

HABIB SUGAR MILLS LIMITED NAWABSHAH

Risks & Opportunities Assessment Sugar cane field (HSE, HLR & Food Safety)

	—нѕм—	Sugar cane field (HSE, HLR & Food Safety)							00			
Sr.No	Activities/ Processes	Hazard Type. Physical (P), Chemical (C), Biological (B), Food Safety (F) Environment (E), Human & Labor Rights (HLR)	Hazards	Risk Effect/ Risk	Existing Controls	Risk P	Evalu S	ation R	Additional Controls	Res	S	Risk R
		Р	Sharp edges of sampling tools	Minor Injuries	Use gloves, Inspected tools	2	2	4				
		Е	Dust exposure	Respiratory problems due to dust	Use face mask	2	2	4				
		Р	Slip/ Trip	Minor Injuries	Use rubber safety boots	1	2	2				
		E	Hot weather/ Heat stress	Dehydration	Safe drink frequent water, Use wide brim hat, rest shelter.	2	2	4				
		Р	Incompetent/ Untrained person	Input expenditure	Trained & experience worker	1	2	2				
1	Soil & water Testing	HLR	Harassment Employee turnover 1. Hiring of trained employees 2. Grievance mechanism proced	Hiring of trained employees Grievance mechanism procedure	1	2	2					
		HLR	Discrimination towords employees	Negative attitudes	Hiring of trained & merit based employees Grievance mechanism procedure	Use wide						
		HLR	Child labor	Accidents / suffer education / illiteracy	Child labor (blow 18 years age) are strictly prohibited. Verification of age by CNIC. Human/ Labor Right Policy (SOP-0423)							
		Р	Unguarded rotary parts (Drives gears, motor belts)	Worker may entangled into rotatory parts. 1. Permanent disability. 2. Minor & major injury.	Loose cloths & kerchief are not allowed Safe guard of rotatory parts.	1	3	3				
		Е	Dust exposure	Respiratory problems due to dust	Use face mask	2	2	4				
2	Land Preparation (Rotavator, Chieseling,	Р	Collision of tractor	Minor and major Injuries Property loss	Valid license holder driver. Vehicle inspection. Banks man	2	2	4				
	Cultivator, Lazer Levelling, Ridge	E	Hot weather/ Heat stress	Dehydration	Drink frequent water, Use Wide Brim Hat, rest shelter.	2	2	4				
	Making)	Р	Fire due to equipment loose wiring	Fire and explosion	Ensure proper maintenance	r maintenance						
		E	High noise	Chronic effects ears, hearing loss.	Use of ear plugs to prevent from hearing loss, area to highlight with ear protection safety signage's.	2	2	4				

	T					Risk	Evalu	ation	 	Res	sidual I	Risk
Sr.No	Activities/ Processes	Hazard Type. Physical (P), Chemical (C), Biological (B), Food Safety (F) Environment (E), Human & Labor Rights (HLR)	Hazards	Risk Effect/ Risk	Existing Controls	P	s	R	Additional Controls	P	s	R
		Р	Sharp edges of ridger	Minor hand injury	Use hand Gloves & safety shoes	2	2	4				
	Land Preparation	HLR	Harassment	Employee turnover	Hiring of trained employees Grievance mechanism procedure	1	2	2				
2	(Rotavator, Chieseling, Cultivator, Lazer Levelling, Ridge	HLR	Discrimination towords employees	Negative attitudes	Hiring of trained & merit based employees Grievance mechanism procedure	1	2	2				
	Making)	HLR	3. Human/ Labor Right Policy (SOP- 0423) Sharp edges Minor hand injury Use hand Gloves & safety shoes	1								
	Seed Selection	P	Sharp edges	Minor hand injury	Use hand Gloves & safety shoes	2	2	4				
3		E	Standing crop dust	Respiratory problems due to dust	Use of Mask	2	2	4				
		Р	Incompetent person	Production loss	Trained & experience worker	1	2	2				
	Seed Treatment(Fungicid e)	C, E & F	Exposure of chemical	Skin irritation, eye irritation, respiratory problems Toxic to aquatic life.	MSDS COA Use PPEs	2	2	4				
		C, E & F	Hazardous waste (Chemical container)	Empty chemicals container, Hazardous waste effects on health (infections & diseases)	Training on chemical handling of staff. Allocate hazardous waste collection spot. Personal protective equipment for cleaning and handling.	2	2	4				
		P	Slip/ Trip	Minor Injuries	Use rubber safety boots	2	2	4				
4		HLR	Harassment	Employee turnover	Hiring of trained employees Grievance mechanism procedure	1	2	2				
		HLR	Discrimination towords employees	Negative attitudes	Hiring of trained & merit based employees Grievance mechanism procedure	1	2	2				
		HLR	Child labor	Accidents / suffer education / illiteracy	1. Child labor (blow 18 years age) are strictly prohibited. 2. Verification of age by CNIC. 3. Human/ Labor Right Policy (SOP-0423)	1	1	1				

