

- HIGH REACH TRUCK For Lifting Height 7.5 meters (closed mast height 3.4 meters)
- PALLET STACKER For Lifting Height 2.2 meters (closed mast height required 1.0 meters)
- PALLET STACKER For Lifting Height 4.5 meters (closed mast height 3.0 meters)
- HAND PALLET TRUCK
- BATTERY OPERATED PALLET TRUCK

02	04.05.2015	PSH	SOBB	SLM	Development/Project/Contract as per discussion with user in HRB
01	04.08.2014	JMT	PMK	SLM	Development/Project/Contract as per the latest report
Rev.	Date	Drawn	Checked	Approved	Kind of Revision
Project: INTEGRATED VACCINES COMPLEX Client: HILL BIO-TECH LIMITED					
Description: WAREHOUSE BLOCK-W1 EQUIPMENT LAYOUT - GROUND FLOOR					
Scale: 1:75 Unit: mm Size: A0 Sheet No.:					
Client: one dharmapalan NNE Pharmaceuticals India Limited 4/3, BEL, Air Force, Bellary Road Bangalore - 560022, India Project No.: 120310 Location: Bangalore, India Date: 12/03/10 Project No.: 120310					

Equipment Specification Data Sheet

Equipment Name: Cold Room Stacker

Document No.: DS-CRS 01

Revision: 01

Project No.: 120310

Project Name: Integrated Vaccines Complex,
Chengalpattu

Block Code	Block Name	Equipment ID	Capacity	Quantity
W1	Warehouse	W1-CRS-01	-	1 No.

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
Prepared & Checked by			
Mr. Eswara Murthy	Senior Project Manager		15/10
Approved by			
Mr. Sunil K. Mule	Senior Project Manager		16/10/15

HLL Biotach Limited

Name	Designation	Signature	Date
Reviewed by			
User department Warehouse R. SATHISHAN	PY MANAGER		19.10.15
Project / Engineering department RAN. T. R.	DY. MANAGER		20.10.15
Approved by			
Head of the Department: Warehouse S. R. LAKSHMAN	DVP		26.10.15
Head of the Department (QA) S. SURESH BABU	DM		26/10/15
Authorized by			
RAMAN. K. RAMACHANDRAN	CEO		28/10/15

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		
	Equipment Name	Cold room stacker	
	Project #	120310	
	Document #	DS-CRS 01	
1	Process requirements		
1.1	Cold room stacer is a device used to lift and load materials at controlled temperature.		
2	Equipment ID		
2.1	DS-CRS 01		
3	Technical Specification		
3.1	Model	Standard	
3.2	Type	Battery operated	
3.3	Maximum Lift height	2000 mm	
3.4	Pallet specification	1200mm x 1000mm	
3.5	Load Capacity per pallet	1000 kg (payload)	
3.6	Capacity at maximum fork height	1000 Kg	
3.7	Mast type	xx	
3.8	Collapsed height	xx	
3.9	Free lift	xx	
3.10	Aisle (pallet to pallet)	2.8 meters	
3.11	Room temp	2 - 8 deg c	
3.12	Overall Size	xx	
3.13	Quantity	1	
4	Material of Construction		
4.1	Main Body	MS Powder coated	
4.2	Wheels (All)	PU	
5	Specific Equipment requirement		
5.1	Steering handle: "Full function control handle", with all controls (forward / reverse and lift / lower)		
5.2	Spare Battery with trolley to be provided		
5.3	Vendor to confirm the lifting capacity at the maximum height		
5.4	MOC of the rack to suit to cold room conditions		
6	Other requirement		
6.1	Operator seat		
6.2	Easy and quick removal of battery		
6.3	The stacker shall be battery operated		
6.4	Battery discharge indicator with lift lock out.		
6.5	Horn		
6.6	Battery and battery Charger.		

Equipment Specification Data Sheet		
HLL Biotech Limited, Chennai		
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU	
	Equipment Name	Cold room stacker
	Project #	120310
	Document #	DS-CRS 01
 HBL HLL BIOTECH LIMITED <small>(a subsidiary of HLL Micro Systems Ltd.) (A Division of HLL's Enterprise)</small>		
6.7	Reverse travel alarm	
6.8	Battery capacity: xx	
6.9	Fork adjustment facility	
6.10	Drive pedal	
6.11	Hour meter	
7	Regulatory aspects	
7.1	Not applicable	
8	Safety requirements	
8.1	Over head guard	
8.2	Break arrangement to stop during the movement and while parking	
8.3	Emergency stop switch	
8.4	Flashing light	
9	Documents	
9.1	Operational and maintainance manual	
10	Timelines	
10.1	Not Applicable	
11	Preferred list of Makes	
11.1	Not Applicable	
NOTE: Accurate size and technical specification need to be mentioned by the vendor		
XX - Vendor to specify		

Equipment Specification Data Sheet

Equipment Name: Dock Leveller

Document No.: DS-DLV 01

Revision: 01

Project No.: 120310

Project Name: Integrated Vaccines Complex,
Chengalpattu

Block Code	Block Name	Equipment ID	Capacity	Quantity
W1	Warehouse	W1-DLV-01 W1-DLV-02	-	2 Nos.

