

 HENGYI	Hengyi Industries Sdn Bhd 恒逸实业（文莱）有限公司			
	Template of Environmental Aspect Identification and Evaluation 环境因素识别和评价表模版			
	Template No.	HYBN-T7-08-3001-2025-3	User department 使用部门	

The following is the body of the template.
 下以为模版正文

 HENGYI		Hengyi Industries Sdn Bhd 恒逸实业（文莱）有限公司																	
		Environmental Aspect Identification and Evaluation 环境因素识别和评价表																	
		Record No.		HYBN-T6-10-3001-____-2025								User department使用部门		Utilities Department 公用工程部					
Identifying personnel 识别人员		Wen Jiancheng, Wang Liang, Zhang Haoran, Liang Bin, Zhang Yunbo, Yu Yapeng, Deng Wentao, Li Guangyuan, Lü Yingqiang and team members 温建成、王亮、张浩然、梁斌、张云波、于亚鹏、邓文涛、李光远、吕应强及班组人员										Date 日期		2025.4.25					
NO 序号	Product/activity/service 产品/活动/服务	EA 环境因素	Component 物质组分	Tense 时态	Status 状态	Influence type 影响类型	Initial risk 初始风险				SEA yes/no 重要因素判断	Measures to reduce and control risk 消减及控制措施	Residual risk 剩余风险						
							S	L	R	Risk level 风险等级			S	L	R	Risk level 风险等级			
1	Operation of the machine pump 机泵的运行	Consumption of electricity 电的消耗	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否								
		Generation of waste lubricating oil 废润滑油的产生	Oil product 油品	Future 将来	Abnormal 异常	Hazardous waste pollution 危险废物污染	3	3	9	III	Y 是	1. Prepare the equipment to collect the waste lubricating oil before maintenance. 检修前准备好器具收集废润滑油。 2. Unified collection and disposal. 统一收集处置。 3. Prevent contamination caused by leakage. 防止泄漏造成污染。	2	2	4	II			
		Water consumption 水的消耗	Water 水	Now 现在	Normal 正常	Resource consumption 资源消耗	1	2	2	I	N 否								
		Noise emission 噪音的排放	Noise 噪声	Now 现在	Normal 正常	Noise pollution 噪音污染	1	2	2	I	N 否								
2	Operation of circulating water cooling tower	Consumption of electricity 电的消耗	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否								

	循环水冷却塔的运行	Generation of waste lubricating oil 废润滑油的产生	Oil product 油品	Now 现在	Normal 正常	Resource consumption 资源消耗	3	3	9	III	Y 是	1. Prepare the equipment to collect the waste lubricating oil before maintenance. 检修前准备好器具收集废润滑油。 2. Unified collection and disposal. 统一收集处置。 3. Prevent contamination caused by leakage. 防止泄漏造成污染。	2	2	4	II
		Water consumption 水的消耗	water 水	Now 现在	Normal 正常	Resource consumption 资源消耗	1	2	2	I	N 否					
		Noise emission 噪音的排放	Noise 噪声	Now 现在	Normal 正常	Noise pollution 噪音污染	1	2	2	I	N 否					
3	Circulating water monitors the operation of heat exchangers 循环水监测换热器的运行	Steam consumption 蒸汽的消耗	Steam 蒸汽	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否					
4	Use, handling and storage of chemical dosing 药剂的使用、装卸、储存	Leakage of liquid chemicals during unloading 卸车时液体药剂的泄漏	Chemical dosing 药剂	Future 将来	Urgent 紧急	Water pollution 水体污染	2	2	4	II	N 否					
		Pungent gas during dosing 投加时产生刺鼻性气体	Chemical dosing 药剂	Now 现在	Normal 正常	Air pollution 大气污染	2	2	4	II	N 否					
		Leakage of the agent during dosing 药剂投加时散漏	Chemical dosing 药剂	Future 将来	Urgent 紧急	Water pollution 水体污染	2	2	4	II	N 否					
		Leakage of storage tank 储罐的泄漏	Chemical dosing 药剂	Future 将来	Urgent 紧急	Water pollution 水体污染 Air pollution 大气污染	2	3	6	II	N 否					
5	filter backwash 过滤反洗	Sewage discharge 污水排放	Saline sewage	Now 现在	Normal 正常	Water pollution 水体污染	5	2	10	V	Y 是	The wastewater is collected by gravity	1	1	1	I

