



## **Kerala state drugs and pharmaceuticals ltd.**

a government of kerala enterprise

factory & Office  
kalavoor – 688 522  
alappuzha, India

phone : 258181  
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email : [ksdpltd@gmail.com](mailto:ksdpltd@gmail.com)  
Website : [www.ksdpltd.com](http://www.ksdpltd.com)

fax : 0477-258162  
: 0477-258262

### Supplier's Copy

## **USER REQUIREMENT SPECIFICATION**

<b>Name of the Company</b>	:	
<b>Contact Person</b>	:	
<b>Address</b>	:	
<b>Contact Details</b>	:	
<b>Department</b>	:	<b>SVP packing – Ground floor</b>
<b>Equipment and Code No.</b>	:	<b>Visual Vial Inspection machine</b> <i>(Manual inspection against black &amp; white board)</i> Length of inspection belt : 2.5 mt long (Sitting arrangement for 6 operators , 3 on each side) with SS turn tables of dia 900 mm on both side for loading unloading of vials
<b>Scope</b>	:	<i>Supply, Installation and commission of visual Vial inspection machine with black and white board and light arrangement for 2 ml to 30 ml filled Vials with turn table on both end for loading ,unloading of vials , at site of M/s. KSDPL-Kerala for LVP packing section at ground floor.</i>
<b>Ref. No.</b>	:	
<b>Date</b>	:	
<b>Enclosures</b>	:	
<b>Qty.</b>	:	<b>1 No.</b>



### **CONSULTANT : M/S. KNACK TECHNOCRATS**

42, AVINASH, 7 BUNGALOWS, J.P. ROAD, ANDHERI (W), MUMBAI – 400 053

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**VISAUL VIAL INSPECTION MACHINE WITH TURN TABLE**  
**(FOR 2 ML TO 30 ML VIALS)**

**ANNEXURE - I : BASIC DETAILS OF THE MACHINE**

<b>DESCRIPTION</b>	
(To be specified by the supplier, if any variation)	
Machine	: Visual Vial inspection conveyor belt of 3 tracks (manual inspection) of 2 ml to 30 ml filled vials
Type of Inspection	: Manual
Model	: <b>GMP</b>
Output	: Output Depends upon the efficiency of operator, Speed of conveyor : For 2 to 10 ml : 150 to 180 vials/min * For 20 to 30 ml : 100 to 120 vials/min* (Depending upon vial size and operator)
Vial Size	: 2 ml, 5 ml, 10ml, 20ml and 30 ml
Working Direction	: Left to Right
No. of Operators	: 6 nos.(3 operators at each side)
<b>Turn Table at infeed &amp; outfeed of inspection belt</b>	: 900 mm dia – 2 nos.

\* To be specified by the supplier



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### ANNEXURE - II : CGMP FEATURES

DESCRIPTION		
( To be specified by the supplier, if any variation)		
<b>MOC</b>	:	
Black & white board	:	SS 304 sheet with black & white color vinyl board
Main body & Top plate	:	SS 304 pipe structure
SS sheet thickness	:	16 swg
SS loading and un loading table	:	SS 304 16 swg
General Nuts & Bolts	:	SS 304
<b>Turn Table</b>		
<b>Top plate</b>	:	<b>Aluminium casted top plate lined with SS 304 *</b>
<b>Frame</b>	:	<b>SS 304 pipes with four adjustable legs *</b>
<b>Covers</b>	:	<b>SS 304 16 swg</b>
Product guide	:	SS 304 flat guide
Finish	:	Matt Finish
The equipment should be of smooth finish without any sharp edges and crevices		

\* To be specified by the supplier



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### **ANNEXURE - III : OPERATIONAL FEATURES**

<b>DESCRIPTION</b>	
( To be specified by the supplier, if any variation)	
Length of Conveyor	: 2500 mm long *
Width of Conveyor	: 900 mm *
Number of track	: 3 track conveyor belt
<b>Turn Table</b>	: <b>900 mm dia. (2 nos.)</b> <b>At infeed and outfeed</b>
Operating Height	: 750 mm ( $\pm$ 50 adjustable)
Tube Light	: LED lights (8 nos.)
After loading vial at in feed turn table , it will travel on conveyor , operator will pick each vial and will inspect with the help of black and white board under light and found ok will put on center conveyor and through center conveyor it will be collected on out feed turn table . If any vial found with some defects, that will be removed manually and will kept on a collection tray.	
Vial rejection – Operator to check manually.	
Output : Will depend upon the operator's efficiency	
Approximate vial to be inspected : 48000 of 10 ml (in 8 to 10 hours)	