						Risk	Evalu	ation		Res	sidual	Risk
Sr.No	Activities/ Processes	Hazard Type. Physical (P), Chemical (C), Biological (B), Food Safety (F) Environment (E), Human & Labor Rights (HLR)	Hazards	Risk Effect/ Risk	Existing Controls	Р	s	R	Additional Controls	P	s	R
	Sugarcane Plantation	E	Dust exposure	Respiratory problems due to dust	Use face mask	2	2	4				
		Р	Sharp edges of sickle/ Sugarcane leaf	Minor Injuries	Use PPEs	2	2	4				
		P	Incompetent labor	Production loss	Trained & experience worker	1	2	2				
		E	Hot weather/ Heat stress	Dehydration	Safe drink frequent water, Use wide brim hat, rest shelter.	2	2	4				
5		HLR	Harassment	Employee turnover	Hiring of trained employees Grievance mechanism procedure	1	2	2				
		HLR	Discrimination towords employees	Negative attitudes	Hiring of trained & merit based employees Grievance mechanism procedure	1	1 2	2				
		HLR	Child labor	Accidents / suffer education / illiteracy	Child labor (blow 18 years age) are strictly prohibited. Verification of age by CNIC. Human/ Labor Right Policy (SOP-0423)	1	1	1				
		E	Excessive water usage	Water scarcity. Contamination due to waterlogging in low-lying areas. Decreased aquatic biodiversity. Damage to aquatic ecosystems.	Drip irrigation. Maintain soil, tillage, soil testing, nutrient.	2	3	6	Tresh mulching. Regularly check for leaks in the irrigation system			
		P	Slip/ Trip	Minor Injuries	Use rubber safety boots	2	2	4				\Box
		B & P	Dog Biting	Tetanus, rabies, or sepsis.	Must have a stick	2	4	4				
6	Irrigation	E	Hot weather/ Heat stress	Dehydration	Safe drink frequent water, Use wide brim hat, rest shelter.	2	2	4				
6	Irrigation	HLR	Harassment	Employee turnover	Hiring of trained employees Grievance mechanism procedure	1	2	2				
		HLR	Discrimination towords employees	Negative attitudes	Hiring of trained & merit based employees Grievance mechanism procedure	1	2	2				
		HLR	Child labor	Accidents / suffer education / illiteracy	Child labor (blow 18 years age) are strictly prohibited. Verification of age by CNIC. Human/ Labor Right Policy (SOP-0423)	1	1	1				