			含盐污水									flow into the sewage lift tank and then pumped up and sent to the source sewage regulating tank.通过重力流收集至污水提升池，经泵提升送至源头污水调节罐。				
6	Operation of Wastewater Conditioning Tank 含油/含盐污水调节罐的运行	Electricity consumption 电的消耗	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否					
		VOC, odor gas emission VOC、恶臭气体的排放	Exhaust gas 废气	Now 现在	Normal 正常	Air pollution 大气污染	2	3	6	II	N 否					
7	A/O biochemical operation A/O 生化的运行	Use of electricity 电的使用	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否					
		Use of chemical dosing 药剂的使用	Chemical dosing 药剂	Now 现在	Normal 正常	Resource consumption 资源消耗	2	2	4	II	N 否					
		Oily/Salty Wastewater Discharge 含油/含盐污水排放	Waste water 污水	Future 将来	Abnormal 异常	Water pollution 水体污染	5	2	10	III	Y 是	1. The online analytical instrument continuously monitors the quality indicators of the effluent; when abnormal data is detected, it issues an alert and prompts manual intervention to revert the effluent discharge process to the regulation tank and stop the effluent discharge; the cause is identified and eliminated.;在线分析仪表持续监测外	2	3	6	II

												排水质指标；当发现数据异常时，预警并人工干预将外排流程改回调节罐停止外排；查找并消除原因；2. On-site sampling in each shift, comparison of laboratory analysis data with online analysis data, and prediction in advance;每班现场取样，将化验分析数据与在线分析数据进行比对，提前预判；3. If the sewage field fluctuates greatly due to the abnormal sewage discharge of the upstream device, it is necessary to report to the HSE department in time to find and eliminate the source of the abnormal sewage discharge, and do a good job in the water quality adjustment and treatment of the received part of the sewage field. Source monitoring,				
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												abnormal reporting; timely adjustments to ensure that the quality of external drainage meets the standards.如由于上游装置异常排污引起污水场大幅波动, 需及时汇报 HSE 部要求进行异常排污源头查找和消除, 做好污水场内部已经接收部分的水质调节和处理。源头监控, 异常汇报; 及时调整, 确保外排水质达标。				
		VOC, odor gas emission VOC、恶臭气体的排放	Waste gas 废气	Future 将来	Abnormal 异常	Air pollution 大气污染	2	2	4	II	N 否					
8	Operation of centrifugal blower 含盐/含油离心鼓风机的运行	Electricity consumption 电的消耗	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否					
		Noise emission 噪音的排放	Noise 噪声	Now 现在	Normal 正常	Noise pollution 噪声污染	2	2	4	II	N 否					
		Water consumption 水的消耗	Water 水	Now 现在	Normal 正常	Resource consumption 资源消耗	1	2	2	I	N 否					
9	Operation of sludge dewatering machine 污泥离心脱水机的运行	Electricity consumption 电的消耗	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否					
		Noise emission 噪音的排放	Noise 噪声	Now 现在	Normal 正常	Noise pollution 噪声污染	1	2	2	I	N 否					
		Use of chemical dosing 药剂的使用	Chemical dosing 药剂	Now 现在	Normal 正常	Resource consumption 资源消耗	2	2	4	II	N 否					
		Water consumption	Water	Now	Normal	Resource consumption	1	2	2	I	N 否					

