



A study on Process Mapping and Purchase Planning of the Medical Equipment

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- GMERS medical college attached General Hospital, Gandhinagar is 850 bedded hospital among them 650 is teaching beds while 200 beds are non-teaching.
- **Vision:** “To be the network of The Best public healthcare institutions in the state of Gujarat, providing quality medical care services with the state of art technology with easy accessibility, affordability and equity to the people of Gujarat and beyond.”
- **Mission:** “To serve the community needs, particularly the disadvantaged and unprivileged people the GMERS Medical College attached Hospital shall actively partner with all Stakeholders, to impart education, offer scientific and bring about innovations in healthcare delivery to all those who need it the most.”



Introduction

- Hospital is a combination of various things like medical equipment, tools, medical instruments and many more.
- In the field of hospitals, the medical equipment play a vital role in diagnosis, monitoring and treatment of different kinds of medical condition.
- Hospital equipment nowadays are technically advanced but very expensive and hence problem arises when it comes to allocate the available funds and setting priorities.
- The amount of cost involved in the unit is enormous as the high technology equipment requires too many inputs.



Introduction

- This kind of study gives the idea of understanding feasibility of such huge investment. It will analyze the factors influencing the utilization status of the equipment and to identify the cost implications that entail and effect the utilization level upon per unit cost borne by the hospital.



Three ways to procure a medical equipment

1. Emergency Purchase
 2. Local Purchase
 3. Purchase through GMSCL
- Emergency and local purchase has been done within hospital while remaining one done through Gujarat Medical Corporation Limited (GMSCL).
 - Emergency and local purchase take place when GMSCL didn't approve our earlier requisition of equipment.



Emergency purchase

– [Emergency purchase.png](#)