**\* To be specified by the end user**



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### ANNEXURE - IV : ELECTRICAL DETAILS

DESCRIPTION	
( To be specified by the supplier, if any variation)	
Standard Operating Frequency	: 50 Hz
Standard Operating Voltage	: 230 / (single phase)
RPM	: 1440
Motor Details	: 1 to 1.5 HP for conveyor 0.5 to 0.75 HP for one turn table
Gear Box and Belt Details	: Rotomotive /Bonfiglioli make
VFD Details	: Allen Bradly/Mitsubishi make
<b>Major Cabling details</b>	
Cable size required for input of machine as per connected load	: *
Earthing requirement	: To be provided with machine by vendor
An Isolator Circuit breaker	: To be supplied with machine at power supply in point of appropriate capacity by vendor. *
Cables and connection from machine panel, or switch or starter should be in scope of vendors, client will arrange only incoming cable to this machine's panel or up to starter *	
<i>Any other detail not mentioned above, but required for operation of machine should be included in scope of supply</i>	

\* To be specified by the supplier



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**ANNEXURE - V : CLEANING TECHNIQUE**

<b>DESCRIPTION</b>		
( To be specified by the supplier, if any variation)		
Mode of machine cleaning	:	Manually
Use of Lubricants (for any moving parts)	:	*
All contact parts should be easily dismantled and cleanable.		

\* To be specified by the supplier



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**ANNEXURE - VI : PHYSICAL DETAILS**

<b>DESCRIPTION</b>		
(To be specified by the supplier, if any variation)		
Dimension (In mm)	:	*
Floor Space (In mm)	:	*
Net Weight (In Kgs.)	:	*
Type of Packing	:	*
Case Dimension (In mm)	:	*
Gross Weight (In Kgs.)	:	*
Foundation details (If required)	:	*

**\* To be specified by the supplier**



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### **ANNEXURE - VII : LIST OF ANCILLARY / ACCESSORIES / OPTIONAL ITEMS**

#### **DESCRIPTION**

( To be specified by the supplier, if any variation)

#### **Vendors should provide the following with estimate**

- Recommended Spares list
- *List of Bought out components if any.*
- *Any other ancillary or accessories required*
- *Optional items –if any*
- *Any other items which is required but not mentioned should be informed.*

All items that is required for successful commission and working of machine should be included in scope of supply. \*

**\* To be specified by the supplier**



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**ANNEXURE - VIII : TRAINING REQUIREMENT**

Training to all concern of KSDPL, Kerala for Installation, Operation, Maintenance and Cleaning of Visual Vial Inspection conveyor protocol should be provided.



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List of all Documents to be supplied along with equipment [AS APPLICABLE]

Sr. No.	Document to be supplied	Qty	Remarks
1	Design and operational qualification	2 sets	
2	SAT/FAT procedures	2 sets	
3	Operation manual	2 sets	
4	Maintenance manual	2 sets	
5	Spare parts manual	2 sets	
6	All engineering drawings	2 sets	
7	List of instruments	2 sets	
8	Calibration certificates	2 sets	
9	Warranty / Guarantee	2 sets	
10	List of all components with referencing	2 sets	
11	Civil foundation drawings	2 sets	
12	Pre installation requirements	2 sets	
13	Installation requirements	2 sets	
14	Installation manual	2 sets	
15	Technical literature, data sheets and equipment catalogues	2 sets	
16	DQ, IQ, PQ documents.	2 sets	
17	Calibration Report of all sensors, controllers, PLC, transmitters, indicators etc.	2 sets	
18	Test Certificates of all material of construction	2 sets	
19	Test Certificates of the software used in machine control / monitoring system.	2 sets	

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### **ANNEXURE - X : TERMS AND CONDITIONS**

