





Company Profile and History:

- Biological E. Limited (BE) India started its journey in vaccine manufacturing in the year 1962 and became the first Indian private company to enter into the vaccines business.
- BE has modern manufacturing facilities that are well equipped for sterile manufacturing of quality products. Its manufacturing facilities have been inspected by multiple regulatory agencies.
- BE has 7 "WHO pre-qualified" vaccines and is working to expand its pipeline of generic vaccines. Additionally, it is leveraging its past experience in the vaccines space to transition to developing novel vaccines. BE is the largest producer of Tetanus Vaccine in the world and leading supplier of Pentavalent Vaccine. It is also one of the leading suppliers of Polyvalent Snake Antivenom in India.
- BE is one of the leading vaccine companies in India and partners with global healthcare agencies, including the WHO, UNICEF and Pan American Health Organization in their efforts to make life saving vaccines accessible globally. BE supplies its vaccines to more than 100 countries.



Warehouse _ Shameerpet site:



BE

Key Challenges _ before SAP WMS implementation:

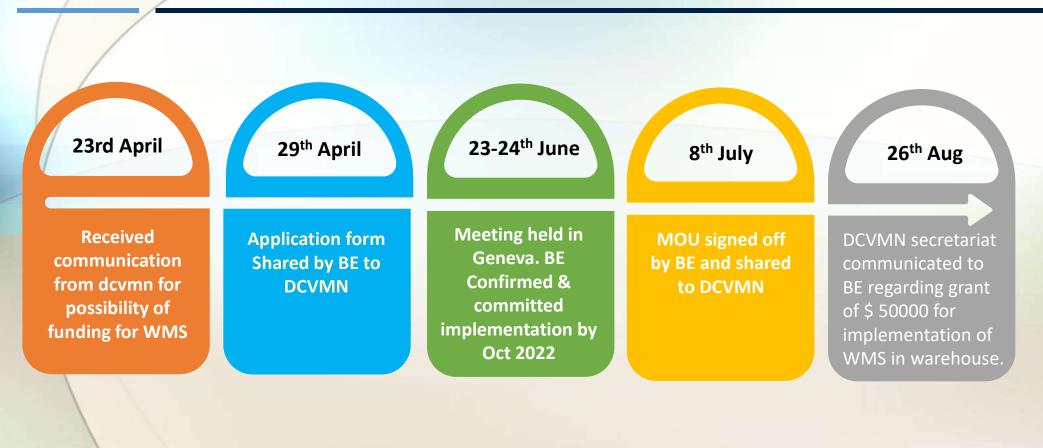
Dedicated Storage Areas

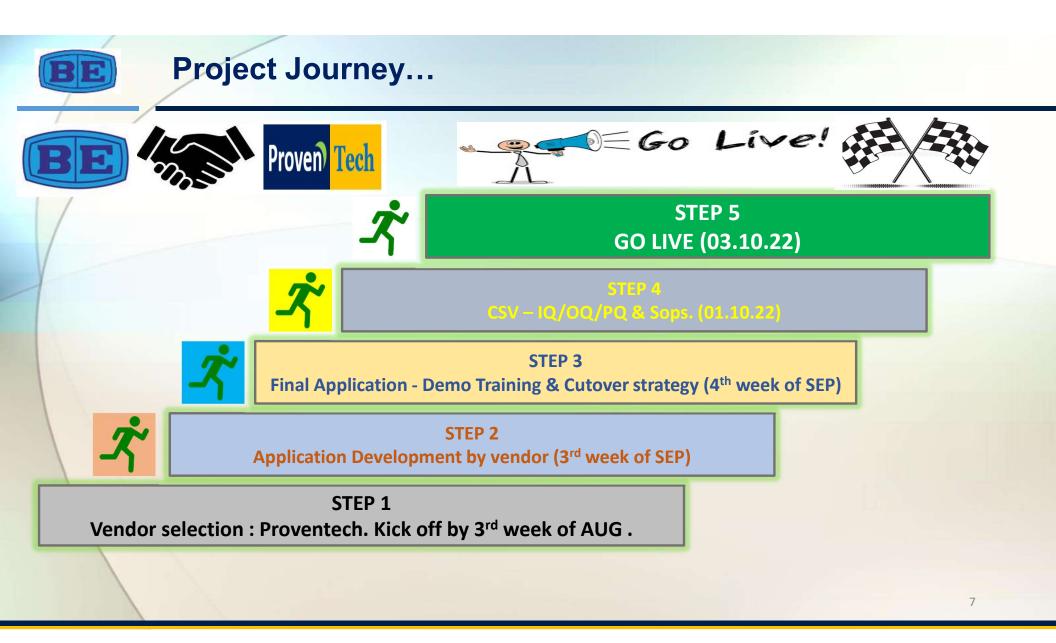


- Multiple material handling due to "Multistage labelling Quarantine / Undertest /Approved / Rejected" and due to separate storage areas.
- Space challenge due to dedicated storage area for separate category materials like Quarantine, Approved & Rejected.
- Manual tracking / tracing of materials. [Locations are updated manually on status board].
- Human errors due to manual activity.