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
Prepared & Checked by			
Mr. Eswara Murthy	Senior Project Manager	<i>[Signature]</i>	15/10
Approved by			
Mr. Sunil K. Mule	Senior Project Manager	<i>[Signature]</i>	16/10/15

HLL Biotech Limited

Name	Designation	Signature	Date
Reviewed by			
User department: Warehouse <i>K. RAJAMURUGAN</i>	DMANAGER	<i>[Signature]</i>	19-10-15
Project / Engineering department <i>RAVI.T.R</i>	DMANAGER	<i>[Signature]</i>	20-10-15
Approved by			
Head of the Department: Warehouse <i>K.R. LUMARAN</i>	DVP	<i>[Signature]</i>	28-10-15
Head of the Department (QA) <i>[Signature]</i>	DM	<i>[Signature]</i>	26/10/15
Authorized by			
<i>RAMAN K. RAMACHANDRAN</i>	CEO	<i>[Signature]</i>	28/10/15

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		 HLL BIOTECH LIMITED <small>Established in 1981, 35 Years of Excellence</small> <small>A Government of India Enterprise</small>
	Equipment Name	Dock Leveller	
	Project #	120310	
	Document #	DS-DLV 01	
1	Process requirements		
1.1	Dock Leveller is used for loading and unloading operations from the truck & containers		
2	Equipment ID		
2.1	DS-DLV 01, 02		
3	Technical Specification		
3.1	Location	Warehouse	
3.2	Model	Standard	
3.3	Type	Hydraulic	
3.4	Capacity	9000 Kgs	
3.5	Working Range	xx	
3.6	Platform size		
	Length	2000mm	
	Width	2500mm	
	Lip extension	400mm	
	Dock height	1200 mm	
3.7	Pit dimension		
	Length	xx	
	Width	xx	
	Pit Height	xx	
	Tilt Compensation	xx	
3.8	Quantity	2	
4	Material of Construction		
4.1	Main Body	xx	
5	Specific Equipment requirement		
5.1	Anti slip steel to be provided for platform and lip		
6	Other requirement		
6.1	All relevant test certificates to be provided		
7	Regulatory aspects		
7.1	Not applicable		
8	Safety requirements		
8.1	Safety stop in case of accidental departure of the vehicle		
9	Documents		
9.1	Operational and maintenance manual		

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		 <small>HLL BIOTECH LIMITED (Subsidiary of HLL Chemicals Limited) (A Government of India Enterprise)</small>
	Equipment Name	Dock Leveller	
	Project #	120310	
	Document #	DS-DLV 01	
10	Timelines		
10.1	Not Applicable		
11	Preferred list of Makes		
11.1	Not Applicable		
NOTE: Accurate size and technical specification need to be mentioned by the vendor			
XX - Vendor to specify			

Equipment Specification Data Sheet

Equipment Name: Fork Lift

Document No.: DS-FKL 01

Revision: 01

Project No.: 120310

Project Name: Integrated Vaccines Complex, Chengalpattu

Block Code	Block Name	Equipment ID	Capacity	Quantity
W1	Warehouse	W1-FKL-01 W1-FKL-02 W1-FKL-03	-	3 Nos.

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
Prepared & Checked by			
Mr. Eswara Murthy	Senior Project Manager		15/10
Approved by			
Mr. Sunil K. Mule	Senior Project Manager		16/10/15

HLL Biotech Limited

Name	Designation	Signature	Date
Reviewed by			
User department Warehouse K. RAJAKRISHNAN	DY-MANAGER		19-10-15
Project / Engineering department RAV. T-R	DY-MANAGER	T-R.	20-10-15
Approved by			
Head of the Department: Warehouse D. R. LUMARAN	DVP		26-10-15
Head of the Department (QA) D. Suresh Babu	QMC		26/10/15
Authorized by			
RAMAN K. RAMACHANDRAN	CEO		28/10/15

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharma plan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		
	Equipment Name	Fork Lift	
	Project #	120310	
	Document #	DS-FKL 01	
1	Process requirements		
1.1	A forklift is a powered industrial truck used to lift and move materials for short distances.		
2	Equipment ID		
2.1	DS-FKL 01, 02, 03		
3	Technical Specification		
3.1	Model	Standard	
3.2	Type	Battery operated	
3.3	Maximum Lift height	3000 mm	
3.4	Fork Dimension	xx	
3.5	Load Capacity	1200 Kgs	
3.6	Capacity at maximum fork height	1200 Kgs	
3.7	Mast type	xx	
3.8	Height of mast extended	xx	
3.9	Free lift	xx	
3.10	Aisle (pallet to pallet)	2.8 meters	
3.11	Overall Size	xx	
3.12	Width across fork	xx	
3.13	Turning radius	xx	
3.14	Lift Motor	xx kw	
3.15	Mast tilt (forward/backward)	xx deg	
3.16	No of tyres	4 nos	
3.17	Quantity	3	
4	Material of Construction		
4.1	Main Body	MS Powder coated	
4.2	Wheels (All)	Solid rubber	
5	Specific Equipment requirement		
5.1	Over head guard		
5.2	The stacker shall be battery operated		
5.3	Battery and battery Charger		
5.4	Vendor to confirm the lifting capacity at the maximum level		
5.5	Spare battery with trolley to be provided.		
6	Other requirement		
6.1	Operator seat		