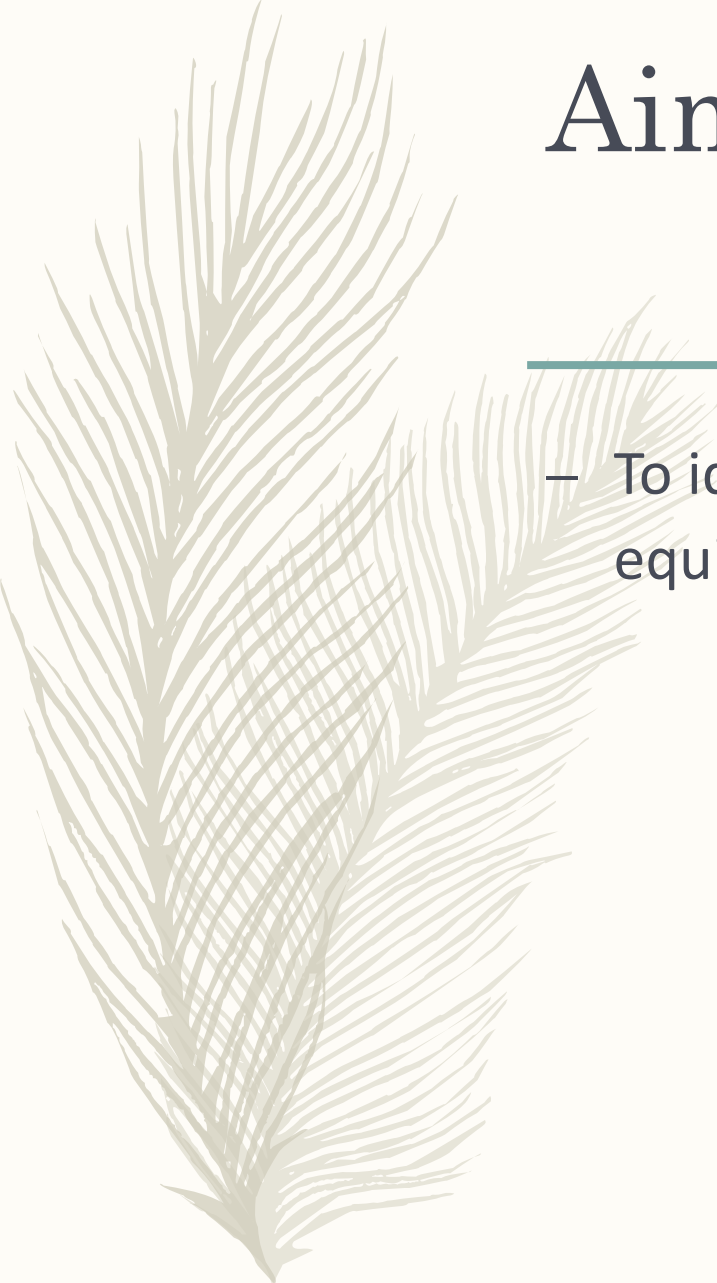
Local purchase

- [Local purchase \(1\).png](#)
- [Local purchase 2.png](#)



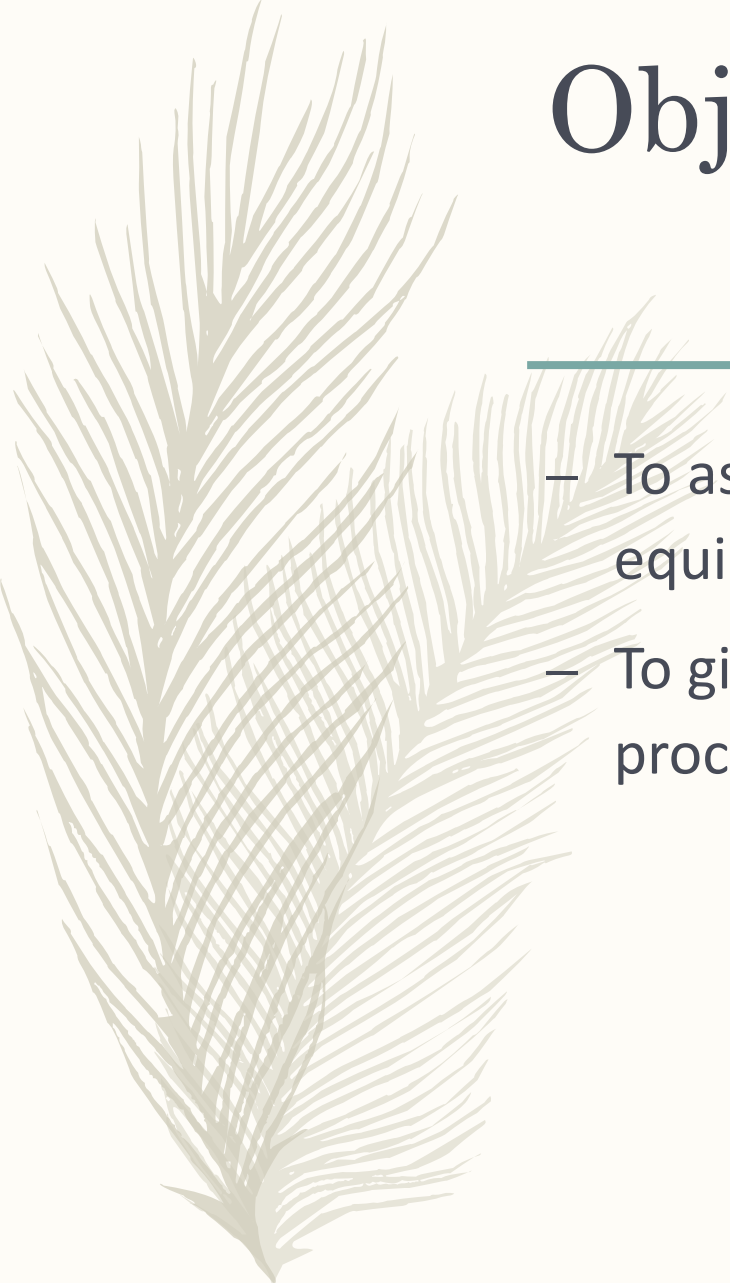
GMSCl purchase

- [GMSCl purchase \(1\).png](#)
- [GMSCl purchase \(2\).png](#)



Aim

- To identify the gap between purchase process of the medical equipment and establish the smooth process flow.