		水的消耗	水	现在	正常	资源消耗												
		Consumption of lubricating oil and grease/grease waste production 润滑油、脂的消耗/废油脂产生	Oil product 油品	Future 将来	Normal 正常	Hazardous waste pollution 危险废物污染	3	3	9	III	Y 是	1. Prepare the equipment to collect the waste lubricating oil before maintenance. 检修前准备好器具收集废润滑油。 2. Unified collection and disposal. 统一收集处置。 3. Prevent contamination caused by leakage. 防止泄漏造成污染。	2	2	4	II		
10	Operation of Soda Residue BAF 碱渣 BAF 的运行	Use of non-purified air 非净化风的使用	Instrumen t air 工厂风	Now 现在	Normal 正常	Resource consumption 资源消耗	2	1	2	I	N 否							
		Generation of backwash wastewater 反洗废水的产生	Wastewat er 废水	Now 现在	Normal 正常	Water pollution 水体污染	2	2	4	II	N 否							
11	Operation of exhaust gas treatment facilities 废气处理设施的运行	Emission of treated exhaust gas 处理后废气排放	Waste gas 废气	Future 将来	Abnormal 异常	Air pollution 大气污染	3	4	12	III	Y 是	1. Regularly maintain the exhaust gas treatment unit equipment, and ensure that the facilities are in good condition;定期维护废气处理单元设备, 设施确保运行完好; 2. Strengthen inspections, find abnormalities, and deal with them in a timely manner;加强巡检, 发现异常, 及时处理; 3. Strictly control the process indicators, and deal with abnormalities in time;严格控制工艺指标, 发现异常及时处理; 4. Regular laboratory	2	2	6	II		

												analysis of samples is taken to ensure that the exhaust gas meets the standard.定期取样化验室分析，确保外排废气达标。				
		Generation of waste liquid 废液的产生	Waste liquid 废液	Now 现在	Normal 正常	Water pollution 水体污染	2	2	4	II	N 否					
12	Operation of advanced exhaust gas treatment 废气深度处理的运行	Consumption of steam 蒸汽的消耗	Steam 蒸汽	Now 现在	Normal 正常	Energy consumption 能源消耗	2	1	2	I	N 否					
		Exhaust gas generation during desorption 脱附时产生废气	Waste gas 废气	Now 现在	Normal 正常	Gas pollution 气体污染	2	1	2	I	N 否					
13	Disposal of oil sludge and scum 油泥、浮渣处置	Hazardous waste discharge 危废排放	Oil sludge and scum (water content 85%) 油泥、浮渣 (含水率 85%)	Now 现在	Normal 正常	Hazardous waste pollution 危险废物污染	5	2	10	V	Y 是	1.According to the design requirements, the waste is sent to the coal-fired power plant boiler for incineration. 按照设计要求送煤电站锅炉焚烧处理。 2.Establish a Waste Management Ledger and update it in a timely manner.建立废弃物管理台账，及时更新。	5	1	5	V
14	Disposal of activated sludge 活性污泥处置	Hazardous waste discharge 危废排放	Activated sludge (water content 85%) 活性污泥 (含水率 85%)	Now 现在	Normal 正常	Hazardous waste pollution 危险废物污染	5	2	10	V	Y 是	1.According to the design requirements, the waste is sent to the coal-fired power plant boiler for incineration. 按照设计要求送煤电站锅炉焚烧处理。 2.Establish a Waste Management Ledger and update it in a timely manner.建立废弃物管理台账，及时更新。	5	1	5	V