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		 HBL <small>HLL BIOTECH LIMITED Subsidiary of HLL Lifescare Limited A Government of India Enterprise</small>
	Equipment Name	Fork Lift	
	Project #	120310	
	Document #	DS-FKL 01	
6.2	Easy and quick removal of battery		
6.3	Break arrangement to stop during the movement and while parking		
6.4	Steering handle: "Full function control handle", with all controls (forward / reverse and lift / lower)		
6.5	Battery discharge indicator with lift lock out.		
6.6	Horn		
6.7	Reverse travel alarm		
6.8	Battery capacity: xx		
6.9	Fork adjustment facility		
6.10	Drive Padel		
6.11	Hour Meter		
7	Regulatory aspects		
7.1	Not applicable		
8	Safety requirements		
8.1	Emergency stop switch		
8.2	Flashing light		
9	Documents		
9.1	Operational and maintainance manual		
10	Timelines		
10.1	Not Applicable		
11	Preferred list of Makes		
11.1	Not Applicable		
NOTE: Accurate size and technical specification need to be mentioned by the vendor			
XX - Vendor to specify			

Equipment Specification Data Sheet

Equipment Name: High Reach Stacker

Document No.: DS-HRS 01

Revision: 01

Project No.: 120310

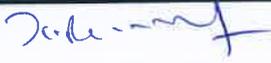
Project Name: Integrated Vaccines Complex,
Chengalpattu

Block Code	Block Name	Equipment ID	Capacity	Quantity
W1	Warehouse	W1-HRS-01 W1-HRS-02	-	2 Nos.

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
Prepared & Checked by			
Mr. Eswara Murthy	Senior Project Manager		15/10
Approved by			
Mr. Sunil K. Mule	Senior Project Manager		16/10/15

NLL Biotech Limited

Name	Designation	Signature	Date
Reviewed by			
Use/department: Warehouse K. RAVI KISHANAN	DY. MANAGER.		19-10-15
Project / Engineering department RAVI T-R	DY. MANAGER	T-R. 	20-10-15
Approved by			
Head of the Department: Warehouse B.R. KUMARAN	DUP		26-10-15
Head of the Department (QA) S. SURESH	DUP		26/10/15
Authorized by			
RAMAN K. RAMACHANDRAN	CEO		28/10/15

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharmaplan	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		 <small>HLL BIOTECH LIMITED (a subsidiary of HLL Life Sciences Limited) H-2, Sector 14, Gurgaon, Haryana</small>
	Equipment Name	High Reach Stacker	
	Project #	120310	
	Document #	DS-HRS 01	
1	Process requirements		
1.1	High reach stacer is a device used to lift and load materials at elevated heights.		
2	Equipment ID		
2.1	DS-HRS 01, 02		
3	Technical Specification		
3.1	Model	Standard	
3.2	Type	Battery operated	
3.3	Maximum Lift height	8000 mm	
3.4	Pallet specification	1200mm x 1000mm	
3.5	Load Capacity per pallet	1000 kg (payload)	
3.6	Capacity at maximum fork height	1000 Kg	
3.7	Mast type	xx	
3.8	Collapsed height	xx	
3.9	Free lift	xx	
3.10	Aisle (pallet to pallet)	2.8 meters	
3.11	Overall Size	xx	
3.12	Quantity	2	
4	Material of Construction		
4.1	Main Body	MS Powder coated	
4.2	Wheels (All)	PU	
5	Specific Equipment requirement		
5.1	Vendor to confirm the lifting capacity at the maximum height		
5.2	Spare Battery with trolley to be provided		
5.3	Steering handle: "Full function control handle", with all controls (forward / reverse and lift / lower)		
6	Other requirement		
6.1	Fork adjustment facility		
6.2	Operator seat		
6.3	Easy and quick removal of battery		
6.4	The stacker shall be battery operated		
6.5	Battery discharge indicator with lift lock out.		
6.6	Horn		
6.7	Battery and battery Charger.		
6.8	Reverse travel alarm		
6.9	Battery capacity: xx		
6.10	Drive pedal		
6.11	Hour meter		

Equipment Specification Data Sheet		
HLL Biotech Limited, Chennai		
one pharmaplan	INTEGRATED VACCINES COMPLEX, CHENGALPATTU	
	Equipment Name	High Reach Stacker
	Project #	120310
	Document #	DS-HRS 01
		
7	Regulatory aspects	
7.1	Vendor to get the required statutory approval for operation.	
8	Safety requirements	
8.1	Break arrangement to stop during the movement and while parking	
8.2	Flashing light	
8.3	Over head guard	
8.4	Emergency stop switch	
9	Documents	
9.1	Operational and maintainance manual	
10	Timelines	
10.1	Not Applicable	
11	Preferred list of Makes	
11.1	Not Applicable	
NOTE: Accurate size and technical specification need to be mentioned by the vendor		
XX - Vendor to specify		

Equipment Specification Data Sheet

Equipment Name: Pallet Storage Racks - 6 Tier

Document No.: DS-PSS 01

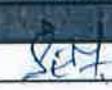
Revision: 02

Project No.: 120310

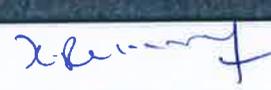
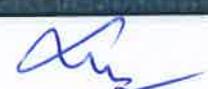
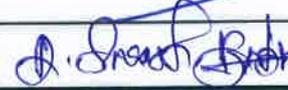
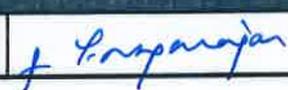
Project Name: Integrated Vaccines Complex,
Chengalpattu

Block Code	Block Name	Equipment ID	Capacity	Quantity
W1	Warehouse	W1-PSS-01	-	960 Nos.

