

ภาคผนวก ข-7

แผนการบำรุงรักษาเชิงป้องกัน (Preventive Maintenance Plan)

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25Year=3mth, 0.33Year=4mth, 0.50Year=6mth)												* by SandL * by Maker		Plan year: 2022 Revision: 00 (05-05-2022)											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022																			
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.								
1	Pump	P11-1-A	1005	Reactor Discharge Pump	Centrifugal Slurry pump	inspection coupling	2.00	2020	2022																				
		P11-1-A				Check temp pump and motor	0.25	2021	2022		*			*				*		*	*								
		P11-1-A				check vibration	1.00	2021	2022											*	*								
		P11-1-A				recheck alignment	2.00	2020	2022																				
		P11-1-A				Change oil bearing	1.00	Nov-21	2022											*									
		P11-1-A				Cleaning Y-staner mechanical seal	0.25	2021	2022		*			*			*		*	*	*								
		P11-1-A				Inspection Impeller ,Casing 1130 11PT test	5.00	2018	2023																				
		P11-1-A				Change mechanical seal	5.00	2018	2023																				
		P11-1-A				Over haul pump	5.00	2018	2023																				
2	Pump	P11-2-A	1005	Reactor Discharge Pump	Centrifugal Slurry pump	inspection coupling	2.00	2020	2022											*									
		P11-2-A				Check temp pump and motor	0.25	2021	2022		*			*			*		*	*	*								
		P11-2-A				check vibration	1.00	2021	2022												*								
		P11-2-A				recheck alignment	2.00	2020	2022											*									
		P11-2-A				Cleaning Y-staner mechanical seal	0.25	2021	2022		*			*			*		*	*	*								
		P11-2-A				Inspection Impeller ,Casing 1130 11PT test	5.00	2019	2024																				
		P11-2-A				Change oil bearing	1.00	Nov-21	2022											*									
		P11-2-A				Change mechanical seal	5.00	2019	2024																				
		P11-2-A				Over haul pump	5.00	2019	2024																				
3	Pump	P11-3-A	1005	Reactor Discharge Pump	Centrifugal Slurry pump	inspection coupling	2.00	2020	2022											*									
		P11-3-A				Check temp pump and motor	0.25	2021	2022		*			*			*		*	*	*								
		P11-3-A				check vibration	1.00	2020	2022											*	*								
		P11-3-A				recheck alignment	2.00	2020	2022											*									
		P11-3-A				Cleaning Y-staner mechanical seal	0.25	2020	2022		*			*			*		*	*	*								
		P11-3-A				Inspection Impeller ,Casing 1130 11PT test	5.00	2021	2026																				
		P11-3-A				Change oil bearing	1.00	Nov-21	2022											*									
		P11-3-A				Change mechanical seal	5.00	2021	2026											*	*								

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														by SandL by Maker											
														05 MAY 2022											
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										Jan.	Feb.	Mar.	Apr.	May	Jun	Jul	Aug.	Sep.	Oct.	Nov.	Dec.				
		P11-3-A				Over haul pump	5.00	2021	2026																
4	Pump	P11-4-A	1005	Reactor Discharge Pump	Centrifugal Slurry pump	inspection coupling	2.00	2020	2022											*					
		P11-4-A				Check temp pump and motor	0.25	2021	2022		*		*		*		*		*		*				
		P11-4-A				check vibration	1.00	2021	2022												*				
		P11-4-A				recheck alignment	2.00	2020	2022												*				
		P11-4-A				Cleaning Y-staner mechanical seal	0.25	2021	2022	*		*		*		*		*		*					
		P11-4-A				Inspection Impeller ,Casing 1/2" NPT test	5.00	2022	2027																
		P11-4-A				Change oil bearing	1.00	Nov-21	2022											*					
		P11-4-A				Change mechanical seal	5.00	2022	2027																
		P11-4-A				Over haul pump	5.00	2022	2027																
5	Pump	P12-1-A	1015	Release Tank Discharge Pump	Centrifugal Slurry pump	inspection coupling	2.00	2019	2022											*					
		P12-1-A				Check temp pump and motor	0.25	2021	2022		*		*		*		*		*		*				
		P12-1-A				check vibration	1.00	2021	2022												*				
		P12-1-A				recheck alignment	2.00	2020	2022											*					
		P12-1-A				Cleaning Y-staner mechanical seal	0.25	2020	2022	*		*		*		*		*		*					
		P12-1-A				Change oil bearing	1.00	Nov-21	2022											*					
		P12-1-A				Impeller ,Casing 1/2" NPT test	5.00	2020	2025																
		P12-1-A				Change meachanical seal	5.00	2020	2025																
		P12-1-A				Over haul pump	5.00	2020	2025																
6	Pump	P12-2-A	1015	Release Tank Discharge Pump	Centrifugal Slurry pump	inspection coupling	2.00	2019	2022										*						
		P12-2-A				Check temp pump and motor	0.25	2021	2022		*		*		*		*		*		*				
		P12-2-A				check vibration	1.00	2021	2022											*					
		P12-2-A				recheck alignment	2.00	2020	2022											*					
		P12-2-A				Cleaning Y-staner mechanical seal	0.25	2020	2022	*		*		*		*		*		*					

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NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022											
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.
10	Pump	P14-1-N	1022	Waste Water Cushion Tank Discharge Pump (1)	Centrifugal pump	inspection coupling	3.00	2019	2022												
		P14-1-N				Check temp pump and motor	0.25	2021	2022		*			*			*			*	
		P14-1-N				recheck alignment	3.00	2019	2022												
		P14-1-N				Change oil bearing	1.00	Nov-21	2022											*	
		P14-1-N				Over haul pump	6.00	2019	2025												
11	Pump	P14-2-N	1022	Waste Water Cushion Tank Discharge Pump (2)	Centrifugal pump	inspection coupling	3.00	2019	2022												
		P14-2-N				Check temp pump and motor	0.25	2021	2022		*			*			*			*	
		P14-2-N				recheck alignment	3.00	2019	2022												
		P14-2-N				Change oil bearing	1.00	Nov-21	2022											*	
		P14-2-N				Over haul pump	6.00	2018	2024												
12	Pump	P15-1-D	1017A	Slurry Pump for Drying (1)	Centrifugal Slurry pump	inspection coupling	2.00	2020	2022												
		P15-1-D				Check temp pump and motor	0.25	2021	2022		*			*		*		*		*	
		P15-1-D				check vibration	1.00	2021	2022											*	
		P15-1-D				recheck alignment	2.00	2020	2022												
		P15-1-D				Cleaning Y-staner mechanical seal	0.50	2021	2022		*			*		*		*		*	
		P15-1-D				Change oil bearing	1.00	Nov-21	2022											*	
		P15-1-D				Over haul pump	5.00	2020	2025												
13	Pump	P15-2-D	1018A	Slurry Pump for Drying (2)	Centrifugal Slurry pump	inspection coupling	2.00	2020	2022												
		P15-2-D				Check temp pump and motor	0.25	2021	2022		*			*		*		*		*	
		P15-2-D				check vibration	1.00	2021	2022											*	
		P15-2-D				recheck alignment	2.00	2020	2022												
		P15-2-D				Cleaning Y-staner mechanical seal	0.50	2021	2022		*			*		*		*		*	
		P15-2-D				Change oil bearing	1.00	Nov-21	2022											*	
		P15-2-D				Over haul pump	5.00	2017	2022												

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										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.
14	Pump	P22-A P22-A	1020	HCl Drain Transport Pump	Air Diaphragm Pump	Inspection check Over haul pump	3.00 10.00	Nov-21 New 2019	2024 2029										*		
15	Pump	P23-A P23-A P23-A	1021	NaOH Dis. & Stor. Tank Discharge Pump	Canned pump	Change oil bearing Check temp pump and motor Over haul pump	1.00 0.50 6.00	Nov-21 2021 Nov-21	2022 2022 2027						*				*		
16	Pump	P24-1-A P24-1-A P24-1-A P24-1-A	1021	NaOH Circulation Pump (1)	Magnet pump	inspection coupling Check temp pump and motor recheck alignment Over haul pump change can, Drive Rotor	3.00 0.50 3.00 6.00	2019 2020 2019 2019	2022 2022 2022 2025						*				*		
17	Pump	P24-2-A P24-2-A P24-2-A P24-2-A	1021	NaOH Circulation Pump (2)	Magnet pump	inspection coupling Check temp pump and motor recheck alignment Over haul pump change can, Drive Rotor	3.00 0.50 3.00 6.00	2019 2021 2019 2022	2022 2022 2022 2028						*				*		
18	Pump	P25-A P25-A P25-A P25-A	1021	Waste NaOH Transport Pump	Magnet pump	inspection coupling Check temp pump and motor recheck alignment Over haul pump change can, Drive Rotor	3.00 0.50 3.00 10.00	2020 2021 2020 2020	2023 2022 2023 2030						*				*		
19	Pump	P26-N	1021A	Neutralized Waste NaOH Transport Pump	Magnet pump	inspection coupling	3.00	2019	2023												