15	Operation of hot water buffer tank 热水缓冲罐的运行	Consumption of deaerated water 除氧水的消耗	Water 水	Now 现在	Normal 正常	Resource consumption 资源消耗	1	2	2	I	N 否					
		Nitrogen consumption 氮气的消耗	Nitrogen 氮气	Now 现在	Normal 正常	Resource consumption 资源消耗	2	1	2	I	N 否					
16	Operation of hot water station heaters 热水站加热器的运行	Steam consumption 蒸汽的消耗	Steam 蒸汽	Now 现在	Normal 正常	Energy consumption 能源消耗	2	1	2	I	N 否					
		Generation of steam condensate 蒸汽凝液的产生	Water 水	Now 现在	Normal 正常	Resource consumption 资源消耗	1	2	2	I	N 否					
17	Operation of fire-fighting diesel pumps 消防柴油泵的运行	Diesel fuel consumption 柴油的消耗	Diesel oil 柴油	Now 现在	Normal 正常	Resource consumption 资源消耗	2	3	6	II	N 否					
		Diesel exhaust emissions 柴油机尾气的排放	CO ₂ / flue gas CO ₂ /烟气	Now 现在	Normal 正常	Gas pollution 气体污染	2	2	4	II	N 否					
		Noise generation 噪音的产生	Noise 噪声	Now 现在	Normal 正常	Noise pollution 噪音污染	1	2	2	I	N 否					
18	Rainwater monitoring pool operation and drainage 雨水监控池运行及外排	Solid waste pollution 固废污染	Sludge 污泥/细沙	Now 现在	Normal 正常	General solid waste pollution 一般固废污染	2	3	6	II	N 否					
		Rainwater drainage 雨水外排	Polluted water 污染水	Future 将来	Abnormal 异常	Water pollution 水体污染	5	2	10	III	Y 是	1.Regularly maintain online monitoring instruments to ensure the normal operation of the equipment and the accuracy of continuous analysis data; 定期维护在线监测仪表, 确保设备运行正常, 连续分析数据准确; 2.Regular inspections, when abnormal rainwater is found, deal with it and report it in time;定时巡检, 发现雨水异常时, 及时处理、汇报; 3.When rainwater pollution from the	2	4	8	II

												upstream is found, the emergency response procedure will be started immediately; through the wall plate valve isolation, the accident corridor and the accident pool will be recycled to avoid the expansion of the situation. 当发现上游来雨水污染时，立即启动应急响应程序；通过壁板阀隔离，事故廊道、事故池进行回收，避免事态扩大。				
19	Garbage cleaning on grille in rainwater channel 雨水排水沟中格栅上垃圾清理	Garbage collection 垃圾收集	Domestic garbage and other miscellaneous substances such as weeds and grass clippings 生活垃圾及杂草等杂物	Now 现在	Normal 正常	General solid waste pollution 一般固废污染	2	2	4	II	N 否					
20	The use of air separation compressors 空分压缩机的使用	Electricity consumption 电的消耗	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否					
		Lubricant consumption 润滑油的消耗	Oil product 油品	Now 现在	Normal 正常	Resource consumption 资源消耗	2	2	4	II	N 否					
		Water consumption 水的消耗	Water 水	Now 现在	Normal 正常	Resource consumption 资源消耗	1	2	2	I	N 否					
		Gas consumption 空气的消耗	Compressed air 压缩空气	Now 现在	Normal 正常	Resource consumption 资源消耗	2	1	2	I	N 否					
		Noise emission	Noise	Now	Normal	Noise pollution	2	2	4	II	N 否					