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
Prepared & Checked by			
Mr. Eswara Murthy	Senior Project Manager		15/10
Approved by			
Mr. Sunil K. Mule	Senior Project Manager		16/10/15

HLL Biotech Limited

Name	Designation	Signature	Date
Reviewed by			
User Department Warehouse K. PRADHA KRISHNAN	Dy. MANAGER.		19.10.15
Project / Engineering department RAVI. T-R	DY. MANAGER	T. R. 	20.10.15
Approved by			
Head of the Department Warehouse D. R. KUMARAN	Dy. M		26.10.15
Head of the Department (QA) A. SURESH BABU	Dy. M		26/10/15
Authorized by			
RAMAN K. RAMACHANDRAN	CEO		28/10/15

Equipment Specification Data Sheet					
HLL Biotech Limited, Chennai					
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		 <small>HLL BIOTECH LIMITED (A Subsidiary of HLL Biotech - a part of A Government of India Company)</small>		
	Equipment Name	Pallet Storage Racks - 6 Tier			
	Project #	120310			
	Document #	DS-PSS 01			
1	Process requirements				
1.1	Pallet storage rack is a material handling storage aid system designed to store materials on pallets.				
2	Equipment ID				
2.1	DS-PSS 01				
3	Technical Specification				
3.1	Location	RM Store + Auxillary Material storage + Secondary Packaging Store			
3.2	Height of Pallet	150 mm			
3.3	Pallet size	1000mm x 1200mm Four side opening			
3.4	Holding Capacity	500 kg per pallet			
3.5	Rack Dimension	Double pallet - 1000 x 2400 mm			
		Single pallet - 1000 x 1200 mm			
		Height between the tier - 1200 mm			
3.6	No. of Tiers	06			
3.7	Total rack height	Upright height - 7000 mm			
3.8	Clear height	9000 mm			
3.9	Quantity	Location	Double	Single	Pallet capacity
		R.M.Stores	20	0	240 nos
		Auxillary Stores	40	0	480 nos
		Secondary Pkg Stores	20	0	240 nos
		Total	80	0	960 nos
3.10	Total pallet capacity	960 Nos.			
4	Material of Construction				
4.1	MOC	CRS (Cold Rolled Steel) with Epoxy powder coated			
5	Specific Equipment requirement				
5.1	Vendor to provide Pallter stopper, Column guard/Post protector, Row spacer, connecting bar, barriers, base plate.				
5.2	Vendor to provide the pre requisites like floor tolerance and floor finish along with the offer				
6	Other requirement				
6.1	Vendor to provide delivery time along with the offer.				
7	Regulatory aspects				
7.1	Not applicable				
8	Safety requirements				
8.1	vendor to provide safety requirement				
9	Documents				

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharmaplan*	INTEGRATED VACCINES COMPLEX, CHENGALPATTU	 HBL <small>HLL BIOTECH LIMITED (A Subsidiary of HLL Limited) [NSE: HLL] (A Government of India Enterprise)</small>	
	Equipment Name		Pallet Storage Racks - 6 Tier
	Project #		120310
	Document #		DS-PSS 01
9.1	Vendor to provide the drawing with dimensions and specifications along with the offer based on the attached Conceptual Drawing		
10	Timelines		
10.1	Not Applicable		
11	Preferred list of Makes		
11.1	Not Applicable		
NOTE: Accurate size and technical specification need to be mentioned by the vendor			
XX - Vendor to specify			

Equipment Specification Data Sheet

Equipment Name: Pallet Storage Racks - 4 Tier

Document No.: DS-PSF 01

Revision: 02

Project No.: 120310

Project Name: Integrated Vaccines Complex,
Chengalpattu

Block Code	Block Name	Equipment ID	Capacity	Quantity
W1	Warehouse	W1-PSF-01	-	152 Nos.

NNE Pharmapiant India Limited

Name	Designation	Signature	Date
Prepared & Checked by			
Mr. Eswara Murthy	Senior Project Manager		15/10
Approved by			
Mr. Sunil K. Mule	Senior Project Manager		16/10/15

HLL Biotech Limited

Name	Designation	Signature	Date
Reviewed by			
User department Warehouse K. KISHAN KISHWAN	DY MANAGER.		19.10.15
Project / Engineering department RAVI-T.R	DY-MANAGER	T.R.	20.10.15
Approved by			
Head of the Department Warehouse D. R. Kumar	DUT		28.10.15
Head of the Department (QA)	DUT	D. Shreshth	26/10/15
Authorized by			
RAMAN K. RAMACHANDRAN	CEO		28/10/15