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NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.		
		P26-N				Check temp pump and motor	0.50	2021	2022					*						*			
		P26-N				recheck alignment	3.00	2019	2022														
		P26-N				Over haul pump change can, Drive Rotor	10.00	2015	2025														
20	Pump	P32-1-P	1004	PVC Slurry Transport Pump (1)	Centrifugal Slurry pump	inspection coupling	2Y	2020	2022												*		
		P32-1-P				Check temp pump and motor	3M	2021	2022	*		*		*			*			*			
		P32-1-P				recheck alignment	1Y	2020	2022											*			
		P32-1-P				Cleaning Y-staner mechanical seal	3M	2021	2022	*		*		*			*			*			
		P32-1-P				Change oil bearing	1Y	2021	2022											*			
		P32-1-P				Over haul pump	5Y	2020	2025														
21	Pump	P32-2-P	1004	PVC Slurry Transport Pump (2)	Centrifugal Slurry pump	inspection coupling	2Y	2021	2023														
		P32-2-P				Check temp pump and motor	3M	2021	2022	*		*		*			*			*			
		P32-2-P				recheck alignment	1Y	2021	2022											*			
		P32-2-P				Cleaning Y-staner mechanical seal	3M	2021	2022	*		*		*			*			*			
		P32-2-P				Change oil bearing	1Y	2021	2022											*			
		P32-2-P				Over haul pump	5Y	2021	2026														
22	Pump	P35-1-A	1013	SQ Agent Service Pump (1)	Double Diaphragm Non Seal Pump	Over haul pump	10.00	2015	2025												*		
		P35-1-A				Check temp pump and motor	0.50	2021	2022	*				*						*			
		P35-1-A				Change oil bearing	1.00	Nov-21	2022											*			
		P35-1-A				Change diaphragm	5.00	2020	2025														
		P35-1-A				General Inspection	1.00	2021	2022											*			
		P35-1-A				Change oil seal piston rod	5.00	2020	2025											*			
		P35-1-A				Change O-ring set	5.00	2020	2025											*			

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NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.		
23	Pump	P35-2-A	1013	SQ Agent Service Pump (2)	Double Diaphragm Non Seal Pump	Over haul pump	10.00	2015	2025														
		P35-2-A				Check temp pump and motor	0.50	2021	2022						*						*		
		P35-2-A				Change oil bearing	1.00	Nov-21	2022											*			
		P35-2-A				Change diaphragm	5.00	2020	2025														
		P35-2-A				General Inspection	1.00	2021	2022											*			
		P35-2-A				Change oil seal piston rod	5.00	2021	2026											*			
		P35-2-A				Change O-ring set	5.00	2021	2026											*			
24	Pump	P35-3-A	1013	SQ Agent Service Pump (3)	Double Diaphragm Non Seal Pump	Over haul pump	10.00	2015	2025						*						*		
		P35-3-A				Check temp pump and motor	0.50	2021	2022											*			
		P35-3-A				Change oil bearing	1.00	Nov-21	2022											*			
		P35-3-A				Change diaphragm	5.00	2020	2025														
		P35-3-A				General Inspection	1.00	2021	2022											*			
		P35-3-A				Change oil seal piston rod	5.00	2021	2026											*			
		P35-3-A				Change O-ring set	5.00	2021	2026											*			
25	Pump	P35-4-A	1013	SQ Agent Service Pump (4)	Double Diaphragm Non Seal Pump	Over haul pump	10.00	2015	2025						*						*		
		P35-4-A				Check temp pump and motor	0.50	2021	2022											*			
		P35-4-A				Change oil bearing	1.00	Nov-21	2022											*			
		P35-4-A				Change diaphragm	5.00	2020	2025														
		P35-4-A				General Inspection	1.00	2021	2022											*			
		P35-4-A				Change oil seal piston rod	5.00	2021	2026											*			
		P35-4-A				Change O-ring set	5.00	2021	2026											*			
26	Pump	P35-5-A	1013	SQ Agent Service Pump (5)	Double Diaphragm Non Seal Pump	Over haul pump	10.00	2015	2025						*						*		
		P35-5-A				Check temp pump and motor	0.50	2021	2022						*					*			
		P35-5-A				Change oil bearing	1.00	Nov-21	2022											*			

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										Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
						Change O-ring set	5.00	2021	2026											*	
30	Pump	P36-1-A	1013	BQ Agent Service Pump (1)	Double Diaphragm Non Seal Pump	Over haul pump	10.00	2015	2025												
		P36-1-A				Check temp pump and motor	0.50	2021	2022		*										*
		P36-1-A				Change oil bearing	1.00	Nov-21	2022											*	
		P36-1-A				Change diaphragm	6.00	2015	2025												
		P36-1-A				General Inspection	1.00	2020	2022											*	
		P36-1-A				Change oil seal piston rod	5.00	Nov-21	2027											*	
		P36-1-A				Change O-ring set	5.00	Nov-21	2026											*	
31	Pump	P36-2-A	1013	BQ Agent Service Pump (2)	Double Diaphragm Non Seal Pump	Over haul pump	10.00	2015	2025												
		P36-2-A				Check temp pump and motor	0.50	2021	2022		*										*
		P36-2-A				Change oil bearing	1.00	Nov-21	2022											*	
		P36-2-A				Change diaphragm	6.00	2015	2025												
		P36-2-A				General Inspection	1.00	2021	2022											*	
		P36-2-A				Change oil seal piston rod	6.00	Nov-21	2027											*	
		P36-2-A				Change O-ring set	5.00	Nov-21	2026											*	
32	Pump	P37-1-A	1014	Sodium Sulfite Service Pump (1)	Snake pump	Inspection rotor:stator	6.00	2017	2023												
		P37-1-A				Check temp pump and motor	0.50	2021	2022		*										*
		P37-1-A				Over haul pump	10.00	2015	2025												
33	Pump	P37-2-A	1014	Sodium Sulfite Service Pump (2)	Snake pump	Inspection rotor:stator	6.00	2017	2023												
		P37-2-A				Check temp pump and motor	0.50	2021	2022		*										*
		P37-2-A				Over haul pump	10.00	2015	2025												

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)										* by SandL * by Maker		Plan year : 2022 Revision : 00 (05-05-2022)											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022																	
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.						
34	Pump	P38-A	1013	SQ Agent Transport Pump	Centrifugal pump	inspection coupling	3.00	2019	2022												*						
		P38-A				Check temp pump and motor	0.50	2021	2022				*								*						
		P38-A				Over haul pump	6.00	2020	2026																		
		P38-A				Change oil bearing	1.00	Nov-21	2022											*							
		P38-A				recheck alignment	6.00	2019	2025																		
35	Pump	P39-A	1013	BQ Agent Transport Pump	Cascade pump	inspection coupling	3.00	2019	2022												*						
		P39-A				Check temp pump and motor	0.50	2020	2021				*								*						
		P39-A				recheck alignment	3.00	2019	2022																		
		P39-A				Over haul pump	6.00	Nov-21	2027																		
36	Pump	P40-A	1014	Sodium Sulfite Transport Pump	Magnet Non Seal pump	inspection coupling	3.00	2019	2022												*						
		P40-A				Check temp pump and motor	0.50	2021	2022				*								*						
		P40-A				Change oil bearing	1.00	Nov-21	2022											*							
		P40-A				Over haul pump change can, Drive Rotor	6.00	2021	2027																		
37	Pump	P41-1-A	1005	Warm Water Pump (1)	Centrifugal pump	inspection coupling	2.00	2020	2022											*							
		P41-1-A				Check temp pump and motor	0.25	2021	2022	*		*		*		*		*		*							
		P41-1-A				check vibration	1.00	2021	2022											*							
		P41-1-A				recheck alignment	2.00	2020	2022											*							
		P41-1-A				Change oil bearing	1.00	Nov-21	2022											*							
38	Pump	P41-1-A				Over haul pump	6.00	2019	2025																		
38	Pump	P41-2-A	1006	Warm Water Pump (2)	Centrifugal pump	inspection coupling	2.00	2020	2022											*							
		P41-2-A				Check temp pump and motor	0.25	2021	2022	*		*		*		*		*		*							