Delivery Period	:	<b>As per tender</b>
Payment Terms	:	<b>As per tender</b>
Packaging and Forwarding	:	<b>As per tender</b>
GST	:	<b>As per actuals</b>
Unloading and placing of machine at particular position at site	:	<b>By vendor or to be arranged by the vendor at site</b>
Installation and Commissioning	:	<b>By vendor</b>
<b>Submission of documents and drawings</b>		
Response to URS and submission of quotation	:	Within 1 week
Submission of detail functional design specification and schematic drawings	:	Within a week after order finalization
Submission of FAT / SAT specification	:	2 weeks before FAT
Submission of IQ AND OQ documents	:	With equipment delivery
Drawings / diagrams	:	Within one week of receiving PO
The supplier should notify customer 2 weeks in advance of the beginning of FAT		
Catalogue, Equipment drawing, List of clients and year of establishment to be submitted alongwith technical bid.		
<i>Any other terms, not mentioned above, also to be specified.</i>		

**\* To be specified by the supplier**



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### **ANNEXURE - XI : ABBREVIATION**

1.	URS	:	User Requirement Specification.
2.	KSDPL	:	Kerala State Drugs & Pharmaceuticals Ltd.
3.	DQ	:	Design Qualification
4.	IQ	:	Installation Qualification
5.	OQ	:	Operational Qualification
6.	PQ	:	Performance Qualification
7.	SS	:	Stainless Steel
8.	RHS	:	Right Hand Side
9.	MOC	:	Material of Construction
10.	KW	:	Kilo Watt
11.	HP	:	Horse Power
12.	RPM	:	Rotation Per Minute
13.	FLP	:	Flame Proof
14.	cGMP	:	Current Goods Manufacturing Practices
15.	O&M	:	Operation and Maintenance
16.	GA	:	General Arrangement
17.	SLD	:	Single Line Diagram
18.	HOD	:	Head of Department
19.	QA	:	Quality Analysis
20.	MRP	:	Maximum Retail Price
21.	NMT	:	Not more than
22.	VFD	:	Variable frequency drive

**Any other details, not mentioned in Annexure I to XI, to be specified in the quotation/specification by the vendor.**



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<b>Contact Person</b>	:	
<b>Address</b>	:	
<b>Contact Details</b>	:	
<b>Department</b>	:	<b>SVP packing – Ground floor</b>
<b>Equipment and Code No.</b>	:	<b>Automatic Vertical Vial Sticker Labeling Machine</b> (for 2, 5, 10, 20 and 30 ml vials)
Scope	:	Supply, Installation and commission of automatic Vial sticker labelling machine for 2 ml, 5 ml, 10, ml ,20 ml and 30 ml filled vials with connecting arrangement from inspection machine to labelling machine, at site of M/s. KSDPL-Kerala for LVP packing section at ground floor.
<b>Date</b>	:	
<b>Enclosures</b>	:	
<b>Qty.</b>	:	<b>1 No.</b>



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## AUTOAMTIG VERTICAL VIAL STICKER LABELLING MACHINE

### ANNEXURE - I : BASIC DETAILS OF THE MACHINE

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Machine	: Automatic Vertical Vial Sticker Labeling Machine (For Vial of 2 ml, 5ml, 10 ml , 20 ml and 30 ml vials)
Type	: Automatic
Model	: GMP
Working Principle	: Left to Right
Output	: For 2 to 10 ml : 150 to 180 vial/min For 20 to 30 ml : 100 to 120 vial/min
Basic machine with Container	: 10ml vials For other fill volume – Change parts for each volume
10 ml vials	
Vial diameter	: 24 mm $\pm 1.5$ *
Vial height	: 45 $\pm 1$ mm*
20 ml vials	
Vial diameter	: 30 $\pm 1.5$ mm *
Vial height	: 55 $\pm 1$ mm*
30 ml vials	
Vial diameter	: 30 $\pm 1.5$ mm *
Vial height	: 75 $\pm 1$ mm*



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<b>DESCRIPTION</b>	
(To be specified by the supplier, if any variation)	
Label width range	: 10 mm to 80 mm
Label length	: 10 mm minimum
Gap between two labels	: 3 mm minimum
Maximum label stock diameter	: 300 mm
Core diameter of label stock	: 75 mm
<b>As per product label details</b>	
For 5 ml	: 70x18 mm (LxB)
For 10 ml	: 70x25 mm (LxB)
For 20 ml	: 90x30 mm (LxB)
For 30 ml	: 105x30 mm (LxB)
PLC	: Servo based PLC control with 7" touch screen
Printer	: Ink Jet Printer (Make : Domino /HQ/Hitech/Jet Ink)