Equipment Specification Data Sheet					
HLL Biotech Limited, Chennai					
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU			 <small>HLL BIOTECH LIMITED (Subsidiary to HLL Pharma Limited) (A Government of India Enterprise)</small>	
	Equipment Name	Pallet Storage Racks - 4 Tier			
	Project #	120310			
	Document #	DS-PSF 01			
1	Process requirements				
1.1	Pallet storage rack is a material handling storage aid system designed to store materials on pallets.				
2	Equipment ID				
2.1	DS-PSF 01				
3	Technical Specification				
3.1	Location	AC Primary pkg Material Store + Material staging for Production			
3.2	Height of Pallet	150 mm			
3.3	Pallet size	1000mm x 1200mm Two side opening			
3.4	Holding Capacity	500 kg per pallet			
3.5	Rack Dimension	Double pallet - 1000 x 2400 mm			
		Single pallet - 1000 x 1200 mm			
		Height between the tier - 1200 mm			
3.6	No. of Tiers	04			
3.7	Total rack height	Upright height - 4600 mm			
3.8	Clear height	6000 mm			
3.9	Quantity	Location	Double	Triple	Pallet capacity
		AC Primary pkg Material Store	16	0	128 nos
		Material staging for Production	0	2	24 nos
		Total	16	2	152 nos
3.10	Total pallet capacity	152 nos			
4	Material of Construction				
4.1	MOC	CRS (Cold Rolled Steel) with Epoxy powder coated			
5	Specific Equipment requirement				
5.1	Vendor to provide Pallet stopper, Column guard/Post protector, Row spacer, connecting bar, barriers, base plate.				
5.2	Vendor to provide the pre requisites like floor tolerance and floor finish along with the offer				
6	Other requirement				
6.1	Vendor to provide delivery time along with the offer.				
7	Regulatory aspects				
7.1	Not applicable				
8	Safety requirements				
	Vendor to provide safety requirement				
9	Documents				
9.1	Vendor to provide the drawing with dimensions and specifications along with the offer based on the attached Conceptual Drawing				

Equipment Specification Data Sheet		
HLL Biotech Limited, Chennai		
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU	
	Equipment Name	Pallet Storage Racks - 4 Tier
	Project #	120310
	Document #	DS-PSF 01
 HLL BIOTECH LIMITED <small>(A Subsidiary of HLL Limited)</small> <small>(A Government of India Enterprise)</small>		
10	Timelines	
10.1	Not Applicable	
11	Preferred list of Makes	
11.1	Not Applicable	
NOTE: Accurate size and technical specification need to be mentioned by the vendor		
XX - Vendor to specify		

Equipment Specification Data Sheet

Equipment Name: Pallet Truck Battery Operated

Document No.: DS-PTB 01

Revision: 00

Project No.: 120310

Project Name: Integrated Vaccines Complex, Chengalpattu

Block Code	Block Name	Equipment ID	Capacity	Quantity
W1	Warehouse	W1-PTB-01 W1-PTB-02 W1-PTB-03 W1-PTB-04 W1-PTB-05	-	5 Nos.

NNE Pharamplan India Limited

Name	Designation	Signature	Date
------	-------------	-----------	------

Prepared & Checked by			
Mr. Eswara Murthy	Senior Project Manager		15/10
Approved by			
Mr. Sunil K. Mule	Senior Project Manager		16/10/15

HLL Biotech Limited

Name	Designation	Signature	Date
------	-------------	-----------	------

Reviewed by			
User department: Warehouse	K. RADHAKRISHNAN DY MANAGER.		19.10.15
Project / Engineering department	RAVI-T-R DY-MANAGER	T.R.	20.10.15
Approved by			
Head of the Department: Warehouse	M. R. LAKSHMAN DUT		26.10.15
Head of the Department (QA)			26/10/15
Authorized by			
RAMAN K. RAMACHANDRAN	CEO		28/10/15

Equipment Specification Data Sheet						
HLL Biotech Limited, Chennai						
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU					
	Equipment Name	Pallet Truck Battery Operated				
	Project #	120310				
	Document #	DS-PTB 01				
1	Process requirements					
1.1	A battery operated pallet truck is a tool used to lift and move pallets. pallet trucks are the most basic form and are intended to move heavy or light pallets within a warehouse.					
2	Equipment ID					
2.1	DS-PTB 01, 02, 03, 04, 05					
3	Technical Specification					
3.1	Model	Standard				
3.2	Type	Battery operated				
3.3	No of Wheels	xx				
3.4	Holding Capacity	1200 Kg				
3.5	Size	Standard (xx)				
3.6	Quantity	5				
4	Material of Construction					
4.1	Main Body	Powder coated epoxy on MS				
4.2	Wheels on ball bearing	PU				
5	Specific Equipment requirement					
5.1	Deadman lever type: Break arrangement to stop during the movement.					
5.2	Provision for lifting the main body of the trolley from the wheel height up to a minimum level of 150 mm approx.					
5.3	Battery and battery Charger					
6	Other requirement					
6.1	Easy and quick removal of battery					
6.2	Provision for moving down the main body of the trolley to it's original position.					
6.3	Steering handle: "Full function control handle", with all controls (forward / reverse and lift / lower)					
6.4	Battery discharge indicator with lift lock out.					
6.5	Horn					
6.6	Fork adjustment facility					
6.7	Drive Pedal					
6.8	Hour Meter					
7	Regulatory aspects					
7.1	Not applicable					
8	Safety requirements					
8.1	Emergency stop switch					
8.2	Flashing light					

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharmaplan	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		 HBL HLL BIOTECH LIMITED <small>Subsidiary of HLL Lifescare Limited A Company of India Enterprise</small>
	Equipment Name	Pallet Truck Battery Operated	
	Project #	120310	
	Document #	DS-PTB 01	
9	Documents		
9.1	Operational and maintainance manual		
10	Timelines		
10.1	Not Applicable		
11	Preferred list of Makes		
11.1	Not Applicable		
NOTE: Accurate size and technical specification need to be mentioned by the vendor			
XX - Vendor to specify			

Equipment Specification Data Sheet

Equipment Name: Pallet Truck Manual

Document No.: DS-PTM 01

Revision: 00

Project No.: 120310

Project Name: Integrated Vaccines Complex, Chengalpattu

Block Code	Block Name	Equipment ID	Capacity	Quantity
W1	Warehouse	W1-PTM-01 W1-PTM-02 W1-PTM-03 W1-PTM-04 W1-PTM-05 W1-PTM-06 W1-PTM-07 W1-PTM-08	-	8 Nos.

