did X” rather than “X was done”.

Diagrams from the project documentation may be helpful, but the text should be in your own words. Please ensure that diagrams are relevant, readable, and help the assessor to understand what you did as a member of the project team.

If sections of the Project Report template (see below) are not relevant to your participation in the project, then leave the section blank.

Focus on quality rather than quantity. **Each Project Report should be no more than four or five pages in length.**

### SPECIAL NOTE:

By submitting this RPL Knowledge and Project Report form as a component of your ACS skills assessment application, you agree with the following statement:

***The applicant confirms that the explanation of their knowledge and project reports submitted in this application truthfully and accurately describe the applicant and the applicant's personal involvement in the projects. The applicant is aware that plagiarism by the applicant will automatically invalidate***



***this application, will jeopardise any future applications from the applicant and will be reported by the Australian Computer Society to the Australian Department of Immigration and Border Protection.***

## Project 1: Reliance Greens, Employees Residential Complex Light Management System

### 1. Project Summary

#### 1.1. Identification

Client's Company Name	Legal Name of Entity	
Business Address	Street Address Suburb State Postcode Country	
Contact Numbers	Tel: Telephone (include country and area code)	
Web Address	Web address	
Email Address	General email address	
Nature of project		
Location of project		
Name of your employer		

#### 1.2. Duration

	From	To
Total project duration	mm/yy	mm/yy
Your involvement	mm/yy	mm/yy

(Please Suggest the timeframe for this project so that I can adjust dates in the above table)

#### 1.3. Resources

	Number
Your team size	
Total project team size	

(Please Size the Team too)

#### 1.4. Personal Involvement

***Please list the phases of the project in which you were personally involved***

Start	Completion	Phase Description
mm/yy	mm/yy	Commencement – Requirement analysis & gathering of needs
mm/yy	mm/yy	Documentation Preparation, Design & Development of Database
mm/yy	mm/yy	Development of Input Data & Output Data
mm/yy	mm/yy	Development of Forms for Management
mm/yy	mm/yy	Software Testing, System Implementation, End User Training

(Please suggest the timeframe for this project so that I can adjust dates in the above table)



### 1.5. Describe your role(s) and responsibilities, including the leadership aspects.

Since the Reliance Oil Refinery Jamnagar Gujarat is considered one of the world's largest oil refinery, the employees were living in Reliance Greens, Employees Residential Complex. This complex is the largest private residential area in India. The total complex had 5000 plus different types of lights including street, flood and numerous other types of luminaires.

As an I.T Business Analyst I developed Light Management System centrally controlled by a web-based application with all those factors which helps in controlling and managing light even when load shedding occurs. It comprised of multitudinous factors like light consumption, failure of voltage, high rising of heat level in the society, adjustment of light and voltage, maintenance reminder in case of any problem in the light in any specific area of the route.

A true web-based application works in this all system and cannot be slow down even in the case of huge data inflow and outflow. This quality software can be accessed from any part of the country just required an internet connectivity and it's impeccable. This application software was proposed to be used by the authorities just to make their work more productive and fast.

#### **Competencies and Expertise used in the project:**

- Project Plan for Management
- Human Resource Management
- Technical frame work considering deep knowledge of I.T Development and Deployment.
- Web Based Software Development Lifecycle.
- GSM packet data transfer management and Global Positioning system.

I was leading this business project and extracting all the relevant information from the involved persons to make this project successful. Also tried to include information through direct observation and with the consultation from my different colleagues for this project.

These are the important commitments achieved from start till bottom to make the project successful:

- ✓ We had multiple meetings with operations and I.T department to understand the imperative & to provide panacea to all kind of hidden and transparent problems.
- ✓ Provided all the solutions to make system foolproof for the sake of supremacy and control.
- ✓ Evaluated all health check of the project and did screening of all the techniques used in the project for the sake of improvement.
- ✓ Trained all the demure staff responsible to look after the application as an end user and specifically operations department which had to use this whole program.
- ✓ Worked on the Scheduling of user manuals so everyone should know that how to execute it.
- ✓ User Acceptance Test was taken and did compliance by the involved department.

## 2. Business Opportunity or Problem

### 2.1. Describe the business opportunity or problem(s) this project addressed.

Well, there were number of demerits in old manual light control system and because of these drawbacks residents could become target of these problems. So, the concerning department had following issues with the old system:

- 1) The old system was showing its dependency over 25 technicians and 5 engineers who were taking care of all the aspects. No one was able to extract data from the books because no data was available in the organized form. So, everyone was unable to take decision regarding problems for future analysis.
- 2) Residential Society had no proper solution regarding light handling and sometimes unable to detect fused lights unless complaint is launched.
- 3) Old system was unable to access the ratio between usage of light and required light in the system.
- 4) Due to old system performance of the staff was very dissatisfactory and was not highly appreciated.
- 5) There was no relevant data for energy analysis which could be used for future demand.
- 6) The relevant department was taking almost 8 to 10 weeks to organize exact figures regarding problematic issues, expenditures and work burden on employees.