**\* To be specified by the supplier****CONSULTANT : M/S. KNACK TECHNOCRATS**

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: 0477-258262**ANNEXURE - II : CGMP FEATURES**

<b>DESCRIPTION</b>		
( To be specified by the supplier, if any variation)		
<b>MOC</b>		
Main Body And Top Plate	:	SS 304 & if any MS parts, should be duly SS 304 Sheet Cladded
SS sheet thickness	:	16 swg
Doors, Covers, Conveyor Side Channel	:	SS 304
Conveyor Slat chain Sprockets	:	90 to 100 mm wide delrin slat , endless rubber belt
<b>Dispenser Assy.</b>		
Label guide rollers	:	SS 304 / Aluminium
Label Guide Ring	:	Nylon *
Dispenser Parts	:	Aluminium
Finish	:	Matt *
The equipment should be smooth finished without any sharp edges and crevices		

**\* To be specified by the supplier****CONSULTANT : M/S. KNACK TECHNOCRATS**

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### **ANNEXURE - III : PROCESS CONTROL FEATURES**

<b>DESCRIPTION</b>	
( To be specified by the supplier, if any variation)	
Variation in speed of the machine	: By VFD
Machine Operation Control	: By Programmable Logic Controller (PLC)
Machine Operational Interface	: By Pre-programmed HMI screen with function keys.
Control Panel	: In built Control Panel to be provided with isolator
The machine to include: <ul style="list-style-type: none"><li>➤ Non Container – No Label system *</li><li>➤ Emergency stop</li><li>➤ Machine with inbuilt pressing unit</li><li>➤ Suitable for online printing</li></ul>	

**\* To be specified by the supplier**



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### **ANNEXURE - IV : OPERATIONAL FEATURES**

<b>DESCRIPTION</b>	
( To be specified by the supplier, if any variation)	
Label Width (Height) Range	: 10 mm to 80 mm (depend on container size)
Label Length Range	: 10 mm minimum (depend on container size)
Gap Between Two Labels	: 3 mm min.
Max. Label Stock (Roll) Dia.	: 300 mm
Core Dia. Of Label Stock	: 75 mm
Product Conveyor	: 90 to 100 mm Slat conveyor / Endless Rubber Belt*
Label Dispenser	: Servo motor with driver
Product Separating Device	: 'O' Ring Type space
Label Pressing System	: Wrap Around System
Machine operating height	: 850 mm + 50 mm
Label Sensor	: Should be included with machine (Sick / Baumer / Banner' Make
Product sensor	: Should be included with machine (Sick / Baumer / Banner' Make

**\* To be specified by the supplier**



### **CONSULTANT : M/S. KNACK TECHNOCRATS**

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### ANNEXURE - V : ELECTRICAL DETAILS

DESCRIPTION	
( To be specified by the supplier, if any variation)	
Standard Operating Frequency	: 50 Hz
Standard Operating Voltage	: 415V
RPM	: 1440
Motor Details	: <b>0.75 to 1 HP motor</b>
Gear Box Details	: <b>Bonfiglioli/Rotomotive make</b>
VFD Details	: Allen Bradly/Mitsubishi make 0.5 to 1 HP
<b>Major Cabling details</b>	
Cable size required for input of machine as per connected load	: *
Starter details	: Star/Delta (If required –should be provided)
Earthing requirement	: To be provided with machine by vendor
An Isolator Circuit breaker	: To be supplied with machine at power supply in point of appropriate capacity by vendor. *
Cables and connection from machine panel, or switch or starter should be in scope of vendors, client will arrange only incoming cable to this machine's panel. *	

\* To be specified by the supplier



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### **ANNEXURE - VI : SAFETY FEATURES**

<b>DESCRIPTION</b> ( To be specified by the supplier, if any variation)
Safety of machine operation is of utmost importance. To ensure safety, all upper guards to be fitted with interlock switches.
The machine to be provided with motor overload safety relay.
In the event of machine malfunction or stoppage of utilities, the unit must contain all necessary protection devices to ensure that machine and product remain in safe condition.
Machine settings should not get disturbed due to power failure. Machine should not restart without human intervention.
Machine should indicate fault through audio / visual signal with details on Control panel/PLC (Failure mode detection)
An easily accessible emergency stop to be provided on main control panel door.
Lubricant should not come in product contact. *
Wherever possible, warning symbols should be provided.
Electrical wiring must be concealed*

**\* To be specified by the supplier**



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**ANNEXURE - VII : CLEANING TECHNIQUE**

<b>DESCRIPTION</b>		
( To be specified by the supplier, if any variation)		
Mode of machine cleaning	:	Manual
Use of Lubricants	:	*
All contact parts should be easily dismantled and cleanable.		