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
Prepared & Checked by			
Mr. Eswara Murthy	Senior Project Manager		15/10
Approved by			
Mr. Sunil K. Mule	Senior Project Manager		16/10/15

HLL Biotech Limited

Name	Designation	Signature	Date
Reviewed by			
User department: Warehouse	DY. MANAGER		19.10.15
Project / Engineering department	DY. MANAGER		20.10.15
Approved by			
Head of the Department: Warehouse	DVP		26.10.15
Head of the Department (QA)	DM		26/10/15
Authorized by			
RAMAN K. RAMACHANDRAN	CEO		28/10/15

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		
	Equipment Name	Pallet Truck Manual	
	Project #	120310	
	Document #	DS-PTM 01	
1	Process requirements		
1.1	A Manual pallet truck is a tool used to lift and move pallets. pallet trucks are the most basic form and are intended to move heavy or light pallets within a warehouse.		
2	Equipment ID		
2.1	DS-PTM 01, 02, 03, 04, 05, 06, 07, 08		
3	Technical Specification		
3.1	Model	Standard	
3.2	Type	Hydraulic (drip proof)	
3.3	No of Wheels	Vendor to specify	
3.4	Holding Capacity	1000 kg (pay load)	
3.5	Size	Standard (Vendor to Specify)	
3.6	Pallet size	1200mm x 1000mm	
3.7	Quantity	8	
			
4	Material of Construction		
4.1	Main Body	Powder coated epoxy on MS	
4.2	Wheels on ball bearing	PU	
5	Specific Equipment requirement		
5.1	Deadman lever type: Break arrangement to stop during the movement.		
5.2	Provision for lifting the main body of the trolley from the wheel height up to a minimum level of 150 mm approx.		
6	Other requirement		
6.1	The trolley shall be manual operated		
6.2	Provision for moving down the main body of the trolley to it's original position.		
6.3	Pressure build up: manual		
6.4	Pressure release: Foot pedal		
6.5	Spring loaded loop handle for automatic return to vertical position when not in use.		
7	Regulatory aspects		
7.1	Not applicable		
8	Safety requirements		
8.1	Not applicable		
9	Documents		
9.1	Operational manual and maintainace manual		
10	Timelines		
10.1	Not Applicable		
11	Preferred list of Makes		
11.1	Not Applicable		
NOTE: Accurate size and technical specification need to be mentioned by the vendor			
XX - Vendor to specify			

Equipment Specification Data Sheet

Equipment Name: PP Pallet

Document No.: DS-PPP 01

Revision: 02

Project No.: 120310

Project Name: Integrated Vaccines Complex,
Chengalpattu

Block Code	Block Name	Equipment ID	Capacity	Quantity
W1	Warehouse	W1-PPP-01	-	1200 Nos.

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
Prepared & Checked by			
Mr. Eswara Murthy	Senior Project Manager		15/10
Approved by			
Mr. Sunil K. Mule	Senior Project Manager		16/10/15

HLL Biotech Limited

Name	Designation	Signature	Date
Reviewed by			
User department: Warehouse K. R. RAMACHANDRAN	DY MANAGER		19.10.15
Project / Engineering department RAVI-T-R	DY-MANAGER	T. R.	20.10.15
Approved by			
Head of the Department: Warehouse K. R. L. L. L. L. L.	D VP		26/10/15
Head of the Department (QA) D. Suresh Babu	DGM		26/10/15
Authorized by			
RAMAN K. RAMACHANDRAN	CEO		28/10/15

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		 HBL <small>HLL BIOTECH LIMITED (Subsidiary of HLL Lifecare Limited) (A Government of India Enterprise)</small>
	Equipment Name	PP Pallet	
	Project #	120310	
	Document #	DS-PPP 01	
1	Process requirements		
1.1	Pallet is a flat transport structure that supports goods in a stable fashion while being lifted by material handling equipments and pallet is the structural foundation of a unit load which allows handling and storage efficiencies.		
2	Equipment ID		
2.1	DS-PPP 01		
3	Technical Specification		
3.1	Model	Standard	
3.2	No of Ribs	xx	
3.3	Holding Capacity	500 kgs	
3.4	Quantity	1200 Nos.	
3.5	Dimension		
	Size	1000 x 1200 mm x 150 mm	
	Top frame	xx	
	Legs	xx	
4	Material of Construction		
4.1	MOC	PP	
5	Specific Equipment requirement		
5.1	Strapping hook to be provided on legs		
6	Other requirement		
6.1	Vendor to provide the drawing with dimensions and finishes for approval.		
7	Regulatory aspects		
7.1	Not applicable		
8	Safety requirements		
8.1	Safety edges as per safety norms		
9	Documents		
9.1	Vendor to provide the drawing with dimensions and finishes for approval.		
10	Timelines		
10.1	Not Applicable		
11	Preferred list of Makes		
11.1	Not Applicable		
	NOTE: Accurate size and technical specification need to be mentioned by the vendor		
	XX - Vendor to specify		

