

LINEN RFID

**WOODLANDS MULTISPECIALITY HOSPITAL LTD
KOLKATA**

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CORE CAPABILITIES

Proposed Solution

The system will automatically track & manage daily laundry along with the movement for owned and rental uniforms, clothes and green linens

The RFID tags attached to the clothes are read by the RFID system; once the unique tag ID for each cloth is obtained, the application software updates the database with related information and generates reports at various stages

The system automates & eliminates manual tasks, such as separating , counting uniforms and linens coming into the laundry or items being shipped

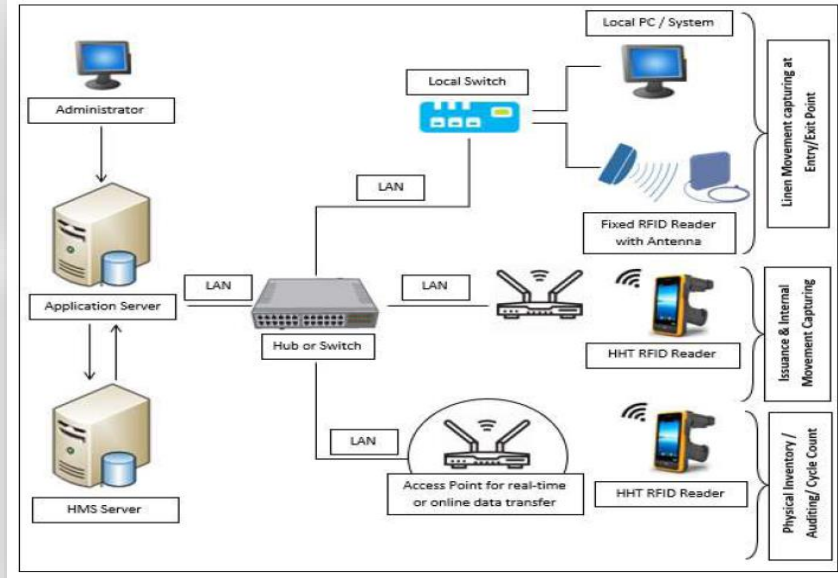
CHALLENGES BEFORE IMPLEMENTATION

- * INVENTORY ACCURACY
- * LAUNDRY CYCLE TRACKING
- * LOCATING ASSET
- * EMPLOYEE PRODUCTIVITY
- * DEPENDENCY ON WORKER OR EMPLOYEE
- * WASH CYCLE TRACKING
- * DOCUMENT TRACKING

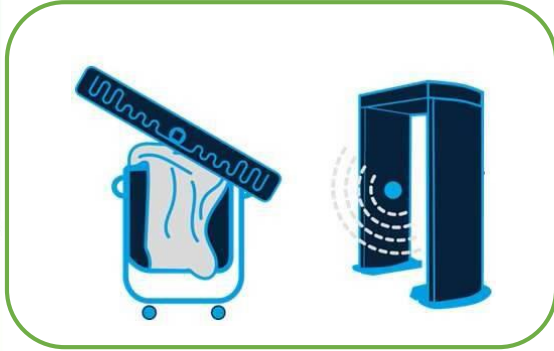
STAGES OF PROPOSED SOLUTION



SYSTEM ARCHITECTURE



SYSTEM COMPONENTS



FIXED RFID READER & ANTENNA



PORTABLE RFID READER & TERMINAL

SOLUTION MODULES

- RFID Laundry Tag Writing/Encoding/Mapping through Desktop USB Reader/Writer
- Wash IN (Fresh Article Inward) through RFID scan/read – movement capturing through Fixed RFID Reader & Handheld Terminal (HHT)
- Departmental Issuance (internal movement i.e. from linen store to a specific department) through HHT
- Soiled OUT (Dirty Article Outward) through RFID scan/read – movement capturing through Fixed RFID Reader & HHT
- Gate Pass/Challan (for the returnable articles)
- Physical Inventory/Auditing/Cycle Count through HHT

