



SYSTEMATIC OCCUPATIONAL HEALTH ENHANCEMENT LEVEL PROGRAMME (SOHELP)

Impact from SOHELP implementation



Nufarm

Grow a better tomorrow.

Mastra Industries Sdn.Bhd

Front View



Nufarm

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Company Background

Established in 1992, serving local and international markets for 25 years.

Nufarm Australia Limited subsidiary

Located at lot 6, Jalan Sultan Mohamed 5, Kawasan Perindustrian Bandar Sultan Suleiman ,42000, Port Klang

Total headcount is 150

Agro chemicals business, OEM, toll manufacturing & repacking for MNC .



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Impact from SOHELP Program.

Briefing outline

Previous practices focus more on accident /injuries prevention

Management focus more on Ergonomic & Noise

Morale of employee towards management increased

Reduction of health risk exposure at workplace.

Provide additional resources for SOHELP implementation.

Introduce Life Saving Rules (LSR)

Good record keeping

Corporate Image



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Previous practices focus more on accident /injuries prevention.

Emphasize more on safety hazards

Physical hazards

Housekeeping

Chemical handling

Management focus more on Ergonomic & Noise

Introduce ergonomic checklist

Upgrade equipments and tools to meet ergonomic requirements

Implement jobs rotation for line process

Conduct additional noise monitoring and mapping

Hearing conservation training

Established program for identifying equipment emitting high noise

Morale of employees towards management increased

Employee appreciate improvements on occupational health.

Reduce absenteeism

Gain respect from workers

Reduction of health risk exposure at workplace.

Proper handling and storage of chemical

Manual handling training

Improved work station ergonomic

Improved work process which reduced ergonomic hazard



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Provide additional resources for SOHELP implementation.

Allocate additional budget for training.

Special allocation for purchase of new equipments.



Introduce Life Saving Rules (LSR)

Introduce 7 Life Saving Rules(LSR)

All employees briefed and provided a booklet as reference.

Daily toolbox talk on LSR.

Staff who knowingly violates a Life Saving Rule will be subject to disciplinary action or termination of employment

A supervisor or manager who tolerates or instructs a staff member to break a Life Saving Rule will be subject to disciplinary action or termination of employment.