Equipment Specification Data Sheet

Equipment Name: Q Manager

Document No.: DS-QMR 01

Revision: 01

Project No.: 120310

Project Name: Integrated Vaccines Complex,
Chengalpattu

Block Code	Block Name	Equipment ID	Capacity	Quantity
W1	Warehouse	W1-QMR-01 W1-QMR-02 W1-QMR-03 W1-QMR-04 W1-QMR-05	-	5 Nos.

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
------	-------------	-----------	------

Prepared & Checked by			
Mr. Eswara Murthy	Senior Project Manager		15/10
Approved by			
Mr. Sunil K. Mule	Senior Project Manager		15/10/15

HLL Biotech Limited

Name	Designation	Signature	Date
------	-------------	-----------	------

Reviewed by			
User department: Warehouse	K. RANHAKRISHNAN DY. MANAGER		19.10.15
Project / Engineering department	RAVI.T.R DY. MANAGER	T. R.	20.10.15
Approved by			
Head of the Department: Warehouse	Dr. K. Kumaran DUP		26.10.15
Head of the Department (QA)	D. Suresh DUP		26/10/15
Authorized by			
RAMAN K. RAMACHANDRAN	CEO		28/10/15

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		
	Equipment Name	Q Managers	
	Project #	120310	
	Document #	DS-QMR 01	
1	Process requirements		
1.1	Q Managers is used for managing queues		
2	Equipment ID		
2.1	DS-QMR 01, 02, 03, 04, 05		
3	Technical Specification		
3.1	Model	Standard	
3.2	Type	Retractable belt post	
3.3	Hieght	1 mt	
3.4	Base	360mm	
3.5	Tube Dia	80mm	
3.6	Tube thickness	Vendor to specify	
3.7	Length of the belt	2.5 Mts	
3.8	Weight	9 - 10Kgs	
3.9	Casette	3 Receiving & 1 Extension end for 4 way connectivity	
3.10	Balancing weight of Cast Iron	6 Kgs	
3.11	Color	Blue/Black	
3.12	Quantity	5	
4	Material of Construction		
4.1	Main Body	SS	
4.2	Belt barrier	Chrome	
5	Specific Equipment requirement		
5.1	Not applicable		
6	Other requirement		
6.1	Vendor to specify the specification and MOC in the offer		
7	Regulatory aspects		
7.1	Not applicable		
8	Safety requirements		
8.1	No sharp edges		
9	Documents		
9.1	Not applicable		
10	Timelines		
10.1	Not Applicable		
11	Preferred list of Makes		
11.1	Not Applicable		
NOTE: Accurate size and technical specification need to be mentioned by the vendor			
XX - Vendor to specify			

Equipment Specification Data Sheet

Equipment Name: Stacker

Document No.: DS-STK 01

Revision: 01

Project No.: 120310

Project Name: Integrated Vaccines Complex,
Chengalpattu

Block Code	Block Name	Equipment ID	Capacity	Quantity
W1	Warehouse	W1-STK-01 W1-STK-02	-	2 Nos.

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
Prepared & Checked by			
Mr. Eswara Murthy	Senior Project Manager	<i>[Signature]</i>	15/10
Approved by			
Mr. Sunil K. Mule	Senior Project Manager	<i>[Signature]</i>	16/10/15

HLL Biotech Limited

Name	Designation	Signature	Date
Reviewed by			
Use department Warehouse <i>K. RAMESH KRISHNAN</i>	Dy MANAGER	<i>[Signature]</i>	19.10.15
Project / Engineering department <i>RAVI. T. R</i>	DY-MANAGER	<i>T. R. Ravi</i>	20.10.15
Approved by			
Head of the Department: Warehouse <i>K. R. Lakshman</i>	DUP	<i>[Signature]</i>	26.10.15
Head of the Department (QA) <i>[Signature]</i>	DMN	<i>[Signature]</i>	26/10/15
Authorized by			
<i>RAMAN K. RAMACHANDRAN</i>	CEO	<i>[Signature]</i>	28/10/15

Equipment Specification Data Sheet

HLL Biotech Limited, Chennai

nne pharmaplan®

INTEGRATED VACCINES COMPLEX,
CHENGALPATTU

Equipment Name: **Stacker**

Project #: **120310**

Document #: **DS-STK 01**



1 Process requirements

1.1 Stacer is a device used to lift and load materials at elevated heights.

2 Equipment ID

2.1 DS-STK 01, 02

3 Technical Specification

3.1	Model	Standard
3.2	Type	Battery operated
3.3	Maximum Lift height	5000 mm
3.4	Pallet specification	1200mm x 1000mm
3.5	Load Capacity per pallet	1000 kg (payload)
3.6	Capacity at maximum fork height	1000 Kg
3.7	Mast type	xx
3.8	Collapsed height	xx
3.9	Free lift	xx
3.10	Aisle (pallet to pallet)	2.8 meters
3.11	Overall Size	xx
3.12	Quantity	2