Objective

- To assess the process mapping of purchasing of medical equipment and the barriers associated with it.
- To give recommendation accordingly for the equipment purchase process.



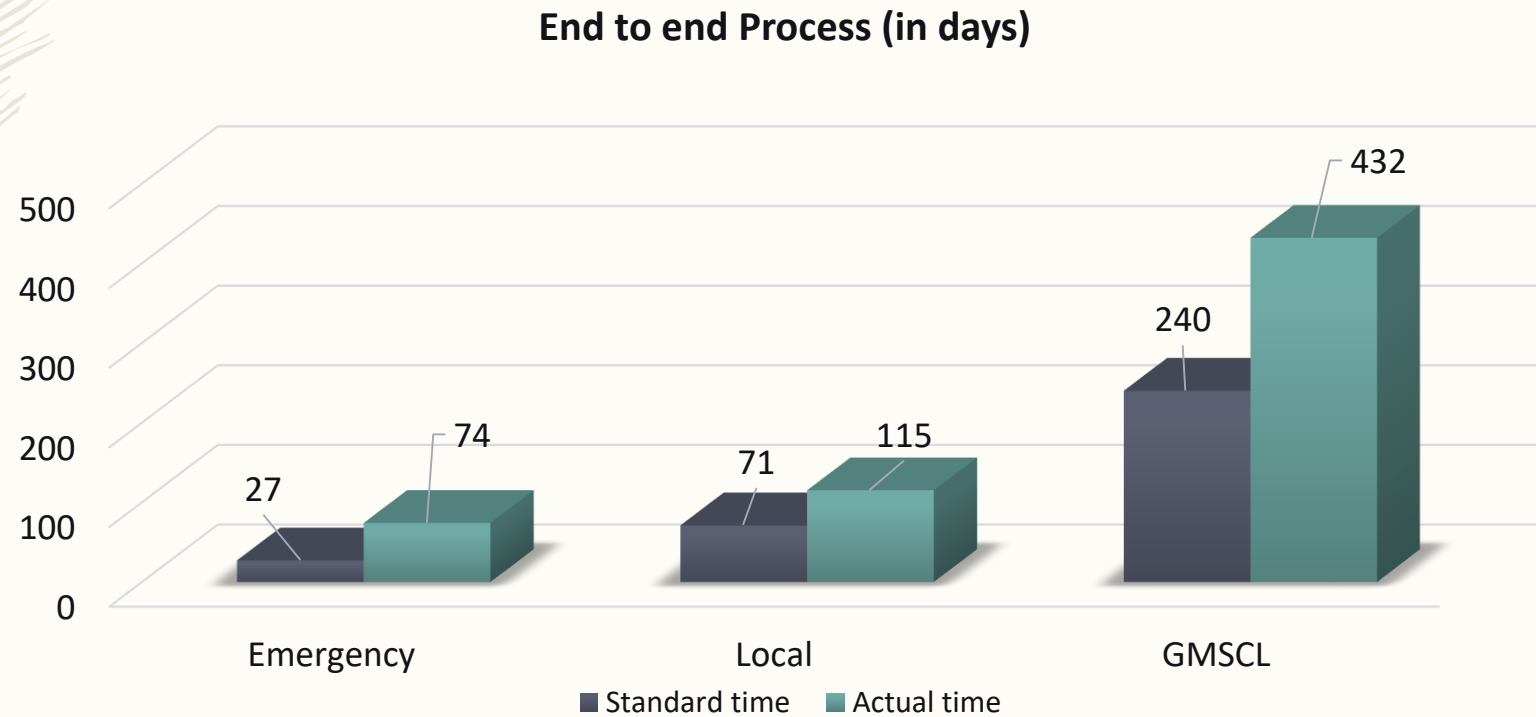
Research Methodology

- Study design : Cross sectional & Retrospective study
- Data Source : Secondary
- Duration : 5th February 2018 to 5th May 2018
- Sampling technique : Purposive sampling
- Sample Size : 14 equipment (63 in Total) (Last 3-year purchase of equipment in OBG department)
- Data collection tool : Interview with stakeholders and secondary data from records, files of particular equipment.