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Record keeping

Improved in record keeping after implementation of SOHELP program



Corporate Image

Gain confidence from business partners

Preferred working place



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Chemical- Improvements

Manual charging to vacuum charging system



BEFORE



AFTER

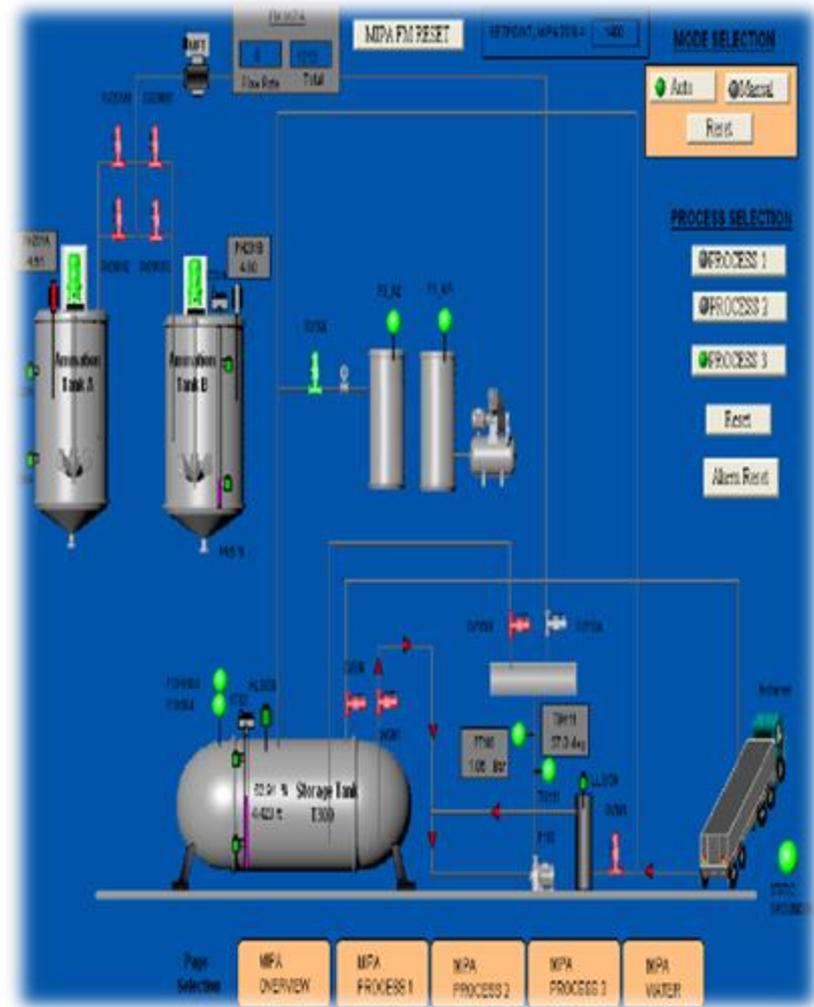
Chemical- Improvements



Automation of MIPA charging process



BEFORE



AFTER

Noise- Improvements

Annual audiometric test



PROFESSION CONSULTANTS IDH B22
 (SEKUT) - CLASSICAL RESULTS OF IMPAIRMENT

Company: NUFARM (INDONESIA) PTE LTD
 Name: Nufarm Indonesia
 No: 83453333 Apt: 25 City: Medan

Date Recieved: 25/05/2018
 Location: Medan

Operator: Rina Samsudin
 No: 22793110

Application: Ear, Noise
 No: 128
 Instrument: Model: 22793110 Calibration Date: 22/05/2018

Impairment: None
 Weight: 55 kg
 Height: 165 cm
 Age: 25
 Sex: Male

Need Ready: Yes No

Ear: Right Left

Frequency: 125, 250, 500, 1000, 2000, 4000, 8000 Hz

Right Ear: Normal Impaired

Left Ear: Normal Impaired

Right Ear Graph:

Left Ear Graph:

Frequency (Hz)	Right Ear (dB HL)	Left Ear (dB HL)
125	0	0
250	0	0
500	0	0
1000	0	0
2000	0	0
4000	0	0
8000	0	0

Signature: [Signature]
 Name: NUCIAH IRIYANI
 Title: Audiologist

Signature: [Signature]
 Name: NUCIAH IRIYANI
 Title: Audiologist

Reviewed & Approved By: [Signature]
 Title: [Signature]

Printed By: [Signature]

NOISE ASSESSMENT REPORT
 AGREED FOR ALL THE USES AND PURPOSES OF OCCUPATIONAL HEALTH AND SAFETY (OHS)
 NUFARM (INDONESIA) PTE LTD