**\* To be specified by the supplier**



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### **ANNEXURE - VIII : PHYSICAL DETAILS**

<b>DESCRIPTION</b>		
(To be specified by the supplier, if any variation)		
Dimension (In mm)	:	*
Floor Space (In mm)	:	*
Net Weight (In Kgs.)	:	*
Type of Packing	:	*
Case Dimension (In mm)	:	*
Gross Weight (In Kgs.)	:	*
Foundation details (If required)	:	*

**\* To be specified by the supplier**



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### **ANNEXURE - IX : LIST OF ANCILLARY / ACCESSORIES / OPTIONAL ITEMS**

#### **DESCRIPTION**

( To be specified by the supplier, if any variation)

#### **Vendors should provide the following with estimate**

- Recommended Spares list
- *List of Bought out components if any.*
- *Any other ancillary or accessories required*
- *Optional items -if any*
- *Any other items which is required but not mentioned should be informed.*

All items that is required for successful commission and working of machine should be included in scope of supply. \*

**\* To be specified by the supplier**



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**ANNEXURE - x : TRAINING REQUIREMENT**

Training to all concern of KSDPL, Kerala for Installation, Operation, Maintenance and Cleaning of Automatic Vertical Vial Ophthalmic Sticker Labeling Machine protocol should be provided by vendor.



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: 0477-258262**ANNEXURE - XI : DOCUMENTATION**

List of all Documents to be supplied along with equipment [AS APPLICABLE]

Sr. No.	Document to be supplied	Qty	Remarks
1	Design and operational qualification	2 sets	
2	SAT/FAT procedures	2 sets	
3	Operation manual	2 sets	
4	Maintenance manual	2 sets	
5	Spare parts manual	2 sets	
6	All engineering drawings	2 sets	
7	List of instruments	2 sets	
8	Calibration certificates	2 sets	
9	Warranty / Guarantee	2 sets	
10	List of all components with referencing	2 sets	
11	Civil foundation drawings	2 sets	
12	Pre installation requirements	2 sets	
13	Installation requirements	2 sets	
14	Installation manual	2 sets	
15	Technical literature, data sheets and equipment catalogues	2 sets	
16	DQ, IQ, PQ documents.	2 sets	
17	Calibration Report of all sensors, controllers, PLC, transmitters, indicators etc.	2 sets	
18	Test Certificates of all material of construction	2 sets	
19	Test Certificates of the software used in machine control / monitoring system.	2 sets	

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### **ANNEXURE - XII : TERMS AND CONDITIONS**

Delivery Period	:	<b>As per tender</b>
Payment Terms	:	<b>As per tender</b>
Packaging and Forwarding	:	<b>As per tender</b>
GST	:	<b>As per actuals</b>
Unloading and placing of machine at particular position at site	:	<u>By vendor or to be arranged by the vendor at site</u>
Installation and Commissioning	:	By vendor
<b>Submission of documents and drawings</b>		
Response to URS and submission of quotation	:	Within 1 week
Submission of detail functional design specification and schematic drawings	:	Within a week after order finalization
Submission of FAT / SAT specification	:	2 weeks before FAT
Submission of IQ AND OQ documents	:	With equipment delivery
Drawings / diagrams	:	Within one week of receiving PO
The supplier should notify customer 2 weeks in advance of the beginning of FAT		
Catalogue, Equipment drawing, List of clients and year of establishment to be submitted alongwith technical bid.		
<i>Any other terms, not mentioned above, also to be specified.</i>		

**\* To be specified by the supplier**



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### **ANNEXURE - XIII : ABBREVIATION**

