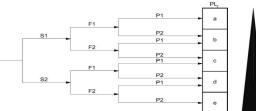
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Det	
-	Bector Automation RML India Pvt. Ltd.

			PROTOCOL APPROVAL				
PREPARED BY			DESIGNATION		SIGNAT	TURE AND DATE	
Sahana I H			Automation				
REVIEWED BY BRML			DESIGNATION		SIGNA	TURE AND DATE	_
Vaibhav Bhosale			Automation				
Pabitra Hazra			Design				1
REVIEWED BY STRIDE	S PHARMA		DESIGNATION		SIGNA	TURE AND DATE	
APPROVED BY STRIDE	ES PHARMA		DESIGNATION		SIGNA	TURE AND DATE	Key 1 sta co L lov H hig PL, rea
Assessment reference:	16049	Number of operatives:	1	LO (Li 0.033	kelihood of Occurrence Almost impossible		FE (
Type of machine:	Sachet Cartoning Machine	Number of shifts per week:		1	Highly unlikely Unlikely	Only in extreme circumstances Though conceivable But could occur	1 1.5
Machine location:	Bangalore	Usage (hours per week):		2	Possible	But unusual	2.5
Machine description:	Sachet Cartoning Machine	Operating manuals:	Supplied	5	Even chance	Could happen	4
Machine manufacturer:	BAR	SOP's	As required, per post assembly Hazop.	8	Probable	Not surprising	5
Machine model:	p780	Operatives' training record:		10	Likely	To be expected	
Machine serial number:	p780-16049-01-2022	Warning signs:	As required, per post assembly Hazop.	15	Certain	No doubt	1
Modifications from 'as- supplied':	None	Raw materials:		DPH (Degree of Possible Har	m)	NP
Energy sources:	Electrical Power and Compressed Air	Maintenance manual:	Supplied	0.1	Scratch or bruise		1
Energy source ratings:	Electrical - 3phase, 415V Pneumatic - Air @6bar.	Maintenance training record:	Operators & maintenance to be trained upon installation	0.5	Laceration or mild ill		2 4
Safety measures:	(eg. PLd safety architecture)	Access by untrained visitors:	Prohibited	2 4 6	Break of major bone	e or minor illness (temporary) e or major illness (temporary) /e, hearing (permanent)	4 8 12
Assessment carried out by:	OB, RB			10	Loss of two limbs or		12
Assessment date:	23-08-2022			15	Fatality		1
Assessment reviewed by	/:						
Assessment review date	:						
Version:	1.0						

RML Assumptions: Keywords:

Machine has no electronic guarding at all at initial assessment, frame is present. See "Example Keywords" sheet for further keywords

							LO	Initial assessment							Residual Risk Action					
r	Assembl	oly Machine Lo	ocation	Type of Hazard	Potential consequences	Comments		FE	DPH	NP HF	RN Ris	isk level	Action required	LO	FE DPI	H NP		HRN	Risk level	Required
				Radiation hazards (Optical radiation (infrared, visible high intensity lights))	acute radiation syndrome ("radiation sickness")	Hazards - Damage to eyes Why is the hazard there - Continously Eye contact with the camera lights What drives the hazard - Camera Light. How could harm be caused - Operator directly contact with camera . Why would the hazard - Camera Light contact with camera . Why would the hazard court - Operator intervention or inspection around the conveyor Potential occurrence of hazard - Possible Possible Harm - acute nadistion syndrome Possible Harm - acute nadistion syndrome	2	4	2	1 1	5 Low, s	, significant	Operator / Maintenance Staff Awareness Warning Signs	2 4	1 2	1		16	Low, significant	Operator / Maintenance Staff Awareness and Training
	Camera / Scanner A	Assembly Camera / Sca	anner Assembly	Electric Shock/Fire Hazard	1. Sericus injury or death may occur. 2.If Camera fails, the Robot will not recognize the Sachets	Hazards - Electric Shock Why is the hazard there - Use of Unapproved Power Supplies What drives the hazard - Camera@Camera. How could harm be caused - Operator directly contact with camera . Powerfail occurrence of hazard - unlikely Possible harm -Serious injury or death may occur.	1.5	1	0.5	1 1	6 Low, s	, significant	Maintain Regular Maintenance	1.5	1 0.	5	1	16	Low, significant	Maintain Regular Maintenance



ting point for evaluation of safety function's tribution to risk reduction contribution to risk reduction i contribution to risk reduction ired performance level

- Risk parameters:

 S
 sevenity of injury

 S1 slight (normally reversible injury)

 S2 serious (normally inversible injury)

 S4 serious (normally inversible injury)

 F1 seidom-to-less-often and/or exposure time is short

 F2 frequency-and/or exposure time is short

 F2 frequency-and/or exposure time is short

 F2 frequency-and/or exposure time is long

 P possibility of evolding hazard or limiting harm

 P1 possibility of evolding hazard or limiting harm

 P2 scarcely possible



HRN	Risk	
0-5	Negligible	
5-50	Low, significant	
50-500	High	
Over 500	Unacceptable	
HRN = LO	x FE x DPH x N	P

N	umber of Persons at risk)
	1-2 persons
	3-7 persons
	8-15 persons
	16-50 persons
	50+ persons