S and L Specialty Polymers Co.,Ltd			Equipment PM plan of 2022			* by SundL * by Maker		Plan year: 2022 Revision: 00 (05-05-2022)		Year 2022 05 MAY 2022											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.
42	Pump	P41-6-A	1010	Warm Water Pump (6)	Centrifugal pump	inspection coupling	2.00	2020	2022												
		P41-6-A				Check temp pump and motor	0.25	2021	2022	*		*		*		*		*		*	
		P41-6-A				check vibration	1.00	2021	2022												*
		P41-6-A				recheck alignment	2.00	2020	2022												*
		P41-6-A				Change oil bearing	1.00	Nov-21	2022												*
		P41-6-A				Over haul pump	6.00	2021	2027												
43	Pump	P41-7-A	1011	Warm Water Pump (7)	Centrifugal pump	inspection coupling	2.00	2020	2022												*
		P41-7-A				Check temp pump and motor	0.25	2021	2022	*		*		*		*		*		*	
		P41-7-A				check vibration	1.00	2021	2022												*
		P41-7-A				recheck alignment	2.00	2020	2022												*
		P41-7-A				Change oil bearing	1.00	Nov-21	2022												*
		P41-7-A				Over haul pump	4.00	Apr-22	2026												*
44	Pump	P41-8-A	1012	Warm Water Pump (8)	Centrifugal pump	inspection coupling	2.00	2020	2022												*
		P41-8-A				Check temp pump and motor	0.25	2021	2022	*		*		*		*		*		*	
		P41-8-A				check vibration	1.00	2021	2022												*
		P41-8-A				recheck alignment	2.00	2020	2022												*
		P41-8-A				Change oil bearing	1.00	Nov-21	2022												*
		P41-8-A				Over haul pump	6.00	28/04/2022													
45	Pump	P42-1-W	1028	Washing Water Pump (1)	Centrifugal pump	inspection coupling	2.00	2020	2022												*
		P42-1-W				Check temp pump and motor	0.25	2021	2022	*		*		*		*		*		*	
		P42-1-W				check vibration	1.00	2021	2022												*
		P42-1-W				recheck alignment	2.00	2020	2022												*
		P42-1-W				Change oil bearing	1.00	Nov-21	2022												*
		P42-1-W				Over haul pump	6.00	2020	2026												*

S and L Specialty Polymers Co.,Ltd			Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)			* by SundL * by Maker		Plan year: 2022 Revision: 00 (05-05-2022)													
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022											
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.
46	Pump	P42-2-W	1028	Centrifugal pump	Centrifugal pump	inspection coupling	2.00	2020	2022												
		P42-2-W				Check temp pump and motor	0.25	2021	2022	*		*				*				*	
		P42-2-W				check vibration	1.00	2021	2022												*
		P42-2-W				recheck alignment	2.00	2020	2022											*	
		P42-2-W				Change oil bearing	1.00	Nov-21	2022											*	
		P42-2-W				Over haul pump	6.00	Nov-19	2025											*	
47	Pump	P42-3-W	1028	Centrifugal pump	Centrifugal pump	inspection coupling	2.00	2020	2022											*	
		P42-3-W				Check temp pump and motor	0.25	2021	2022	*		*				*				*	
		P42-3-W				check vibration	1.00	2021	2022												*
		P42-3-W				recheck alignment	2.00	2020	2022											*	
		P42-3-W				Change oil bearing	1.00	Nov-21	2022											*	
		P42-3-W				Over haul pump	6.00	Nov-19	2025											*	
48	Pump	P42-4-W	1028	Centrifugal pump	Centrifugal pump	inspection coupling	2.00	2020	2022											*	
		P42-4-W				Check temp pump and motor	0.25	2021	2022	*		*				*				*	
		P42-4-W				check vibration	1.00	2021	2022												*
		P42-4-W				recheck alignment	2.00	2020	2022											*	
		P42-4-W				Change oil bearing	1.00	Nov-21	2022											*	
		P42-4-W				Over haul pump	6.00	Aug-19	2025											*	
49	Pump	P43-A	1013	Air Diaphragm Pump	Air Diaphragm Pump	Inspection diaphragm	6.00	2021	2027												
		P43-A				Over haul pump	10.00	2015	2025												

S and L Specialty Polymers Co.,Ltd			Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)					* by SandL * by Maker		Plan year : 2022 Revision : 00 (05-05-2022)													
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022													
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.		
50	Pump	P45-A	1021	Magnet Non Seal pump	Magnet Non Seal pump	inspection coupling	3.00	2019	2022												*		
		P45-A				Check temp pump and motor	0.50	2021	2022					*							*		
		P45-A				Over haul pump	10.00	2015	2025														
		P45-A				Change oil bearing	1.00	2021	2022												*		
		P45-A				recheck alignment	3.00	2019	2022												*		
51	Pump	P46-A	1014	Magnet Non Seal pump	Magnet Non Seal pump	inspection coupling	3.00	2019	2022												*		
		P46-A				Check temp pump and motor	0.50	2021	2022					*							*		
		P46-A				Over haul pump change can, Drive Rotor	10.00	2015	2025														
		P46-A				Change oil bearing	1.00	Nov-21	2022												*		
52	Pump	P58-D	1018c	NaOH Pump for Drying Unit	Metering Pump	Inspection	3.00	2020	2023														
		P58-D				Check temp pump and motor	0.50	2021	2022					*							*		
		P58-D				Over haul pump	10.00	2015	2025														
53	Pump	P61-1-U	1024	Filtration Tower Supply Pump (1)	Centrifugal pump	inspection coupling	3.00	2020	2023														
		P61-1-U				Check temp pump and motor	0.50	2021	2022					*							*		
		P61-1-U				recheck alignment	3.00	2020	2023														
		P61-1-U				Over haul pump	10.00	2020	2030														
54	Pump	P61-2-U	1024	Filtration Tower Supply Pump (2)	Centrifugal pump	inspection coupling	3.00	2019	2022												*		
		P61-2-U				Check temp pump and motor	0.50	2021	2022					*							*		
		P61-2-U				recheck alignment	3.00	2019	2022												*		
		P61-2-U				Over haul pump	10.00	2015	2025														

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year : 2022 Revision : 00 (05-05-2022)											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022 05 MAY 2022											
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.
55	Pump	P64-U	1024A	Filtration Tower Backwash pump	Centrifugal pump	inspection coupling	3.00	2019	2022												*
		P64-U				Check temp pump and motor	0.50	2020	2021			*									*
		P64-U				recheck alignment	3.00	2019	2022											*	
		P64-U				Over haul pump	10.00	2015	2025												
56	Pump	P65-1-U	1024	FW Transport Pump (1)	Centrifugal pump	inspection coupling	3.00	2019	2022											*	
		P65-1-U				Check temp pump and motor	0.25	2021	2022		*			*			*			*	
		P65-1-U				recheck alignment	3.00	2019	2022											*	
		P65-1-U				Over haul pump	10.00	Jun-19	2029												
57	Pump	P65-2-U	1024	FW Transport Pump (2)	Centrifugal pump	inspection coupling	3.00	2020	2023												
		P65-2-U				Check temp pump and motor	0.25	2020	2021		*		*				*			*	
		P65-2-U				recheck alignment	3.00	2020	2023												
		P65-2-U				Over haul pump	10.00	2020	2030												
58	Pump	P68-1-U	1025	BW Transport Pump (1)	Centrifugal pump	inspection coupling	3.00	2019	2022											*	
		P68-1-U				Check temp pump and motor	0.25	2020	2022		*		*				*			*	
		P68-1-U				recheck alignment	3.00	2019	2022											*	
		P68-1-U				Over haul pump	6.00	2016	2022											*	
59	Pump	P68-2-U	1025	BW Transport Pump (2)	Centrifugal pump	inspection coupling	3.00	2020	2023												
		P68-2-U				Check temp pump and motor	0.25	2020	2022		*		*				*			*	
		P68-2-U				recheck alignment	3.00	2020	2023												
		P68-2-U				Over haul pump	6.00	2020	2026												