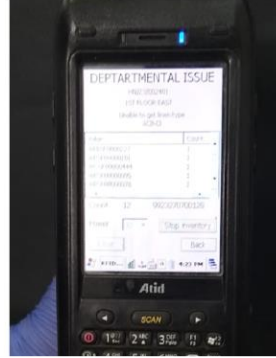
LIVE WORK FLOW



INDENT SELECTION



DEPARTMENTAL ISSUE



LINEN ISSUE DATA



FIXED READER GATE

- ❑ All linen indents from various departments are checked and accordingly the fresh linen are distributed by digital scanning of linen – No manual intervention is required
- ❑ All soiled and fresh linen are passed through the fixed reader to have auto count of individual linen items

ITEM DESCRIPTION

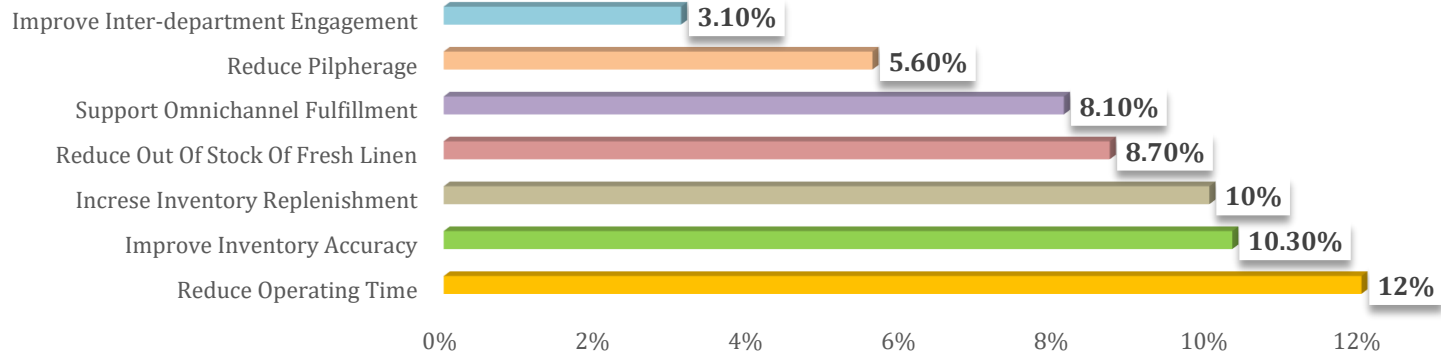
S. NO	ITEM DESCRIPTION	Qty.
1	Customized Application for RFID based Laundry Management System	1
2	Thing Magic - RFID Desktop USB Reader/Writer	1
3	ATID 880 - RFID Handheld Terminal (HHT)/Scanner	2
4	Thing Magic Mercury 6 - Fixed RFID Reader	1
5	Liard - RFID Antenna with cable	4
6	Century - RFID Laundry Tag	28000

- Total **28000** pieces of linen has tagged with RFID tags to ensure smooth accountability and tracking of linen by the linen department

REPORTS GENERATED

- WASH IN** - fresh linen inward count from outsource laundry (*daily report*)
- DEPARTMENTAL ISSUE** - department wise linen distribution record (*daily report*)
- SOILED OUT** - dirty linen outward count from hospital to outsource laundry (*daily report*)
- WASH COUNT** - number of times linen & RFID tag gets washed (*daily report*)
- NON RETURN ITEM** - for those items which has not got returned within a stipulated time from the launderer (*Real time*)
- PHYSICAL INVENTORY** – Monthly linen real time count

ROI OF RFID IMPLEMENTATION IN LINEN DEPT



BENIFITS

- TIME SAVING
- REAL TIME RECORD / DATA
- OPERATIONAL EFFICIENCY
- TIME SAVING
- MANPOWER SAVING
- ACURATE LINEN INVENTORY
- LINEN LIFE SPAN RECORD