WMS Proposal by BioE & funding support by dcvmn:







"GO LIVE" _ 3rd Oct. :

Challenges _ during SAP WMS Implementation :

- Data :
- + Correctness and completeness of master data (Material master, Bin Master) & Inventory data for uploading during cutover activity.
- + Multiple time data verification, due to ongoing warehouse operations (to support business).
- + Data preparation : Bin wise, pack wise data for available inventory.

User Acceptance Test (UAT) :

+ To be performed for all business scenarios including printing of labels, verify the label content etc.

Delivery challenges :

+ Network switches / Wi-Fi Access points.

Hand held Device (HHD) :

+ To ensure appropriate controls on HHD User management.

Post Go Live:

- + Stock reconciliation before and post Go Live (Category wise, AR Number wise, Bin wise).
- + Labelling of available inventory packs with New QR code labels.

SAP WMS advantages :

Handheld device.

Elimination of Human errors.

Reduction in material handling.

COMMON STORAGE AREA





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Better regulatory compliance due to electronic controls.

Optimum space utilization due to common storage area.

Use of Single stage QR code label in place of multi-stage labelling.

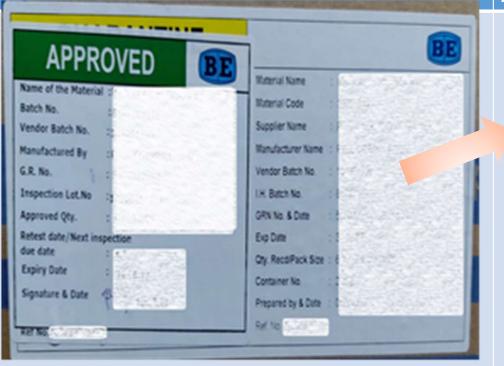
Easy tracking/tracing of materials since location can be traced using

SU	Inquiry

WHS	WH2			
SU	1000000576			
Material	10000782			
ADCF ANT	IFOAM IRRAD			
Batch	8171220115			
Quantit	49.000 ML			
Status	A			
Appr	oved			
Strg Typ	ROL			
BIN	ROI			
Ret Date	10.10.2022			
Rec.Date				
	19.08.2021			

Post Go Live.. (Single stage QR Code Label):

Before WMS Implementation: (Used Quarantine, Under test, Sampled and Approved labels for storage packs)



MATERIAL	IDENTIFIC	ATION BE
Material Name	:	A DESCRIPTION
Material Code	: 00000000	
Supplier Name	: Alacient	C. S. W. State States
Manufacturer Name	: Calini	
Vendor Batch No.	:	1212-121
I.H. Batch No.	: : : : : : : : : : : : : : : : : : : :	
GRN No. & Date	: Unestan	2.35.41
Exp. Date	:::02	
Total Rec. Qty.	: her dires	100000523
No of Containers	: 6.9.2	
Container Qty.	:	and the second se
Prepared By & Date	:	122

"QR code Labels" for materials & storage bins:





Post Go Live.. (Electronic Location management):

Before WMS implementation :Manual board updating against the bin as per the status area

After WMS Implementation :QR code scan status against to the Bin level scan

SU 100000 SU		HEAD HOUSE	61910112514 219102255 81911256577	WHS	WH2
Image: Control of the second of the secon			x 74,21049 21 + 421099	SU	10000
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Post Go Live ... (Material status identification on Hand held device):

QR Scanner SU out put	QR Status Quarantine Material Status		QR Status Approved Material Status		QR Status Rejected Material Status	
15:06 Image: Sologicale.co.in:44301 Image: Sologicale.co.in:44301 Image: Sologicale.co.in:44301 <th>Material S SU Inc WHS SU Material ADCF ANT Batch Quantit Status</th> <th>tatus</th> <th>Material St SU Ind WHS SU Material ADCF ANT Batch Quantit Status</th> <th>atus quiry WH2 1000000576 10000782 TIFOAM IRRAD 8171220115 49.000 ML A roved R01 R01 R01</th> <th>Status SU Inc WHS SU Material</th> <th>WH2 100000528 10000782 IFOAM IRRAD 8171220109 50.000 ML</th>	Material S SU Inc WHS SU Material ADCF ANT Batch Quantit Status	tatus	Material St SU Ind WHS SU Material ADCF ANT Batch Quantit Status	atus quiry WH2 1000000576 10000782 TIFOAM IRRAD 8171220115 49.000 ML A roved R01 R01 R01	Status SU Inc WHS SU Material	WH2 100000528 10000782 IFOAM IRRAD 8171220109 50.000 ML
F3 Back BEP (500) . bioprdci	Ret.Date Mfg.Date Exp Date F3 B	21.09.2021 20.10.2026	Ret.Date Mfg.Date Exp Date F3 E	10.10.2022 19.08.2021 18.08.2023 Back	Ret.Date Mfg.Date Exp Date F3 B	22.09.2021 21.09.2023 ack

Common storage area in place of Quarantine & Approved area