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year: 2022 Revision: 00 (05-05-2022)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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60	Pump	P70-1-U	1030	PW Transport Pump (1)	Centrifugal pump	inspection coupling	3.00	2019	2022																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

S and L Specialty Polymers Co., Ltd				Equipment PM plan of 2022				Plan year : 2022 Revision : 00 (05-05-2022)													
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022											
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec
65	Pump	P77-2-U	1034	Diesel Engine Driven Fire Water Pump (2)	Fire Water Pump	PM package unit	0.25	2021	2022				*		*					*	
		P77-2-U				Check temp pump and motor	0.25	2021	2022			*			*					*	
		P77-2-U				Performance test enging fire pump	1.00	2021	2022					*							
		P77-2-U				Performance test motor fire pump	1.00	2021	2022					*							
		P77-2-U				Change spare part	1.00	2021	2022											*	
		P77-2-U				Over haul pump	10.00	2015	2025												
66	Pump	P78-U	1034	Motor Driven Fire Water Pump (Jockey Pump)	Fire Water Pump	PM package unit	0.25	2021	2022			*		*		*				*	
		P78-U				Check temp pump and motor	0.25	2021	2022			*		*		*				*	
		P78-U				Over haul pump	10.00	2015	2025												
67	Pump	P80-1-U	1032	Water Distribution Pump A	Automatic pump	inspection	3.00	2021	2024												
		P80-1-U				Check temp pump and motor	0.50	2021	2022			*		*		*					
		P80-1-U				Over haul pump	10.00	2015	2025												
68	Pump	P80-2-U	1032	Water Distribution Pump B	Centrifugal pump	inspection	3.00	2021	2024												
		P80-2-U				Check temp pump and motor	0.50	2020	2021			*		*		*					
		P80-2-U				Over haul pump	10.00	2015	2025												
69	Pump	P81-1-N	1022	HCl Neutralization Circulation Pump (1)	Centrifugal pump	inspection coupling	3.00	2019	2022											*	
		P81-1-N				Check temp pump and motor	0.25	2021	2022			*		*		*				*	
		P81-1-N				recheck alignment	3.00	2019	2022												
		P81-1-N				Change oil bearing	1.00	Nov-21	2022											*	
		P81-1-N				Over haul pump	5.00	2017	2022											*	

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year : 2022													
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022													
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.		
05 MAY 2022																							
70	Pump	P81-2-N	1022	HCl Neutralization Circulation Pump (2)	Centrifugal pump	inspection coupling	3.00	2019	2022												*		
		P81-2-N				Check temp pump and motor	0.25	2021	2022	*				*			*			*			
		P81-2-N				recheck alignment	3.00	2019	2022											*			
		P81-2-N				Change oil bearing	1.00	Nov-21	2022											*			
		P81-2-N				Over haul pump	5.00	2020	2025														
71	Pump	P83-N	1023A	HCl Storage Tank Discharge Pump	Centrifugal pump	inspection coupling	3.00	2019	2022											*			
		P83-N				recheck alignment	3.00	2019	2022											*			
		P83-N				Change oil bearing	1.00	Nov-21	2022											*			
		P83-N				Over haul pump	5.00	2020	2025														
72	Pump	P85-N	1023A	pH Adjustment Pump (HCl)	Magnet pump	inspection coupling	3.00	2019	2022								*			*			
		P85-N				Check temp pump and motor	0.50	2021	2022	*						*							
		P85-N				recheck alignment	3.00	2019	2022											*			
		P85-N				Over haul pump change can, Drive Rotor	10.00	2015	2025														
73	Pump	P86-A	1021	pH Adjustment Pump (NaOH)	Canned pump	inspection coupling	3.00	2019	2022											*			
		P86-A				Check temp pump and motor	0.50	2021	2022	*						*							
		P86-A				recheck alignment	3.00	2019	2022											*			
		P86-A				Over haul pump	10.00	2015	2025														
74	Pump	P87-1-N	1023A	Waste Water Transport Pump (High TDS)	Magnet pump	inspection coupling	3.00	2019	2022											*			
		P87-1-N				Check temp pump and motor	0.50	2021	2022	*						*							
		P87-1-N				recheck alignment	3.00	2019	2022											*			

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			(0.25year=3mth, 0.33year=4mth, 0.50year=6mth)						Year 2022												
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.
						Over haul pump	10.00	2015	2025												
75	Pump	P87-2-N	1023A	Waste Water Transport Pump (High TDS)	Centrifugal pump	inspection coupling	3.00	2019	2022											*	
		P87-2-N				Check temp pump and motor	0.50	2021	2022	*						*					
		P87-2-N				recheck alignment	3.00	2019	2022											*	
		P87-2-N				Change oil bearing	1.00	Nov-21	2022											*	
		P87-2-N				Over haul pump	6.00	Nov-17	2023												
76	Pump	P88-1-N	1023A	Waste Water Transport Pump (Low TDS)	Centrifugal pump	inspection coupling	3.00	2019	2022											*	
		P88-1-N				Check temp pump and motor	0.50	2020	2022	*						*					
		P88-1-N				recheck alignment	3.00	2019	2022											*	
		P88-1-N				Change oil bearing	1.00	Nov-21	2022											*	
		P88-1-N				Over haul pump	6.00	New2016	2022											*	
77	Pump	P88-2-N	1023A	Waste Water Transport Pump (Low TDS)	Centrifugal pump	inspection coupling	3.00	2020	2023												
		P88-2-N				Check temp pump and motor	0.50	2021	2022	*						*					
		P88-2-N				recheck alignment	3.00	2020	2023												
		P88-2-N				Change oil bearing	1.00	Nov-21	2022											*	
		P88-2-N				Over haul pump	6.00	2020	2026												
78	Pump	P89-1-N	1023A	Waste Water Transport Pump	Centrifugal pump	inspection coupling	3.00	2019	2022											*	
		P89-1-N				Check temp pump and motor	0.50	2021	2022	*						*					
		P89-1-N				recheck alignment	3.00	2019	2022											*	
		P89-1-N				Over haul pump	6.00	2021	2027											*	

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year: 2022 Revision: 00 (05-05-2022)		Year 2022 05 MAY 2022											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.		
79	Pump	P89-2-N	1023A	Waste Water Transport Pump	Centrifugal pump	inspection coupling	3.00	2019	2022														
		P89-2-N				Check temp pump and motor	0.50	2021	2022	*					*								
		P89-2-N				recheck alignment	3.00	2019	2022														
		P89-2-N				Change oil bearing	1.00	Nov-21	2022											*			
		P89-2-N				Over haul pump	6.00	New2016	2022											*			
80	Pump	P90-N	1023A	Waste Water Circulation Pump	Centrifugal pump	inspection coupling	3.00	2020	2023														
		P90-N				Check temp pump and motor	0.50	2020	2021	*					*								
		P90-N				recheck alignment	3.00	2020	2023														
		P90-N				Over haul pump	6.00	2021	2027														
81	Pump	P91-N	1023A	Waste Water Recovery Pump	Centrifugal pump	inspection coupling	3.00	2019	2022											*			
		P91-N				Check temp pump and motor	0.50	2021	2022	*					*								
		P91-N				recheck alignment	3.00	2019	2022											*			
		P91-N				Over haul pump	10.00	2015	2025														
82	Pump	P92-N	1023	Waste Water Transport Pump(Reactor House) (4)	Centrifugal pump (Self Priming)	inspection coupling	3.00	2019	2022											*			
		P92-N				Check temp pump and motor	0.50	2021	2022	*					*								
		P92-N				recheck alignment	3.00	2019	2022											*			
		P92-N				Over haul pump	5.00	2015	2025														
83	Pump	P93-N	1023	Waste Water Transport Pump(Washing & Neutralization Yard)	Centrifugal pump (Self Priming)	inspection coupling	3.00	2019	2022											*			
		P93-N				Check temp pump and motor	0.50	2021	2022	*					*								
		P93-N				recheck alignment	3.00	2019	2022											*			
		P93-N				Over haul pump	5.00	2015	2025														