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Sr.No	Activities/ Processes	Hazard Type. Physical (P), Chemical (C), Biological (B), Food Safety (F) Environment (E), Human & Labor Rights (HLR)	Hazards	Risk Effect/ Risk	Existing Controls	P	S	R	Additional Controls	P	s	R
		C, E & F	Exposure of chemical	Skin irritation, eye irritation, respiratory problems Toxic to aquatic life.	MSDS COA Use PPEs	2	2	4				
7	Weedicide Application	C & E	Hazardous waste (Chemical container)	Empty chemicals container, Hazardous waste effects on health (infections & diseases)	Training on chemical handling of staff. Allocate hazardous waste collection spot. Personal protective equipment for cleaning and handling.	2	2	4				
		E	Hot weather/ Heat stress	Dehydration	Safe drink frequent water, Use wide brim hat, rest shelter.	2	2	4				
8	Pesticide Application	C, E & F	Exposure of chemical / Use of banned pesticide	Skin irritation, eye irritation, respiratory problems Toxic to aquatic life.	MSDS COA Use PPEs Recommended dose application No use of banned pesticide	2	2	4				
		E	Hot weather/ Heat stress	Dehydration	Safe drink frequent water, Use wide brim hat, rest shelter.	2	2	4				
		C, E & F	Exposure of chemical	Skin irritation, eye irritation, respiratory problems Toxic to aquatic life.	MSDS COA Use PPEs	2	2	4				
9	Fertilizer Application	Hazardous waste (Chemical container) To a C & E Hazardous waste (Chemical container) C & E Hazardous waste effects on health (infections & diseases) health (infections & diseases) C & E 1. Training on chemical handling or staff. 2. Allocate hazardous waste collection spot. 3. Personal protective equipment of the properties of t	2. Allocate hazardous waste	2	2	4						
		E	Hot weather/ Heat stress	Dehydration	Safe drink frequent water, Use wide brim hat, rest shelter.	2	2	4				
		Р	Incompetent person	Capital Loss Production Loss	Trained & experience worker, Proper Supervision	2	2	4				
		E	Dust exposure	Respiratory problems due to dust	Use face mask	2	2	4				
10	Sugarcane Harvesting	Р	Sharp edges of sickle, Knife / Sugarcane leaf	Minor hand injury	Use hand gloves & safety shoes, Inspected tools	2	2	4				
		E	Hot weather/ Heat stress	Dehydration	Safe drink frequent water, use wide brim Hat, rest shelter.	2	2	4				
		B & P	Soil, roots and trash	Sugarcane may contaminate	Proper removal of trash removal of roots Proper handling to maintain cleaning of sugarcane	2	2	4				

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Sr.No	Activities/ Processes	Hazard Type. Physical (P), Chemical (C), Biological (B), Food Safety (F) Environment (E), Human & Labor Rights (HLR)	Hazards	Risk Effect/ Risk	Existing Controls	Р	s	R	Additional Controls	P	s	R
		HLR	Harassment	Employee turnover	Hiring of trained employees Grievance mechanism procedure	1	2	2				
10	Sugarcane Harvesting	HLR	Discrimination towords employees	Negative attitudes	Hiring of trained & merit based employees Grievance mechanism procedure	1	2	2				
		HLR	Child labor	Accidents / suffer education / illiteracy	Child labor (blow 18 years age) are strictly prohibited. Verification of age by CNIC. Human/ Labor Right Policy (SOP-0423)	1	1	1				
		E	Dust exposure	Respiratory problems due to dust	Use face mask	2	2	4				П
		Р	Fall of person from trolley height	dust of person from trolley height								
		Р	Sugarcane bundles collapse (Falling object)	Minor and major injury	Work at height training Proper supervision Do not hurry Safety signage's Ensure proper stacking/ tie off properly sugarcane bundles	2	2	4				
		Р	Exposure with metal tochain	Minor Injuries	Use safety gloves	1	3	3				
11	Loading of	Р	Slip/ Trip	Minor Injuries	Use rubber safety boots	2	2	4				
	Sugarcane	HLR	Harassment	Employee turnover	Hiring of trained employees Grievance mechanism procedure	1	2	2				
		HLR	Discrimination towords employees	Negative attitudes	Hiring of trained & merit based employees Grievance mechanism procedure	1	2	2				
		HLR	Child labor	Accidents / suffer education / illiteracy	Child labor (blow 18 years age) are strictly prohibited. Verification of age by CNIC. Human/ Labor Right Policy (SOP-0423)	1	1	1				