		噪音的排放	噪声	现在	正常	噪音污染													
21	Lithium Bromide Refrigerator in Refrigeration Station 制冷站溴化锂制冷机	Refrigerant leakage 冷媒泄漏	Lithium bromide 溴化锂	Future 将来	Urgent 紧急	Gas pollution 气体污染	2	3	6	II	N 否								
		Resource consumption 资源消耗	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否								
		Refrigerant contamination 冷媒污染	Lithium bromide 溴化锂	Future 将来	Urgent 紧急	Water pollution 水体污染	2	3	6	II	N 否								
22	Operation of water cooling tower and air cooling tower in air separation area 空分区域水冷塔、空冷塔的运行	Water consumption 水消耗	Water 水	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否								
		Consumption of packing 填料的消耗	polypropylene pall ring 聚丙烯鲍尔环	Now 现在	Normal 正常	General solid waste pollution 一般固废污染	2	3	6	II	N 否								
23	Screw refrigerator 螺杆式冷冻机	Water contamination 水体污染	Water 水	Now 现在	Normal 正常	Water pollution 水体污染	2	2	4	II	N 否								
		Electricity consumption 电的消耗	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否								
24	Operation of the dryer 干燥器的运行	Desiccant consumption 干燥剂的消耗	Desiccant 干燥剂	Now 现在	Normal 正常	Resource consumption 资源消耗	2	3	6	II	N 否								
		Generation of exhaust desiccant 废弃干燥剂的产生	Desiccant 干燥剂	Future 将来	Abnormal 异常	General solid waste pollution 一般固废污染	2	3	6	II	N 否								
		Electricity consumption 电的消耗	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否								
25	Operation of molecular sieves 分子筛的运行	Consumption of sorbent 吸附剂的消耗	Adsorbent 吸附剂	Now 现在	Normal 正常	Resource consumption 资源消耗	2	3	6	II	N 否								
		Noise emission 噪音的排放	Noise 噪声	Now 现在	Normal 正常	Noise pollution 噪音污染	1	2	2	I	N 否								
		Exhaust adsorbent generation 废弃吸附剂的产生	Adsorbent 吸附剂	Now 现在	Normal 正常	General solid waste pollution 一般固废污染	2	3	6	II	N 否								

		Noise emission 噪音的排放	Noise 噪声	Now 现在	Normal 正常	Noise pollution 噪音污染	1	2	2	I	N 否						
25	Operation of the steam ejector 蒸汽喷射器的运行	Noise emission 噪音的排放	Noise 噪声	Now 现在	Normal 正常	Noise pollution 噪音污染	1	2	2	I	N 否						
		Steam consumption 蒸汽的消耗	Steam 蒸汽	Now 现在	Normal 正常	Energy consumption 能源 消耗	1	2	2	I	N 否						
26	Operation of the backup heat exchanger 后备换热器的运行	Steam consumption 蒸汽的消耗	Steam 蒸汽	Now 现在	Normal 正常	Energy consumption 能源 消耗	1	2	2	I	N 否						
		Consumption of desalinated water 脱盐水的消耗	Desalinate d water 脱盐水	Now 现在	Normal 正常	Resource consumption 资源 消耗	2	1	2	I	N 否						
27	Operation of the expansion unit 膨胀机组的运行	Water consumption 水的消耗	Water 水	Now 现在	Normal 正常	Resource consumption 资源 消耗	1	2	2	I	N 否						
		Lubricant consumption 润滑油的消耗	Oil product 油品	Now 现在	Normal 正常	Resource consumption 资源 消耗	2	1	2	I	N 否						
		Gas consumption 空气的消耗	Compress ed air 压缩空气	Now 现在	Normal 正常	Resource consumption 资源 消耗	1	2	2	I	N 否						
		Electricity consumption 电的消耗	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源 消耗	1	2	2	I	N 否						
		Generation of low temperature waste liquid 低温废液的产生	Liquid nitrogen 液氮	Now 现在	Normal 正常	Resource consumption 资源 消耗	1	2	2	I	N 否						
		Generation of waste pearlescent sand 废珠光砂的产生	Pearlescen t sand 珠光砂	Future 将来	Abnormal 异常	General solid waste pollution 一般固废污染	2	4	8	II	N 否						
		Noise emission 噪音的排放	Noise 噪声	Now 现在	Normal 正常	Noise pollution 噪音污染	2	2	4	II	N 否						
28	Operation of liquid nitrogen storage tanks 液氮储罐的运行	Nitrogen emissions 氮气的排放	Nitrogen 氮气	Now 现在	Normal 正常	Resource consumption 资源 消耗	1	2	2	I	N 否						
		Production of waste pearl sand 废珠光砂的产生	Pearlescen t sand 珠光砂	Future 将来	Absent 异常	General solid waste pollution 一般固废污染	2	4	8	II	N 否						
		Liquid nitrogen leak	Liquid	Future	Urgent	Resource	1	2	2	I	N 否						