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022				* by SandL * by Maker		Plan year : 2022 Revision : 00 (05-05-2022)													
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022													
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec		
84	Pump	P96-N	1023	Waste Water Transport Pump(Drying & Ware House Yard) (4)	Centrifugal pump (Self Priming)	inspection coupling	3.00	2019	2022														
		P96-N				Check temp pump and motor	0.50	2021	2022	*						*					*		
		P96-N				recheck alignment	3.00	2019	2022												*		
		P96-N				Over haul pump	5.00	2015	2025														
85	Pump	P96-2	1023	Waste Water Transport Pump(Drying & Ware House Yard) (4)	Centrifugal pump (Self Priming)	inspection coupling	3.00	2019	2022												*		
		P96-2				Check temp pump and motor	0.50	2021	2022	*						*							
		P96-2				recheck alignment	3.00	2019	2022												*		
		P96-2				Over haul pump	5.00	2022	2027														
		P96-2				Change oil	3.00	2022	2022												*		
86	Pump	P96-3	1023	Waste Water Transport Pump(Drying & Ware House Yard) (4)	Centrifugal pump (Self Priming)	inspection coupling	3.00	2019	2022												*		
		P96-3				Check temp pump and motor	0.50	2021	2022	*						*							
		P96-3				recheck alignment	3.00	2019	2022												*		
		P96-3				Over haul pump	3.00	2022	2027														
		P96-3				Change oil	1.00	2022	2022												*		
87	Pump	P97-N	1023	Waste Water Transport Pump(Utility Yard)	Centrifugal pump (Self Priming)	inspection coupling	3.00	2019	2022												*		
		P97-N				Check temp pump and motor	0.50	2021	2022	*						*							
		P97-N				recheck alignment	3.00	2019	2022												*		
		P97-N				Over haul pump	10.00	2015	2025														
88	Pump	P98-1-N	1022	NaOH Neutralization Pump (1)	Metering Pump	Inspection	5.00	2020	2025												*		
		P98-1-N				Check temp pump and motor	0.50	2021	2022	*						*							
		P98-1-N				Over haul pump	10.00	2015	2025														

S and L Specialty Polymers Co.,Ltd			Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)			* by SandL * by Maker		Plan year: 2022		Revision: 00 (05-05-2022)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022													
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.		
						Overhaul blower	6.00	2015	2022												*		
105	Vacuum Pump	B21-1-A	1020	Water Seal Vacuum Pump (1)	Liquid Ring Vacuum Pump	Inspection	6.00	2018	2024														
		B21-1-A				Overhaul pump	6.00	2018	2024														
106	Vacuum Pump	B21-2-A	1020	Water Seal Vacuum Pump (2)	Liquid Ring Vacuum Pump	Inspection	6.00	2019	2025												*		
		B21-2-A				Overhaul pump	6.00	2019	2025														
107	blower	B27-N	1021	Tank Agitation Blower	Roots blower	recheck alignment and check tensionbelt	1.00	2021	2022												*		
		B27-N				Inspection run out and pulley	1.00	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*		
		B27-N				Change v-belt	1.00	2021	2022												*		
		B27-N				Change oil gear	1.00	2021	2022												*		
		B27-N				Check temp pump and motor	0.25	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*		
		B27-N				Grease up bearing	0.25	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*		
		B27-N				Overhaul blower	10.00	2015	2025														
108	blower	B31-1-P	1004	PVC Transport Blower (1)	Roots Blower	recheck alignment and check tensionbelt	0.50	2021	2022				*								*		
		B31-1-P				inspection Pulley	1.00	2021	2022												*		
		B31-1-P				Change v-belt	1.00	2021	2022												*		
		B31-1-P				Change oil gear	1.00	2021	2022												*		
		B31-1-P				Overhaul blower	2.00	2020	2022												*		
109	blower	B31-2-P	1004	PVC Transport Blower (2)	Roots Blower	recheck alignment and check tensionbelt	0.50	2021	2022				*								*		
		B31-2-P				inspection Pulley	1.00	2021	2022												*		
		B31-2-P				Change v-belt	1.00	2021	2022												*		

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year : 2022 Revision : 00 (05-05-2022)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022 05 MAY 2022											
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec
120	Tubular Conveyor	KR56-D	1019	Tubular Conveyor	Tubular Conveyor	Dis-assembly for Cleaning	1.00	2021	2022												*
		KR56-D				Overhaul (change material.)	10.00	New 2017	2027												
121	Decanter	S11-1-D	1017A	Decanter (1)	(28.6 % slurry)	Check torque switch	6M	2021	2022				*	*							*
		S11-1-D				Check temp decanter and motor	3M	2021	2022			*	*	*		*					*
		S11-1-D				recheck alignment and check tensionbelt	6M	2021	2022				*	*							*
		S11-1-D				inspection Pulley	6M	2021	2022				*	*							*
		S11-1-D				check vibration	3M	2021	2022				*	*		*					*
		S11-1-D				Grease up bearing and drain grease	6M	2021	2022				*	*		*					*
		S11-1-D				Grease Analysis	6M	2021	2022				*	*		*					*
		S11-1-D				Change new v-belt	1Y	2021	2022												*
		S11-1-D				Inspection surface outside bowl,screw,feed tip	3Y	2021	2024												
		S11-1-D				Overhaul decantor	3Y	2021	2024												
		S11-1-D				Overhaul gear box	3Y	2021	2022												*
122	Decanter	S11-2-D	1017A	Decanter (2)	(28.6 % slurry)	Check torque switch	6M	2021	2022				*	*							*
		S11-2-D				Check temp decanter and motor	3M	2021	2022			*	*	*		*					*
		S11-2-D				recheck alignment and check tensionbelt	6M	2021	2022				*	*		*					*
		S11-2-D				inspection Pulley	6M	2021	2022				*	*		*					*
		S11-2-D				check vibration	3M	2021	2022				*	*		*					*
		S11-2-D				Grease up bearing and drain grease	6M	2021	2022				*	*		*					*
		S11-2-D				Grease Analysis	6M	2021	2022				*	*		*					*
		S11-2-D				Change new v-belt	1Y	2021	2022				*	*		*					*
		S11-2-D				Inspection surface outside bowl,screw,feed tip	3Y	2021	2024												
		S11-2-D				Overhaul decantor	3Y	2021	2024												
		S11-2-D				Overhaul gear box	3Y	2021	2022												*

S and L Specialty Polymers Co.,Ltd			Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year: 2022 Revision: 00 (05-05-2022)		Year 2022 05 MAY 2022											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.	
123	Decanter	S11-3-D	1018A	Decanter (3)	(28.6 % slurry)	Check torque switch	6M	2021	2022				*								*	
		S11-3-D				Check temp decanter and motor	3M	2021	2022		*			*							*	
		S11-3-D				recheck alignment and check tensionbelt	6M	2021	2022				*		*						*	
		S11-3-D				inspection Pulley	6M	2021	2022					*							*	
		S11-3-D				check vibration	3M	2021	2022			*		*			*				*	
		S11-3-D				Grease up bearing and drain grease	6M	2021	2022					*	*						*	
		S11-3-D				Grease Analysis	6M	2021	2022					*	*						*	
		S11-3-D				Change new v-belt	1Y	2021	2022												*	
		S11-3-D				Inspection surface outside bowl,screw,feed tube	3Y	2018	2022												*	
		S11-3-D				Overhaul decantor	3Y	2018	2022												*	
		S11-3-D				Overhaul gear box	3Y	2018	2022												*	
124	Decanter	S11-4-D	1018A	Decanter (4)	(28.6 % slurry)	Check torque switch	6M	2021	2022				*								*	
		S11-4-D				Check temp decanter and motor	3M	2021	2022		*		*		*		*				*	
		S11-4-D				recheck alignment and check tensionbelt	6M	2021	2022				*		*		*				*	
		S11-4-D				inspection Pulley	6M	2021	2022				*		*		*				*	
		S11-4-D				check vibration	3M	2021	2022			*	*		*		*				*	
		S11-4-D				Grease up bearing and drain grease	6M	2021	2022				*	*		*					*	
		S11-4-D				Grease Analysis	6M	2021	2022				*	*		*					*	
		S11-4-D				Change new v-belt	1Y	2021	2022												*	
		S11-4-D				Inspection surface outside bowl,screw,feed tube	3Y	2018	2022												*	
		S11-4-D				Overhaul decantor	3Y	2018	2022												*	
		S11-4-D				Overhaul gear box	3Y	2018	2022												*	
125	Vibration Sifter	S17-1-D	1017C	Vibration Sifter (1)	Vibration Sifter	Grease up bearing	0.25	2021	2022		*		*		*		*				*	
		S17-1-D				Inspection spring	1.00	2021	2022												*	
		S17-1-D				Inspection Casing & body	1.00	2021	2022												*	