						Risk	Evalu	ation		Res	sidua	al Risk	
Sr.No	Activities/ Processes	Hazard Type. Physical (P), Chemical (C), Biological (B), Food Safety (F) Environment (E), Human & Labor Rights (HLR)	Hazards	Risk Effect/ Risk	Existing Controls	P	s	R	Additional Controls	Р	s	R	
		Р	Collision of Tractor	Minor and major Injuries Property loss	Valid license holder driver. Vehicle inspection. Banks man	2	2	4					
		E	Dust exposure	Respiratory problems due to dust	Use face mask	2	2	4				T	
		Р	Contact with overhead electric lines	Electrocution Property loss	Avoid over loading Competent driver Safe route	1 2 2							
		Р	Fire due to equipment loose	Fire and explosion	Ensure proper maintenance	1	2	2				T	٦
		Р	Tyre burst	Minor and major injury Property loss	Avoid over weight Check tyre pressure Inspection	2 2 4							
12	Sugarcane Transportation	Р	Trolley invert	Property loss	Avoid over weight safe route. License holder driver Proper Tractor & Trolley maintenance, follow speed limits	1	2	2					
	Transportation	E	Transportation	Air pollution / emissions	Proper maintenance of vehicle	2	2	4					
		E	High noise	Noise pollution / Chronic effects ears, hearing loss.	Proper maintenance of vehicle Use ear plugs	2	2	4					
		HLR	Harassment	Employee turnover	Hiring of trained employees Grievance mechanism procedure	1	2	2					
		HLR	Discrimination towords employees	Negative attitudes	Hiring of trained & merit based employees Grievance mechanism procedure	1	2	2					
		HLR	Child labor	Accidents / suffer education / illiteracy	Child labor (blow 18 years age) are strictly prohibited. Verification of age by CNIC. Human/ Labor Right Policy (SOP-0423)	1	1	1					

Sr.No						Risk	Evalu	ation		Res	idual	Risk
Sr.No	Activities/ Processes	Hazard Type. Physical (P), Chemical (C), Biological (B), Food Safety (F) Environment (E), Human & Labor Rights (HLR)	Hazards	Risk Effect/ Risk	Existing Controls	P	S	R	Additional Controls	P	S	R
		E	Dust exposure	Respiratory problems due to dust	Use face mask	2	2	4				
		Р	Smoking	Fire Property loss	No smoking area. Safety signage's Proper supervision	1	4	4				
		HLR	Harassment	Employee turnover	Hiring of trained employees Grievance mechanism procedure	1	2	2				
13	Trash Mulching	HLR	Discrimination towords employees	Negative attitudes	Hiring of trained & merit based employees Grievance mechanism procedure	1	1 2 2					
		HLR	Child labor	Accidents / suffer education / illiteracy	Child labor (blow 18 years age) are strictly prohibited. Verification of age by CNIC. Human/ Labor Right Policy (SOP-0423)	P S R 2 2 4 1 4 4 1 2 2 d ure 1 2 2 op & 2 2 4 op & 2 2 4 op & 2 2 4 ure 1 2 2 d ure 1 2 2						
		Р	Disputes	Abuse of language Minor injury	Ensure quality cane Top & trash free cane	2	2	4				
		Р	Political Issues	Road block, stop operations	Ensure quality cane Top & trash free cane	2	2	4				
		HLR	Harassment	Employee turnover	Hiring of trained employees Grievance mechanism procedure	1	2	2				
14	Cane Quality Inspection	spection employees employees	2									
		HLR	Child labor	Accidents / suffer education / illiteracy	Child labor (blow 18 years age) are strictly prohibited. Verification of age by CNIC. Human/ Labor Right Policy (SOP-0423)	1	1	1				

		Biological (B), Food Safety (F)				Risk	Evalu	ation		Res	idual	Risk		
Sr.No	Activities/ Processes		Hazards	Risk Effect/ Risk	Existing Controls	P	s	R	Additional Controls	P	S	R		
Re	eviewed On	13-01-2020		Food safety related risks and opportunities added										
Re	eviewed On	01-10-2022			2000:2018, PS 3733:2 (V-5.1) & Chain of cust				•	ons	ucro	י		
Dro	hahility V S	ovarity – Pick Pating		P: Probability										
_		everity = Risk Rating (3 to 4 = Medium) (1 to 2 = I		S: Severity										
(b t	o 9 = High) ((3 to 4 = iviedium) (1 to 2 = i	LOWJ	R: Risk										

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