4 Material of Construction

4.1	Main Body	MS Powder coated
4.2	Wheels (All)	PU

5 Specific Equipment requirement

- 5.1 Vendor to confirm the lifting capacity at the maximum height
- 5.2 Spare Battery with trolley to be provided
- 5.3 Steering handle: "Full function control handle", with all controls (forward / reverse and lift / lower)

6 Other requirement

- 6.1 The stacker shall be battery operated
- 6.2 Operator seat
- 6.3 Easy and quick removal of battery
- 6.4 Horn
- 6.5 Battery and battery Charger.
- 6.6 Reverse travel alarm
- 6.7 Battery discharge indicator with lift lock out.
- 6.8 Battery capacity: xx

Equipment Specification Data Sheet		
HLL Biotech Limited, Chennai		
nne pharmaplan*	INTEGRATED VACCINES COMPLEX, CHENGALPATTU	
	Equipment Name	Stacker
	Project #	120310
	Document #	DS-STK 01
 <small>HLLBIOTECH LIMITED Subsidiary of HLL (Private) Limited (A Government of India Enterprise)</small>		
6.9	Fork adjustment facility	
6.10	Drive padel	
6.11	Hour meter	
7	Regulatory aspects	
7.1	Vendor to get the required statutory approval for operation.	
8	Safety requirements	
8.1	Break arrangement to stop during the movement and while parking	
8.2	Over head guard	
8.3	Flashing light	
8.4	Emergency stop switch	
9	Documents	
9.1	Operational and maintainance manual	
10	Timelines	
10.1	Not Applicable	
11	Preferred list of Makes	
11.1	Not Applicable	
NOTE: Accurate size and technical specification need to be mentioned by the vendor		
XX - Vendor to specify		

Equipment Specification Data Sheet

Equipment Name: Storage Racks - Shelf Type

Document No.: DS-SSR 01

Revision: 02

Project No.: 120310

**Project Name: Integrated Vaccines Complex,
Chengalpattu**

Block Code	Block Name	Equipment ID	Capacity	Quantity
W1	Warehouse	W1-SSR-01	-	135 Mtrs

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
Prepared & Checked by			
Mr. Eswara Murthy	Senior Project Manager		15/10
Approved by			
Mr. Sunil K. Mule	Senior Project Manager		16/10/15

HLL Biotech Limited

Name	Designation	Signature	Date
Reviewed by			
User department Warehouse K. RAMACHANDRAN	PY MANAGER.		19.10.15
Project / Engineering department RAN-T-R	DY-MANAGER	T. R. RAO	20.10.15
Approved by			
Head of the Department: Warehouse K. Ramachandran	DUT		26.10.15
Head of the Department (QA) S. Srinivasan	DUT		26/10/15
Authorized by			
RAMAN K. RAMACHANDRAN	CEO		28/10/15

Equipment Specification Data Sheet				
HLL Biotech Limited, Chennai				
nne pharmaplan	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		 HLL BIOTECH LIMITED <small>(A Company of IIT, Chennai - IITeM) (A Government of India Enterprise)</small>	
	Equipment Name	Storage racks - Shelf type		
	Project #	120310		
	Document #	DS-SSR 01		
1	Process requirements			
1.1	Storage rack is a material handling storage aid system designed to store materials on shelf.			
2	Equipment ID			
2.1	DS-SSR 01			
3	Technical Specification			
3.1	Location	Cold Storage + AC Storage		
3.2	Holding Capacity	1000 kg per rack		
3.3	No. of Tiers	3 (Bottom tier 1200mm + 1st and top tier - 600mm)		
3.4	Total rack height	Upright height - 2200 mm		
3.5	Width of Rack	1000 mm		
3.6	Available height	3000 mm		
3.7	Dimension	Location	Dimension - mm	Total length - mm
		Cold room return goods	6000	6000
		Cold room finished goods	11700, 8800	20500
		Cold room Quarantine for packed (CDL approval)	14500, 11600	26100
		Cold room Quarantine for packed (Internal QC approval)	11600, 8700	20300
		A/C reject goods	5800, 5800	11600
		A/C Quarantine	10600, 4800, 4800, 2900, 2900	26000
		A/C	4800, 4800	9600
		Engineering stores	7800, 7800	15600
		Total		135700
4	Material of Construction			
4.1	MOC	CRS (Cold Rolled Steel) with Epoxy powder coated		
5	Specific Equipment requirement			
5.1	Vendor to provide Column guard/Post protector, barriers, base plate.			
5.2	Vendor to provide the pre requisites like floor tolerance and floor finish along with the offer			
6	Other requirement			
6.1	Vendor to provide delivery time along with the offer.			
7	Regulatory aspects			
7.1	Not applicable			

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		 HBL <small>HLL BIOTECH LIMITED Subsidiary of HLL Limited (Group) of Government of India Enterprise</small>
	Equipment Name	Storage racks - Shelf type	
	Project #	120310	
	Document #	DS-SSR 01	
8	Safety requirements		
8.1	Vendor to specify safety requirement		
9	Documents		
9.1	Vendor to provide the drawing with dimensions and specifications along with the offer based on the attached Conceptual Drawing		
10	Timelines		
10.1	Not Applicable		
11	Preferred list of Makes		
11.1	Not Applicable		
NOTE: Accurate size and technical specification need to be mentioned by the vendor			
XX - Vendor to specify			