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year: 2022 Revision: 00 (05-05-2022)		Year 2022 05 MAY 2022											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.		
126	Vibration Sifter	S17-2-D	1017C	Vibration Sifter (2)	Vibration Sifter	Grease up bearing	0.25	2021	2022	*		*		*			*			*			
		S17-2-D				Inspection spring	1.00	2021	2022											*			
		S17-2-D				Inspection Casing & body	1.00	2021	2022											*			
127	Vibration Sifter	S17-3-D	1018C	Vibration Sifter (3)	Vibration Sifter	Grease up bearing	0.25	2021	2022	*		*		*			*			*			
		S17-3-D				Inspection spring	1.00	2021	2022											*			
		S17-3-D				Inspection Casing & body	1.00	2021	2022											*			
128	Vibration Sifter	S17-4-D	1018C	Vibration Sifter (4)	Vibration Sifter	Grease up bearing	0.25	2021	2022	*		*		*			*			*			
		S17-4-D				Inspection spring	1.00	2021	2022											*			
		S17-4-D				Inspection Casing & body	1.00	2021	2022											*			
129	Agitator	Z11-1-A	1005	Reactor Agitator (1)	3-paddles, 1-impeller	Inspection check run out	1.00	Nov-21	2022											*			
		Z11-1-A				Inspection check vertical	1.00	Nov-21	2022											*			
		Z11-1-A				Inspection stethoscope gear motor,bearing	0.08	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*		
		Z11-1-A				Disassembly and inspection oil seal	12.00	2015	2027														
		Z11-1-A				Change oil gear	0.25	Nov-21	2022	*	*	*	*	*	*	*	*	*	*	*	*		
		Z11-1-A				Grease up bearing	0.25	Nov-21	2022	*	*	*	*	*	*	*	*	*	*	*	*		
		Z11-1-A				Retiten lock nut lock washer M/S	0.50	Nov-21	2022	*	*	*	*	*	*	*	*	*	*	*	*		
		Z11-1-A				Change gasket Baffle (left side)	1.50	29/10/2021	00/04/2023														
		Z11-1-A				Change gasket Baffle (right side)	1.50	29/10/2021	00/04/2024														
		Z11-1-A				Change gasket Manhold (frist flange)	1.50	29/10/2021	00/04/2025														
		Z11-1-A				Change gasket Mech box	2.00	5/10/2021	00/04/2023														
		Z11-1-A				Change Mech.seal	2.00	5/10/2021	00/04/2023														
		Z11-1-A				Overhaul Gear cyclone drive	10.00	Nov-19	2029														
		Z11-1-A				Visual gasket baffle,manhole,MS,holding ring	1 week	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*		

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year : 2022 Revision: 00 (05-05-2022)											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022											
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.
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S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year: 2022 Revision: 00 (05-05-2022)		Year 2022 05 MAY 2022											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.		
						Change gasket Mech.box	2.00	Dec-21	00/6/2023														
		Z11-3-A				Change Mech.seal	2.00	Dec-21	00/6/2023														
		Z11-3-A				Overhaul Gear cyclone drive	10.00	Feb-19	2029														
		Z11-3-A				Visual gasket baffle,manhole,MS,holding ring	1 week	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*		
		Z11-3-A				Clening oil pot mechanical seal	1.00	2021	2022											*			
132	Agitator	Z11-4-A	1008	Reactor Agitator (4)	- 3-paddles, 1-impeller	Inspection check run out	1.00	Nov-21	2022											*			
		Z11-4-A				Inspection check vertical	1.00	Nov-21	2022											*			
		Z11-4-A				Inspection stethoscope gear motor,bearing	0.08	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*		
		Z11-4-A				Disassembly and inspection oil seal	12.00	2015	2027														
		Z11-4-A				Change oil gear	0.25	Nov-21	2022	*		*		*		*		*		*	*		
		Z11-4-A				Grease up bearing	0.25	Nov-21	2022	*		*		*		*		*		*	*		
		Z11-4-A				Reiten lock nut lock washer M/S	0.50	Nov-21	2022					*						*			
		Z11-4-A				Change gasget Baffle (left side)	1.50	6/9/2021	00/02/2023														
		Z11-4-A				Change gasget Baffle (right side)	1.50	6/9/2021	00/02/2023									*					
		Z11-4-A				Change gasket Manhold (frist flange)	1.50	6/9/2021	00/02/2023									*					
		Z11-4-A				Change gasket Mech.box	2.00	3/3/2021	00/08/2022									*					
		Z11-4-A				Change Mech.seal	2.00	3/3/2021	00/08/2022									*					
		Z11-4-A				Overhaul Gear cyclone drive	10.00	Sep-18	2028														
		Z11-4-A				Visual gasket baffle,manhole,MS,holding ring	1 week	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*		
		Z11-4-A				Clening oil pot mechanical seal	1.00	2021	2022											*			
133	Agitator	Z11-5-A	1009	Reactor Agitator (5)	- 3-paddles, 1-impeller	Inspection check run out	1.00	Nov-21	2022											*			
		Z11-5-A				Inspection check vertical	1.00	Nov-21	2022											*			
		Z11-5-A				Inspection stethoscope gear motor,bearing	0.08	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*		
		Z11-5-A				Disassembly and inspection oil seal	12.00	2015	2027														
		Z11-5-A				Change oil gear	0.25	Nov-21	2022	*		*		*		*		*		*	*		
		Z11-5-A				Grease up bearing	0.25	Nov-21	2022	*		*		*		*		*		*	*		

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)										* by SandL * by Maker										Plan year : 2022 Revision: 00 (05-05-2022)										Year 2022 05 MAY 2022											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.																								
		Z11-5-A				Retitten lock nut lock washer M/S	0.50	Nov-21	2022					*							*																								
		Z11-5-A				Change gasget Baffle (left side)	1.50	28/9/2021	00/03/2023																																				
		Z11-5-A				Change gasget Baffle (right side)	1.50	28/9/2021	00/03/2023																																				
		Z11-5-A				Change gasket Manhold (frist flange)	1.50	28/9/2021	00/03/2023																																				
		Z11-5-A				Change gasket Mech box	2.00	5/10/2020	00/04/2022				*																																
		Z11-5-A				Change Mech.seal	2.00	5/10/2020	00/04/2022				*																																
		Z11-5-A				Overhaul Gear cyclone drive	10.00	Jan-20	2030																																				
		Z11-5-A				Visual gasket baffle,manhole,MS,holding ring	1 week	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*																								
		Z11-5-A				Clening oil pot mechanical seal	1.00	2021	2022											*	*																								
																					*																								
																					*																								
134	Agitator	Z11-6-A	1010	Reactor Agitator (6)	- 3-paddles, 1-impeller	Inspection check run out	1.00	Nov-21	2022											*	*																								
		Z11-6-A				Inspection check vertical	1.00	Nov-21	2022											*	*																								
		Z11-6-A				Inspection stethoscope gear motor,bearing	0.08	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*																								
		Z11-6-A				Disassembly and inspection oil seal	12.00	2015	2027												*																								
		Z11-6-A				Change oil gear	0.25	Nov-21	2022			*	*	*	*	*	*	*	*	*	*																								
		Z11-6-A				Grease up bearing	0.25	Nov-21	2022			*	*	*	*	*	*	*	*	*	*																								
		Z11-6-A				Retitten lock nut lock washer M/S	0.50	Nov-21	2022					*						*	*																								
		Z11-6-A				Change gasget Baffle (left side)	1.00	16/6/2021	00/07/2023												*																								
		Z11-6-A				Change gasget Baffle (right side)	1.00	16/6/2021	00/07/2023												*																								
		Z11-6-A				Change gasket Manhold (frist flange)	1.00	16/6/2021	00/07/2023												*																								
		Z11-6-A				Change gasket Mech box	2.00	Nov-21	00/05/2023												*																								
		Z11-6-A				Change Mech.seal	2.00	Apr-21	00/10/2023												*																								
		Z11-6-A				Overhaul Gear cyclone drive	10.00	Jun-18	2028												*																								
		Z11-6-A				Visual gasket baffle,manhole,MS,holding ring	1 week	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*																								
		Z11-6-A				Clening oil pot mechanical seal	1.00	2021	2022											*	*																								
																				*	*																								
																					*																								
135	Agitator	Z11-7-A	1011	Reactor Agitator (7)	- 3-paddles, 1-impeller	Inspection check run out	1.00	Nov-21	2022											*	*																								
		Z11-7-A				Inspection check vertical	1.00	Nov-21	2022											*	*																								