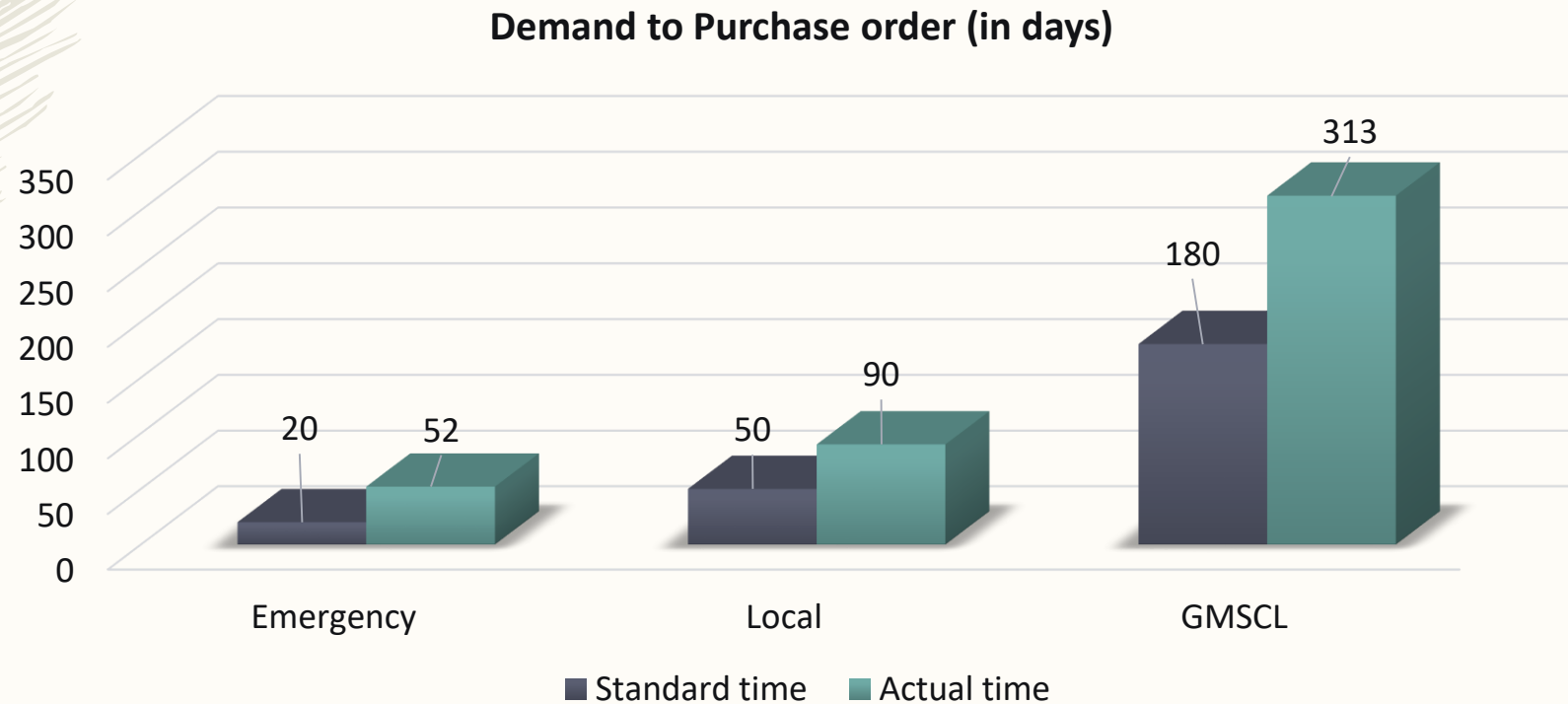


Data Analysis

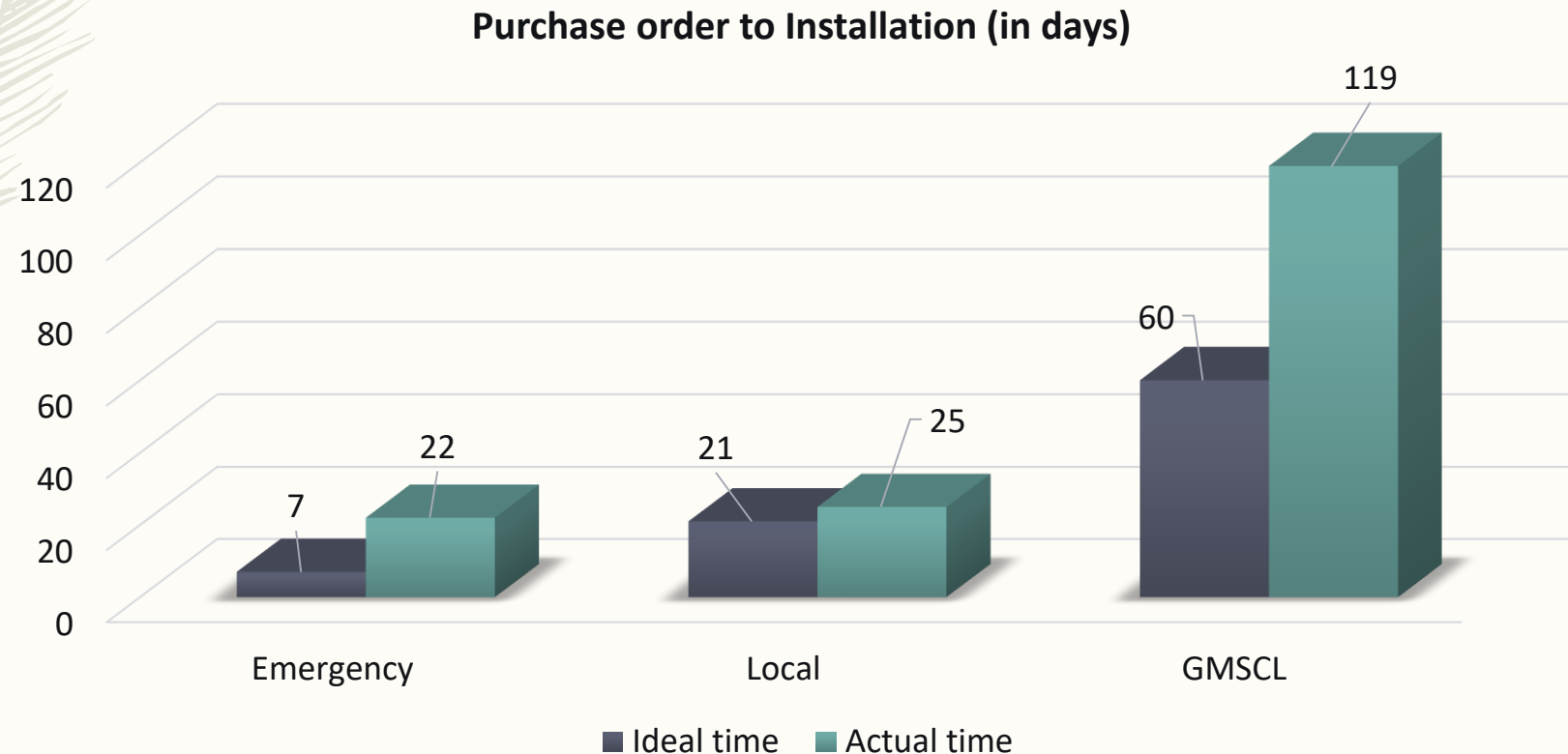
1. End to end process

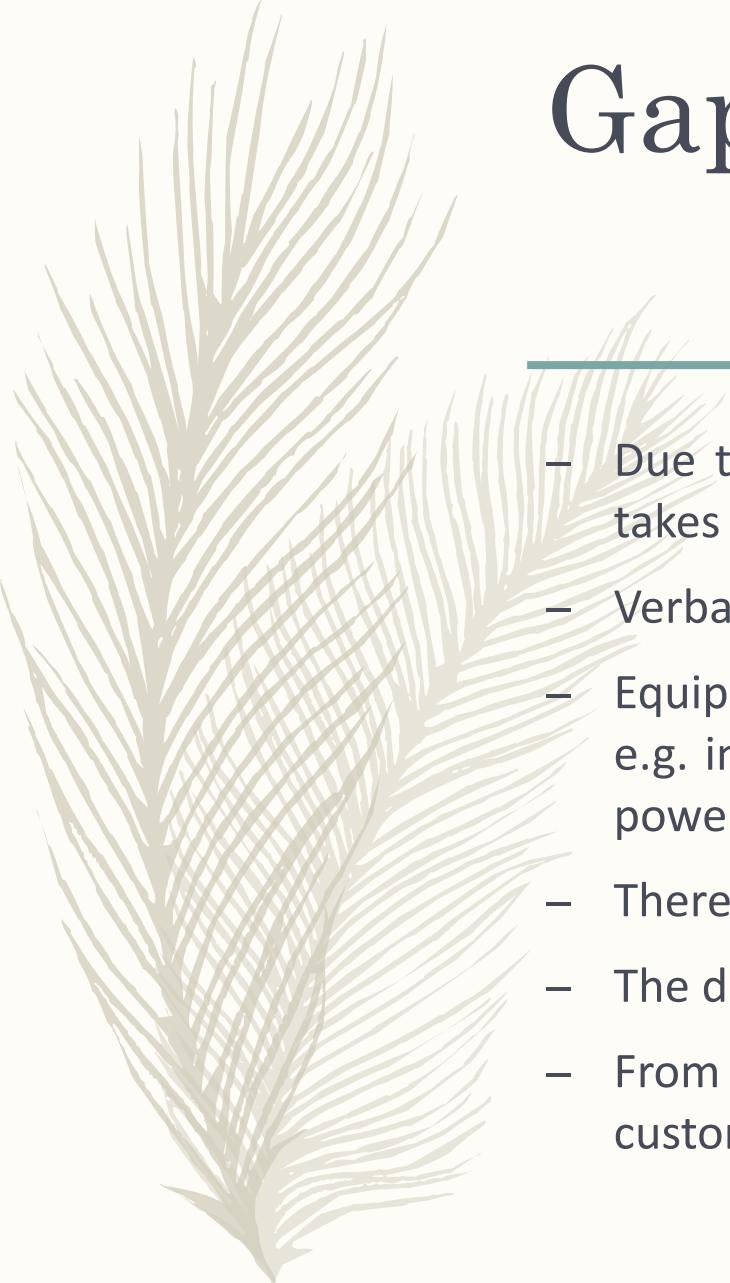


2. Demand to Purchase order



3. Purchase order to Installation





Gap analysis

- Due to unavailability of persons, meetings are delayed, and thus decision process takes more time.
- Verbal meeting reminders are not considered for official meeting.
- Equipment installation delays occur because of unpreparedness of the sites. (For e.g. insufficient power supply, water connectivity, cooling system, drainage system, power backup)
- There has been a Communication gap between committee members and end users.
- The delay in delivery also happens due to technical issues of equipments.
- From GMSCL purchase some of the foreign made equipments face the problem with custom clearance.



Recommendations

- Committee should include more people or else from the same background more than one people must be there.
- Proper Meeting invitation through mails should be sent to all the participants priorly.
- At the time of placing the purchase order, site verification should be done priorly at the hospital level only.
- Committee should involve the end users in the technical scrutiny process.
- MOM (Minutes of meeting) must be circulated to all the stakeholders about every meeting.
- Training should be given by the Company



Thank you