		液氮的泄漏	nitrogen 液氮	将来	紧急	consumption 资源 消耗												
29	Operation of the cold box 冷箱的运行	Exhaust emissions 废气的排放	Nitrogen 氮气	Now 现在	Normal 正常	Resource consumption 资源 消耗	2	1	2	I	N 否							
		Production of waste pearl sand 废珠光砂的产生	Pearlescen t sand 珠光砂	Future 将来	Normal 正常	General solid waste pollution 一般固废污染	2	4	8	II	N 否							
		Discharge of cryogenic liquids 低温液体的排 放	Liquid nitrogen 液氮	Now 现在	Normal 正常	Resource consumption 资源 消耗	1	2	2	I	N 否							
		Noise emission 噪音的排放	Noise 噪声	Now 现在	Normal 正常	Noise pollution 噪音污染	2	1	2	I	N 否							
30	Cryogenic liquid pump operation 低温液体泵运行	Liquid Nitrogen leak 液氮的泄漏	Liquid Nitrogen 液氮	Now 现在	Normal 正常	Resource consumption 资源 消耗	2	1	2	I	N 否							
		Noise emission 噪音的排放	Noise 噪声	Now 现在	Normal 正常	Noise pollution 噪音污染	1	2	2	I	N 否							
31	Valve, pipeline operation 阀门、管道运行	Seal point leaks 密封点泄漏	Wastewat er 废水	Future 将来	Urgent 紧急	Water pollution 水体污染	2	1	2	I	N 否							
			Oil product 油品	Future 将来	Urgent 紧急	Hazardous waste pollution 危险废物污染	3	3	9	III	Y 是	1.Unified collection and disposal.统一收集 处置。 2. Prevent contamination caused by leakage.防止泄漏 造成污染。	2	2	4	II		
32	Maintenance work 检修作业	Waste lubricating oil 废润滑油产生	Oil product 油品	Future 将来	Abnormal 异常	Hazardous waste pollution 危险废物污染	3	3	9	III	Y 是	1. Prepare the equipment to collect the waste lubricating oil before maintenance. 检修前准备好器具收 集废润滑油。 2. Unified collection and disposal.统一收集 处置。 3. Prevent contamination caused by leakage.防止泄漏 造成污染。	2	2	4	II		

		Overhaul waste generation 检修垃圾的产生	Solid waste 固体垃圾	Future 将来	Abnormal 异常	General solid waste pollution 一般固废污染	2	3	6	II	N 否						
33	Office activities 办公活动	Discarded markers, ballpoint pens, batteries 废弃记号笔、圆珠笔、电池	Markers, ballpoint pens, batteries 记号笔、圆珠笔、电池	Now 现在	Normal 正常	General solid waste pollution 一般固废污染	2	3	6	II	N 否						
		Use of paper 纸张的使用	Paper 纸张	Now 现在	Normal 正常	General solid waste pollution 一般固废污染	2	3	6	II	N 否						
		Use of electricity 电的使用	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否						
		Water consumption 水的消耗	Water 水	Now 现在	Normal 正常	Resource consumption 资源消耗	1	2	2	I	N 否						
34	File printing 文件打印	toner cartridges, and ink cartridges 硒鼓、墨盒的产生	Toner Cartridge, Toner Cartridge 硒鼓、墨盒	Now 现在	Normal 正常	Hazardous waste pollution 危险废物污染	3	3	9	III	Y 是	1. Timely recycling and disposal according to the requirements of hazardous waste treatment. 及时回收, 按危险废物处理要求进行处置。 2. Do not dispose of it at will or treat it as general solid waste. 禁止随意丢弃或当一般固废处理。	2	2	4	II	
		Use of electricity 电的使用	Electricity 电	Now 现在	Normal 正常	Energy consumption 能源消耗	1	2	2	I	N 否						
Reviewed by: 审核人: 3 亮						Approved by: 批准人: 余红梅											