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25Year=3mth, 0.33Year=4mth, 0.50Year=6mth)												* by SandL * by Maker		Plan year : 2022 Revision: 00 (05-05-2022)												Year 2022 05 MAY 2022											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.																				
						Inspection stethoscope gear motor,bearing	0.08	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*	*																			
		Z11-7-A				Disassembly and inspection oil seal	12.00	2015	2027																																
		Z11-7-A				Change oil gear	0.25	Nov-21	2022	*				*				*		*		*																			
		Z11-7-A				Grease up bearing	0.25	Nov-21	2022	*				*				*		*		*																			
		Z11-7-A				Retiten lock nut lock washer M/S	0.50	Nov-21	2022					*							*	*																			
		Z11-7-A				Change gasket Baffle (left side)	1.50	8/2/2022	00/07/2023																																
		Z11-7-A				Change gasket Baffle (right side)	1.50	8/2/2022	00/07/2023																																
		Z11-7-A				Change gasket Manhold (frist flange)	1.50	8/2/2022	00/07/2023																																
		Z11-7-A				Change gasket Mech.box	2.00	27/5/2021	00/12/2022												*	*																			
		Z11-7-A				Change Mech.seal	2.00	27/5/2021	00/12/2022												*	*																			
		Z11-7-A				Overhaul Gear cyclone drive	10.00	Jan-20	2030																																
		Z11-7-A				Visual gasket baffle,manhole,MS,holding ring	1 week	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*	*																			
		Z11-7-A				Clening oil pot mechanical seal	1.00	2021	2022												*																				
136	Agitator	Z11-8-A	1012	Reactor Agitator (8)	3-paddles, 1-impeller	Inspection check run out	1.00	Nov-21	2022												*	*																			
		Z11-8-A				Inspection check vertical	1.00	Nov-21	2022												*	*																			
		Z11-8-A				Inspection stethoscope gear motor,bearing	0.08	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*	*																			
		Z11-8-A				Disassembly and inspection oil seal	12.00	2015	2027																																
		Z11-8-A				Change oil gear	0.25	Nov-21	2022					*				*		*		*																			
		Z11-8-A				Grease up bearing	0.25	Nov-21	2022					*				*		*		*																			
		Z11-8-A				Retiten lock nut lock washer M/S	0.50	Nov-21	2022					*							*	*																			
		Z11-8-A				Change gasket Baffle (left side)	1.50	28/04/2022	00/10/2023																																
		Z11-8-A				Change gasket Baffle (right side)	1.50	28/04/2022	00/10/2023																																
		Z11-8-A				Change gasket Manhold (frist flange)	1.50	28/04/2022	00/10/2023																																
		Z11-8-A				Change gasket Mech.box	2.00	Jan-22	00/07/2023																																
		Z11-8-A				Change Mech.seal	2.00	Jan-22	00/07/2023																																
		Z11-8-A				Overhaul Gear cyclone drive	10.00	Feb-18	2028																																
		Z11-8-A				Visual gasket baffle,manhole,MS,holding ring	1 week	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*	*																			
		Z11-8-A				Clening oil pot mechanical seal	1.00	2021	2022												*	*																			

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year: 2022 Revision: 00 (05-05-2022)		Year 2022 06 JUN 2022											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec		
137	Agitator	Z12-1-A	1015	Slurry Release Tank Agitator (1)	4-paddles, 2+1-impeller	Change oil gear	1.00	2021	2022												*		
		Z12-1-A				Grease up bearing	0.25	2021	2022	*		*		*			*				*		
		Z12-1-A				Change rubber coupling	1.00	Nov-21	2022												*		
		Z12-1-A				Overhaul Gear box and Change bearing shaft	5.00	2015	2022												*		
138	Agitator	Z12-2-A	1015	Slurry Release Tank Agitator (2)	4-paddles, 2+1-impeller	Change oil gear	1.00	2021	2022												*		
		Z12-2-A				Grease up bearing	0.25	2021	2022	*		*		*			*				*		
		Z12-2-A				Change rubber coupling	1.00	Nov-21	2022												*		
		Z12-2-A				Overhaul Gear box and Change bearing shaft	5.00	2015	2022												*		
139	Agitator	Z13-1-W	1016	Washed Slurry Dispersion Tank Agitator (1)	4-paddles, 1-impeller	Change oil gear	1.00	2021	2022												*		
		Z13-1-W				Grease up bearing	0.25	2021	2022	*		*		*			*				*		
		Z13-1-W				Change rubber coupling	1.00	Nov-21	2022												*		
		Z13-1-W				Overhaul Gear box and Change bearing shaft	5.00	2022	2027												*		
		Z13-1-W				Inspection bolt coupling and PT test	1.00	Nov-21	2022												*		
140	Agitator	Z13-2-W	1016	Washed Slurry Dispersion Tank Agitator (2)	4-paddles, 1-impeller	Change oil gear	1.00	2021	2022												*		
		Z13-2-W				Grease up bearing	0.25	2021	2022	*		*		*			*				*		
		Z13-2-W				Change rubber coupling	1.00	Nov-21	2022												*		
		Z13-2-W				Overhaul Gear box and Change bearing shaft	5.00	2015	2022												*		
		Z13-2-W				Inspection bolt coupling and PT test	1.00	Nov-21	2022												*		
141	Agitator	Z13-3-W	1016	Washed Slurry Dispersion Tank Agitator (3)	4-paddles, 1-impeller	Change oil gear	1.00	2021	2022												*		
		Z13-3-W				Grease up bearing	0.25	2021	2022	*		*		*			*				*		

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)										* by SandL * by Maker		Plan year 2022 Revision: 00 (05-05-2022)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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						Change rubber coupling	1.00	Nov-21	2022																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</

S and L Specialty Polymers Co.,Ltd			Equipment PM plan of 2022					* by SandL * by Maker		Plan year: 2022 Revision: 00 (05-05-2022)											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022											
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.
01 JUN 2022																					
152	Cooling Tower	C41-4-U	1025	Cooling Tower	Induce Draft Cross Flow	Change timeruning belt	1.00	2021	2022											*	
		C41-4-U				Check teamon belt	0.50	2021	2022				*							*	
		C41-4-U				High pressure jet Cleaning packing and change fine filtration	3.00	2021	2024											*	
153	Tank	V 11-1 A	1005	Tank reactor	Glass lining	Inspection glass lining (Thickness inspection)	1.00	Nov-21	2022											*	
		V 11-1 A				Inspection diaphragm valve CL H0527	1.00	Nov-21	2022											*	
		V 11-1 A				Inspection diaphragm valve CL H0528	1.00	Nov-21	2022											*	
		V 11-1 A				Inspection diaphragm valve CL H0596	1.00	Nov-21	2022											*	
		V 11-1 A				Inspection diaphragm valve CL H0529	1.00	Nov-21	2022											*	
		V 11-1 A				Inspection diaphragm valve CL H0530	1.00	Nov-21	2022											*	
		V 11-1 A				Inspection diaphragm valve CL H0531	1.00	Nov-21	2022											*	
		V 11-1 A				Inspection diaphragm valve CL H0532	1.00	Nov-21	2022											*	
		V 11-1 A				Inspection diaphragm valve CL H0533	1.00	Nov-21	2022											*	
		V 11-1 A				Recheck torque bolt diaphragm	0.50	Nov-21	2022				*							*	
		V 11-1 A				Change bolt diaphragm	1.00	Nov-21	2022											*	
		V 11-1 A				Recheck torque bolt gasket Holding ring	0.08	Nov-21	2022	*	*	*	*	*	*	*	*	*	*	*	*
		V 11-1 A				Recheck torque bolt gasket Bufile and Mech.seal	0.40	Nov-21	2022			*	*	*	*	*	*	*	*	*	*
		V 11-1 A				Temptransmitter inspection and x-ray welding	1.00	-	2022											*	*
154	Tank	V 11-2 A	1006	Tank reactor	Glass lining	Inspection glass lining (Thickness inspection)	1.00	Nov-21	2022											*	
		V 11-2 A				Inspection diaphragm valve CL H0627	1.00	Nov-21	2022											*	
		V 11-2 A				Inspection diaphragm valve CL H0628	1.00	Nov-21	2022											*	
		V 11-2 A				Inspection diaphragm valve CL H0696	1.00	Nov-21	2022											*	
		V 11-2 A				Inspection diaphragm valve CL H0629	1.00	Nov-21	2022											*	
		V 11-2 A				Inspection diaphragm valve CL H0630	1.00	Nov-21	2022											*	
		V 11-2 A				Inspection diaphragm valve CL H0631	1.00	Nov-21	2022											*	
		V 11-2 A				Inspection diaphragm valve CL H0632	1.00	Nov-21	2022											*	
		V 11-2 A				Inspection diaphragm valve CL H0633	1.00	Nov-21	2022											*	
		V 11-2 A				Recheck torque bolt diaphragm	0.50	Nov-21	2022				*							*	