### 3. Solution

#### 3.1. Discuss your contribution to the solution, project or engagement.

As discussed earlier, it was unable to manage huge number of lights without the help of individuals and in return a huge cost was incurred. So, the executives thought about a web-based system which may help in organizing all the data and information regarding lighting control.

Key requirements were taken through analysis of the business model because it was the most important step to understand what Reliance Executives wanted in the project and what services were they looking for. So, the whole team worked over it under my supervision and provided exact solution to the user.

- Provided web-based application so, that every concerned person could use it according to the given access.
- Created a BFW (Business Frame Work) through which everyone has the area on which he can access and understand the system.
- Having said that it was a web-based application that needed internet connectivity and totally accessible by the client from anywhere, which also provided the information that which area was unable to consume light even access supply of light energy. Now it is easily manageable by the work staff.
- To check working capacity of the system many tests conducted in the society and in last a specific model used which helped the system to give intimation regarding light voltage.

#### 3.2. Describe any design or problem-solving methods you used on this project.

This application was conducted in a manner that its envisioned requirements should be achieved. We used devices (nodes) which were responsible to switch lights on and off without taking any command or pressing any button. It would also calculate the number of hours in which lights were being used and would allow the department to detect where lights were off even in the required time when all lights were on.

As discussing with the status of the business application, the technician can easily have information about the defective lights of the residential complex. It shows the position number and area of the light in the system where it is not working properly, and technician takes hardly 20 minutes to solve the problem. It entails the responsibility over technician because technician has the access even to check its voltage through this application without using voltage device and application automatically tells him the voltage power by the ingress of software. System provides all the exact information about the number of hours light switched on and ration of light used at day and night. Graph also shows the figures about the consumption of light in the peak time as well. This software also gives indication that street lights of the society are switched on more than the required time and energy is being wasted. So, system takes permission to switch off those lights if there is no special event is being organized in the society on special permission.

I used an updated business method for the evaluation of the system we designed process to fulfil the business requirement. First, we tested all the programs which we developed for the system and then on second step we checked whether it would give proper details which we were expecting, or it would give ordinary details. System functionality was not compromised to get exact information from the system. On the third step we finalized the software that now it could give exact details which could also tell us the opportunity as well through which we could update system with the help of new information.

We accumulated all the data of each light and recorded it on temporary basis just for the sake of sharing with executives. After approval we were given go ahead to install all the required devices to connect it with the Reliance Greens, Employees Residential Complex Control office.

Web-based application control was checked at the final stage and given to the I.T professionals to run and make it operational for them.

### ***3.3. List the major deliverables of the project that you were responsible for or contributed to.***

I did project analysis and picked pockets for improvements. My contributions were as following along with the team

- I used Plc Bus an advanced technology to gain more light energy around 75 percent and we easily saved our funds against the traditional system through just controlling of lights which were switched on.
- We also saved energy by amending light system in rush hours.
- I proposed & we used significant techniques by switching off those lights which were being utilized without any purpose.
- Through new technology system, no faults were occurred again and again and very easy to find out technical faults through a proper managed system.
- In this project light control system was networked around the all operating staff and they could easily control it due to networking.
- If voltage was not according to the required level, then it was not possible for the operator to detect what were the causes through which lights were not being “on”. Now it automatically detects the voltage and tells about the missing voltage.
- Used wireless technology in most cases instead of cables and wires. Easy to access and operate.
- Used Proper Remote Terminal Unit to fix everything in an aligned manner.
- I used Pie charts for getting up to date reports through extraction of data by the system.

## 4. Results

### 4.1. Was your solution implemented? If so, describe the role, if any, you had in the implementation.

The system was successfully implemented.

- This whole project saved our 45 million rupees which would also save our energy as well.
- Power supply device was used to convert low voltage in to required voltage and linked it with the software to control all the system.
- We used specific storage system connected with GSM and used Programmable Logic Controller (P.L.C) for reliability of huge control.
- Apart from this we also put up a system which would inform us from bad weather condition and we would be able to use the technology to control different kind of mishaps.

### 4.2. Assess the overall success or failure of the project.

- We successfully completed and executed the whole project according to the mentioned time frame work and resolved all the issues in the required time.
- According to the project analysts the company saved around 45 million rupees in the first month.
- Restoring or updating cost was around 2 percent if any difficulty was faced.
- Only one centralized system was present.
- Energy was not consumed to that extent where high priced bills were paid.
- As low energy was consumed so it gave a positive signature to the environment which lead to low cost in terms of social responsibility.
- Non-stop energy was being given to the Wi-Fi units to make sure that there should be no gap in the system and all applications were working together in a continuous manner.