1.	URS	:	User Requirement Specification.
2.	KSDPL	:	Kerala State Drugs & Pharmaceuticals Ltd.
3.	DQ	:	Design Qualification
4.	IQ	:	Installation Qualification
5.	OQ	:	Operational Qualification
6.	PQ	:	Performance Qualification
7.	SS	:	Stainless Steel
8.	RHS	:	Right Hand Side
9.	MOC	:	Material of Construction
10.	KW	:	Kilo Watt
11.	HP	:	Horse Power
12.	RPM	:	Rotation Per Minute
13.	FLP	:	Flame Proof
14.	cGMP	:	Current Goods Manufacturing Practices
15.	O&M	:	Operation and Maintenance
16.	GA	:	General Arrangement
17.	SLD	:	Single Line Diagram
18.	HOD	:	Head of Department
19.	QA	:	Quality Analysis
20.	MRP	:	Maximum Retail Price
21.	NMT	:	Not more than
22.	VFD	:	Variable frequency drive

**Any other details, not mentioned in Annexure I to XII, to be specified in the quotation/specification by the vendor.**



### **CONSULTANT : M/S. KNACK TECHNOCRATS**

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Website : [www.ksdpltd.com](http://www.ksdpltd.com)fax : 0477-258162  
: 0477-258262Supplier's Copy**USER REQUIREMENT SPECIFICATION**

<b>Name of the Company</b>	:	
<b>Contact Person</b>	:	
<b>Address</b>	:	
<b>Contact Details</b>	:	
<b>Department</b>	:	<i>SVP (Vial &amp; OPhtahmic) Packing (Ground Floor)</i>
<b>Equipment and Code No.</b>	:	<b>SS 304 Packing Conveyor</b>  <b>(After labelling of Vial &amp; Ophthalmic)</b>  Length : 12 feet long
<b>Scope</b>	:	<i>Supply, Installation and commission of packing conveyor for vial &amp; Ophthalmic bottles containers, at site of M/s. KSDPL-Kerala for LVP packing section at ground floor.</i>
<b>Ref. No.</b>	:	
<b>Date</b>	:	
<b>Enclosures</b>	:	
<b>Qty.</b>	:	<b>2 nos.</b>

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### **PACKING CONVEYOR**

#### **ANNEXURE - I : BASIC DETAILS OF THE MACHINE**

<b>DESCRIPTION</b>	
(To be specified by the supplier, if any variation)	
Machine	: Packing Conveyor Belt (To be connected after labelling machine)
Model	: <b>GMP</b>
Conveyor Length	: 12 feet long (3500 mm)
Conveyor Width	: 300 mm
Width of conveyor table	: 900 mm including 300 mm conveyor belt
Type of Belt	: Endless belt
Speed	: Variable speed (VFD)
Operating height	: 875 mm ( $\pm$ 50 mm )
Stand with wheel	: With castor wheel to remove when not in use.
Qty.	: 2 nos.(One for vial and other for ophthalmic)

**\* To be specified by the supplier**

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<b>DESCRIPTION</b>		
(To be specified by the supplier, if any variation)		
<b>MOC</b>		
Main Body And Top Plate	:	SS 304
Pipe Structure & Platform	:	SS 304
Conveyor Side Channel	:	SS 304 sheet of 16 swg
Conveyor material	:	Endless Nylon rubberized sandwich belt
General Nut & Bolts	:	SS 304
Working Area Environment	:	Classified area
Finish for side tables	:	Matt Finish *
The equipment should be smooth finished without any sharp edges and crevices		

**\* To be specified by the supplier****CONSULTANT : M/S. KNACK TECHNOCRATS**

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### **ANNEXURE - III : OPERATIONAL FEATURES**

<b>DESCRIPTION</b> ( To be specified by the supplier, if any variation)	
Features	
Adjustable bolt to be provided for belt tightening	
Adjustable height of conveyor belt, to align with other machine.	
Specially designed hard chrome roller with self-aligned bearing	
Tension mechanism for adjusting the belt tension	
Stopper arrangement at the end of conveyor	
Utility connections	: Any utility required to this machine will be connected by supplier from the point arranged by vendor at site.