Noise- Improvements

Acoustic insulation cover for noisy motor



BEFORE



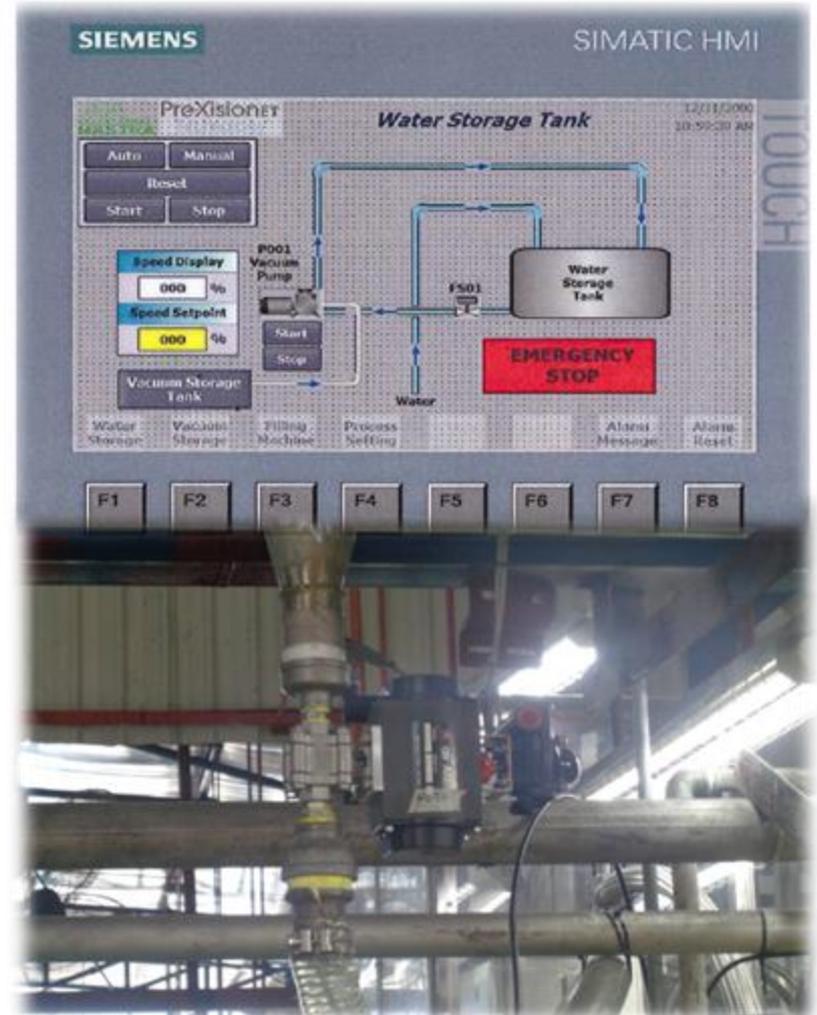
AFTER

Noise- Improvements

Upgrade pump to PLC system



BEFORE



AFTER

Ergonomic- Improvements

Assessment



Check point	Description	Page No.	Action			Action Taken	
			No	Yes	Priority	No	Yes
A. Materials Storage and Handling							
1	Clear and mark transport routes.	2	✓				
2	Keep aisles and corridors wide enough to allow two-way transport.	4		✓			
3	Make the surface of transport routes even, not slippery and without obstacles.	6	✓				
4	Provide with a small inclination of up to 5 to 6 per cent instead of small stairways or sudden height differences within the workplace.	6		✓			
5	Improve the layout of the work area so that the need to move materials is minimized.	10	✓				
6	Use carts, hand-trucks and other wheeled devices, or rollers, when moving materials.	12	✓				
7	Use mobile storage racks to avoid unnecessary loading and unloading.	14	✓				
8	Use multi-level shelves or racks near the work area in order to minimize manual transport of materials.	16	✓				
9	Use mechanical devices for lifting, lowering and moving heavy materials.	18	✓				
10	Reduce manual handling of materials by using conveyers, hoists and other mechanical means of transport.	20	✓				
11	Instead of carrying heavy weights, divide them into smaller lightweight packages, containers or trays.	22	✓				
12	Provide handholds, grips or good holding points for all packages and containers.	24		✓			
13	Eliminate or minimize height differences when materials are moved manually.	26	✓				
14	Feed and remove heavy materials horizontally by pushing and pulling them of raising and lowering them.	28	✓				
15	Eliminate tasks that require bending or twisting while handling materials.	30		✓			
16	Keep objects close to the body when carrying.	32	✓				
17	Raise and lower materials slowly in front of the body without or deep bending.	34	✓				
18	When carrying a load for more than a short distance, spread the load evenly across the shoulders to provide balance and reduce effort.	36	N/A				
19	Combine heavy lifting with physically lighter tasks to avoid injury and fatigue and to increase efficiency.	38	✓				
20	Provide conveniently placed waste containers.	40	✓				
21	Mark escape routes and keep them clear of obstacles.	42	✓				
B. Hand Tools							
22	Use special-purpose tools for repeated tasks.	46	✓				
23	Provide safe power tools and make sure that safety guards are used.	48	✓				
24	Use hanging tools for operations repeated in the same place.	50	✓				

SHAWNECK OPERATIONS
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Part II : Improvements Record

Improvement No.	Check Point No.	Picture / Sketch	
		BEFORE	AFTER
1	5		
		Remarks : The workers need to manually tighten the cap.	Remarks : Automation capping system introduced.
2	5		
		Remarks : Workers need to manually stacked each drums onto the pallets.	Remarks : Hoisting system introduced whereby manual lifting has been eliminated.
			
		Remark : Cartons were lifted and stacked manually.	Remark : Carton lifting machine has been installed to avoid the manual handling risk.

Ergonomic- Improvements

Spring Loaded table has been introduced to avoid bending and twisting.



BEFORE



AFTER

Ergonomic- Improvements



Carton lifter used to reduced manual lifting.



BEFORE



AFTER

Ergonomic- Improvements

Hoisting system introduced to avoid manual lifting



BEFORE



AFTER

Ergonomic- Improvements

Auto capping machine introduced



BEFORE



AFTER

Way Forward Improvements

Automation of liquid filling line

Current packing line

Future packing line



SOHELP Enhancement Suggestion

Sustainability for SOHELP program

Create more awareness among stake holders

Mentor mentee program



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The End

Thank You



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