### 4.3. Lessons Learned

#### *In retrospect, what you might have done differently on this project?*

I had very tight schedule of work and had no time to create any other things special. After completing our project, I found a very strong feeling that this project could relate to multiple applications working in our Reliance companies. Through there connection we could easily do several things and it could be very profitable software. Our team of software developers are now in a position that for the next project they can work more professionally and wisely.

I learned how to manage a project as a Business Analyst and how to deal with issues among team members.

**Project 2: Artificial Intelligence Building Control Program for Reliance Hospital**
**5. Project Summary**
**5.1. Identification**

Client's Company Name	Legal Name of Entity	
Business Address	Street Address Suburb State Postcode Country	
Contact Numbers	Tel: Telephone (include country and area code)	
Web Address	Web address	
Email Address	General email address	
Nature of project		
Location of project		
Name of your employer		

**5.2. Duration**

	From	To
Total project duration		
Your involvement		

(Suggestion needed here also)

**5.3. Resources**

	Number
Your team size	
Total project team size	

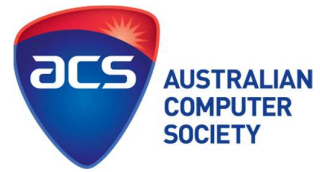
(Suggestion needed here also)

**5.4. Personal Involvement**

***Please list the phases of the project in which you were personally involved***

Start	Completion	Phase Description
mm/yy	mm/yy	Commencement – Requirement analysis & gathering of needs
mm/yy	mm/yy	Documentation Preparation, Design & Development of Database
mm/yy	mm/yy	Development of Input Data & Output Data
mm/yy	mm/yy	Development of Forms for Management
mm/yy	mm/yy	Software Testing, System Implementation, End User Training

( Please Suggest the timeframe for this project so that I can adjust dates in the above table, For reference I was posted there from Jan 2013 to July 2017 and dates can be adjusted )



**5.5. Describe your role(s) and responsibilities in the project.**

After my tenure at RIL Jamnagar, I got transferred to Mumbai INDIA in association with Reliance Hospital project. This project was related to the commissioning of the SIR HN Reliance Foundation Hospital & RC under the Reliance foundation CSR activities. When I was transferred to this place, the hospital was in between the construction and operational phase and my responsibility was to analyse the whole ICT system and bring the whole system in fully operational phase in next six months.

My core association was with the hospital operations team and I had to develop the processes and systems keeping the Medical team also in loop. However, the systems have to be installed in a manner so that it should be functional in the new 22 floor high rise building and should not affect the sanctity of the heritage building which was constructed in 1932 and declared as World Heritage Site by UNESCO.

Hence, Artificial intelligence Building Control Program was recommended and finalised by the management which includes correspondence control, building control and Business control to give a single database easily usable for team to take exact decisions in real time world.

A.I.B.C.P comprises of both software working and hardware support, software working was designed in an ascending order with the access of interface given to the assigned person using these protocols, as Process Field Bus which was used for communication and was known for automation technology, Device-net, S.O.A.P, Xml, Lonworks, Bacnet, lonworks and modbus technology implemented to communicate among intelligent devices, sensors and instruments.

The A.I.B.C.P installed in a commercial Building consists of following main systems.

- ❖ Automatic Building System
- ❖ Observe & Check System
- ❖ Parking Control System
- ❖ Alarm Automation System
- ❖ Office Automatic Check System
- ❖ Informative Display Electronic System
- ❖ Intelligent Imaging System

The system was designed and implemented in a manner through which team experienced different issues regarding building control program. Standard Operating Principles were implemented to make it perfect for the end user.

The program was created by the software developers who used their expertise in the project and implemented in place of traditional technology. Project was designed in a way that building specialists followed the S.O.P which encountered different building administration issues. Risk check was handled; strategy was made for the proportion of resources. Extra amount was cut to make this project cost effective and profitable for the end user.

Trial testing uniformity of the project was checked at the final stage.

I was performing following tasks in the project from top till bottom:

- Produced feasibility report of the project by considering all possible problems.
- In order all the business documents of the A.I.B.C.P.
- As per the requirement of the business, I observed and checked the development of the system step wise.
- Any important requirements added by the stakeholders in A.I.B.C.P were added in the system to make it multidimensional.
- Worked in contact between the information department through which I was extracting and collecting information for the sake of software program and being intuitive with the software team to make it happen.