**\* To be specified by the supplier**

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### ANNEXURE - IV : ELECTRICAL DETAILS

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Standard Operating Frequency	: 50 Hz
Standard Operating Voltage	: 230 V
VFD	: *
Motor Details	: <b>AC variable drive</b>
Gear Box Details	: *
VFD Details	: *
<b>Starter</b>	: DOL
<b>Major Cabling details</b>	
Cable size required for input of machine as per connected load	: *
Starter details (if provided)	: Star/Delta
Earthing requirement	: To be provided with machine by vendor
An Isolator Circuit breaker	: To be supplied with machine at power supply in point of appropriate capacity by vendor. *
Cables and connection from machine panel, or switch or starter should be in scope of vendors, client will arrange only incoming cable to this machine's panel. *	

\* To be specified by the supplier

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**ANNEXURE - V : PHYSICAL DETAILS**

<b>DESCRIPTION</b>		
(To be specified by the supplier, if any variation)		
Dimension (In mm)	:	*
Floor Space	:	*
Net Weight (In Kgs.)	:	*
Type of Packing	:	*
Case Dimension (In mm)	:	*
Gross Weight (In Kgs.)	:	*
Foundation Details (If required)	:	*

**\* To be specified by the supplier**

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### **ANNEXURE - VI : LIST OF ANCILLARY / ACCESSORIES / OPTIONAL ITEMS**

#### **DESCRIPTION**

( To be specified by the supplier, if any variation)

#### **Vendors should provide the following with estimate**

- Recommended Spares list
- *List of Bought out components if any.*
- *Any other ancillary or accessories required*
- *Optional items -if any*
- *Any other items which is required but not mentioned should be informed.*

All items that is required for successful commission and working of machine should be included in scope of supply.

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**ANNEXURE - VII : DOCUMENTATION**

List of all Documents to be supplied along with equipment [AS APPLICABLE]

Sr. No.	Document to be supplied	Qty	Remarks
1	Design and operational qualification	2 sets	
2	SAT/FAT procedures	2 sets	
3	Operation manual	2 sets	
4	Maintenance manual	2 sets	
5	Spare parts manual	2 sets	
6	All engineering drawings	2 sets	
7	List of instruments	2 sets	
8	Calibration certificates	2 sets	
9	Warranty / Guarantee	2 sets	
10	List of all components with referencing	2 sets	
11	Civil foundation drawings	2 sets	
12	Pre installation requirements	2 sets	
13	Installation requirements	2 sets	
14	Installation manual	2 sets	
15	Technical literature, data sheets and equipment catalogues	2 sets	
16	IQ, OQ, DQ and PQ documents.	2 sets	

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### **ANNEXURE - VIII : TERMS AND CONDITIONS**

Delivery Period	:	<b>as per tender</b>
Payment Terms	:	<b>as per tender</b>
Packaging and Forwarding	:	<b>as per tender</b>
GST	:	<b>as per actuals</b>
Unloading and placing of machine at particular position at site	:	<u>By vendor or to be arranged by the vendor at site</u>
Installation and Commissioning	:	By vendor
<b>Submission of documents and drawings</b>		
Response to URS and submission of quotation	:	Within 1 week
Submission of detail functional design specification and schematic drawings	:	Within a week after order finalization
Submission of FAT/SAT specification	:	2 weeks before FAT
Submission of DQ, IQ, OQ, PQ documents	:	With equipment delivery
Drawings / Diagrams	:	Within one week of receiving purchase order
The supplier should notify the end user 2 weeks in advance of the beginning of FAT		
Catalogue, Equipment drawing, List of clients and year of establishment to be submitted alongwith technical bid		
<i>Any other terms, not mentioned above, also to be specified.</i>		

**\* To be specified by the supplier**

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## **kerala state drugs and pharmaceuticals ltd.**

a government of kerala enterprise

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### **ANNEXURE - IX : ABBREVIATION**

1.	URS	:	User Requirement Specification.
2.	KSDPL	:	Kerala State Drugs & Pharmaceuticals Ltd.
3.	DQ	:	Design Qualification
4.	IQ	:	Installation Qualification
5.	OQ	:	Operational Qualification
6.	PQ	:	Performance Qualification
7.	SS	:	Stainless Steel
8.	RHS	:	Right Hand Side
9.	MOC	:	Material of Construction
10.	KW	:	Kilo Watt
11.	HP	:	Horse Power
12.	RPM	:	Rotation Per Minute
13.	FLP	:	Flame Proof
14.	cGMP	:	Current Goods Manufacturing Practices
15.	O&M	:	Operation and Maintenance
16.	GA	:	General Arrangement
17.	SLD	:	Single Line Diagram
18.	HOD	:	Head of Department
19.	QA	:	Quality Analysis
20.	NMT	:	Not more than
21.	VFD	:	Variable frequency drive

***Any other details, not mentioned in Annexure I to VIII, to be specified in the quotation/specification by the vendor.***

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