## 6. Business Opportunity or Problem

### 6.1. Describe the business opportunity or problem(s) this project addressed.

- ✓ Data was extracted and combined in one system so there were 100 percent chances to take 100 percent decisions based on true facts and figures.
- ✓ Combining and maintaining the H.V.A.C, security, high resolution video, energy and applications of life security produces a sole workstation which provides complete control and better performance.
- ✓ Friendly user system made operating cost low and minimized the mistakes. It gives power to staff members to take real time action in any case.
- ✓ Ongoing perspective into the system activities and profound pattern investigations give information driven understanding to advance your vitality administration techniques and limit your running cost.
- ✓ The great mix of open frameworks conventions and an adaptable stage implies the A.I.B.C.P can help bolster development and extension of the framework later.
- ✓ This system software minimized the risk through a single interface, it increased the security of the hospital building, working staff, employees and other members and especially business. It quickly responds and makes any mishap controllable.
- ✓ It gives all kind of data sharing as per instruction and has better reliable figures than any other software. It provides complete details without any data missing which makes decision making easy in terms of business.

A.I.B.C.P was affiliated with the control system and data analysis with defined factors as above. Data was combined as per different formulas to check the overall cost and took decision to minimize it. It gathered all data including energy figures to make its cost low because of largely consuming material. By energy values data was largely interlinked with the system for data analysis and reported to also include it in software overall development to make it more viable.

## 7. Solution

### 7.1. Discuss your contribution to the solution, project or engagement.

My contributions were as following

- I checked all the needs of A.I.B.C.P business to make sure that it could be beneficial for the system. Took all the first-hand requirements for the designing and planning of the project. To describe the essence and viability of the project.
- Throughout the project multi-dimensional data factor was not interlinked in the system even at the last stage which was identified and highlighted by the stakeholder's team and then interlinked by me and it was a very difficult task at the final stage to make it complete because of coding and decoding.
- System Control team finally found a sensitive gap in the given requirement by the business people and then extracted information from the business team to make it clear.
- Eight months' time frame was given by the higher management for the designing, planning and execution of the software. The requirement was taken in a very professional manner that is why every factor was given higher importance to make this project successful. Project took almost 6 months for its finalization and implementation just because of professional attitude.

### 7.2. Describe any design or problem-solving methods you used on this project.



My contributions were as following

- D.M.A.I.C approach was implemented.
- Problem was identified by the help of V.O.B / V.O.F throughout the description step.
- Except standard SOP's many additional variables were used to make the case successful in front of the business team and showed its additional features to every stake holder for its finalization.
- Information was formed from every single correlated sub-division of which I did analysis and by checking all the procedure it was identified and solved all the objections which were being raised by the building residents related to energy.
- Proposed steps to improve stage and given the solution finally according to the business user.

### ***7.3. List the major deliverables of the project that you were responsible for or contributed to.***

My contribution is highlighted from top to bottom due to my meetings on all stages with the stake holder for the extraction of knowledge and organize it in a manner to make it applicable for the planning team.

- As the whole data was converted in a computerized system, it was very easy to extract any kind of information through the stored data.
- Information with complete details was provided based on computerized system and decisions were easy to take.
- Everything was in order identified and maintained.
- Most productive factor of the project was the usage of maintenance staff
- Timely highlighting of problems in this project maintained the satisfaction level of the client. It leaded business environment towards prosperity.
- Performance of all combined features was analyzed at every stage of the project to make it successful.
- Data security was one of the major demands of the management and project team made it successful for its clients.

## **8. Results**

### ***8.1. Was your solution implemented? If so, describe the role, if any, you had in the implementation.***

- I leaded all professionals towards the manual documentation.
- I organized a full time sitting to train all engineers who had to look after and run this A.I.B.C.P, they hardly invested 21 days and ran the whole program.

### ***8.2. Assess the overall success or failure of the project.***

Well, it was a successful project because through a single interface everyone can control the security of the hospital building and temperature of the building. A person who is given the access can easily read the temperature of the ground if its temperature is not according to the required level. Any employee of the team can check any problem in the hospital building regarding safety and security and detect at which location it happened and why it has happened.

At the end of the implementation of the project and the whole installation authorities require some technicians to maintain everything in the project. For instance, building had 150 fire stopper devices and technician had to check every device to check its level but now system will recognize level of every device and detect if there would any problem in the device and its remedy would be mentioned.

The building control system of Reliance Hospital would recommend the building authorities when would they have to make lights on or when they must make lights off just to save money or make light voltage low to make lights dim. This saved a lot of amount afterwards.

Around 2 million rupees have been saved from this project just based on light system and other systems.

### 8.3. Lessons Learned

*In retrospect, what you might have done differently on this project?*

Team had three weeks for getting training and learning things & we also trained technicians how to run the project and how to extract information from the software as well. We connected things with the single interface and gave access to the assigned person to check all details as per the job designation.