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022				* by SandL * by Maker		Plan year: 2022											
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NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022											
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.
		V 11-4 A				Change bolt diaphragm	1.00	Nov-21	2022												*
		V 11-4 A				Recheck torque bolt gasket Holding ring	0.08	Nov-21	2022	*	*	*	*	*	*	*	*	*	*	*	*
		V 11-4 A				Recheck torque bolt gasket Bufile and Mech.seal	0.40	Nov-21	2022			*	*			*					*
		V 11-1 A				Tempransmitter inspection and x-ray welding	1.00	-	2022												*
157	Tank	V 11-5 A	1009	Tank reactor	Glass lining	Inspection glass lining (Thickness inspection)	1.00	Nov-21	2022												*
		V 11-5 A				Inspection diaphragm valve CL H0927	1.00	Nov-21	2022												*
		V 11-5 A				Inspection diaphragm valve CL H0928	1.00	Nov-21	2022												*
		V 11-5 A				Inspection diaphragm valve CL H0996	1.00	Nov-21	2022												*
		V 11-5 A				Inspection diaphragm valve CL H0929	1.00	Nov-21	2022												*
		V 11-5 A				Inspection diaphragm valve CL H0930	1.00	Nov-21	2022												*
		V 11-5 A				Inspection diaphragm valve CL H0931	1.00	Nov-21	2022												*
		V 11-5 A				Inspection diaphragm valve CL H0932	1.00	Nov-21	2022												*
		V 11-5 A				Inspection diaphragm valve CL H0933	1.00	Nov-21	2022												*
		V 11-5 A				Recheck torque bolt diaphragm	0.50	Nov-21	2022					*							
		V 11-5 A				Change bolt diaphragm	1.00	Nov-21	2022												*
		V 11-5 A				Recheck torque bolt gasket Holding ring	0.08	Nov-21	2022	*	*	*	*	*	*	*	*	*	*	*	*
		V 11-5 A				Recheck torque bolt gasket Bufile and Mech.seal	0.40	Nov-21	2022			*	*			*					*
		V 11-1 A				Tempransmitter inspection and x-ray welding	1.00	-	2022												*
158	Tank	V 11-6 A	1010	Tank reactor	Glass lining	Inspection glass lining (Thickness inspection)	1.00	Nov-21	2022												*
		V 11-6 A				Inspection diaphragm valve CL H1027	1.00	Nov-21	2022												*
		V 11-6 A				Inspection diaphragm valve CL H1028	1.00	Nov-21	2022												*
		V 11-6 A				Inspection diaphragm valve CL H1096	1.00	Nov-21	2022												*
		V 11-6 A				Inspection diaphragm valve CL H1029	1.00	Nov-21	2022												*
		V 11-6 A				Inspection diaphragm valve CL H1030	1.00	Nov-21	2022												*
		V 11-6 A				Inspection diaphragm valve CL H1031	1.00	Nov-21	2022												*
		V 11-6 A				Inspection diaphragm valve CL H1032	1.00	Nov-21	2022												*
		V 11-6 A				Inspection diaphragm valve CL H1033	1.00	Nov-21	2022												*
		V 11-6 A				Recheck torque bolt diaphragm	0.50	Nov-21	2022					*							

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				* by SandL * by Maker												01 JUN 2022																		
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022																								
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.													
		V 11-6 A				Change bolt diaphragm	1.00	Nov-21	2022																									
		V 11-6 A				Recheck torque bolt gasket Holding ring	0.08	Nov-21	2022																									
		V 11-6 A				Recheck torque bolt gasket Bufile and Mech.seal	0.40	Nov-21	2022																									
		V 11-1 A				Temptransmitter inspection and x-szy welding	1.00	-	2022																									
159	Tank	V 11-7 A	1011	Tank reactor	Glass lining	Inspection glass lining (Thickness inspection)	1.00	Nov-21	2022																									
		V 11-7 A				Inspection diaphragm valve CL H1127	1.00	Nov-21	2022																									
		V 11-7 A				Inspection diaphragm valve CL H1128	1.00	Nov-21	2022																									
		V 11-7 A				Inspection diaphragm valve CL H1196	1.00	Nov-21	2022																									
		V 11-7 A				Inspection diaphragm valve CL H1129	1.00	Nov-21	2022																									
		V 11-7 A				Inspection diaphragm valve CL H1130	1.00	Nov-21	2022																									
		V 11-7 A				Inspection diaphragm valve CL H1131	1.00	Nov-21	2022																									
		V 11-7 A				Inspection diaphragm valve CL H1132	1.00	Nov-21	2022																									
		V 11-7 A				Inspection diaphragm valve CL H1133	1.00	Nov-21	2022																									
		V 11-7 A				Recheck torque bolt diaphragm	0.50	Nov-21	2022						*																			
		V 11-7 A				Change bolt diaphragm	1.00	Nov-21	2022																									
		V 11-7 A				Recheck torque bolt gasket Holding ring	0.08	Nov-21	2022						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		V 11-7 A				Recheck torque bolt gasket Bufile and Mech.seal	0.40	Nov-21	2022						*																			
		V 11-1 A				Temptransmitter inspection and x-szy welding	1.00	-	2022																									
160	Tank	V 11-8 A	1012	Tank reactor	Glass lining	Inspection glass lining (Thickness inspection)	1.00	Nov-21	2022																									
		V 11-8 A				Inspection diaphragm valve CL H1227	1.00	Nov-21	2022																									
		V 11-8 A				Inspection diaphragm valve CL H1228	1.00	Nov-21	2022																									
		V 11-8 A				Inspection diaphragm valve CL H1296	1.00	Nov-21	2022																									
		V 11-8 A				Inspection diaphragm valve CL H1229	1.00	Nov-21	2022																									
		V 11-8 A				Inspection diaphragm valve CL H1230	1.00	Nov-21	2022																									
		V 11-8 A				Inspection diaphragm valve CL H1231	1.00	Nov-21	2022																									
		V 11-8 A				Inspection diaphragm valve CL H1232	1.00	Nov-21	2022																									
		V 11-8 A				Inspection diaphragm valve CL H1233	1.00	Nov-21	2022																									
		V 11-8 A				Recheck torque bolt diaphragm	0.50	Nov-21	2022						*																			

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NO.		Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022													
											Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.		
			V 11-8 A				Change bolt diaphragm	1.00	Nov-21	2022												*		
			V 11-8 A				Recheck torque bolt gasket Holding ring	0.08	Nov-21	2022		*	*	*	*	*	*	*	*	*	*	*		
			V 11-8 A				Recheck torque bolt gasket Bufile and Mech.seal	0.40	Nov-21	2022		*									*			
161	Tank		V 12-1 A	1015	Tank rlurry release	Rubber lining	Appearance check	10.00	2015	2025														
			V 12-1 A				Inspection rubber in tank by spark test	1.00	Nov-21	2022											*			
162	Tank		V 12-2 A	1015	Tank rlurry release	Rubber lining	Appearance check	10.00	2015	2025														
			V 12-2 A				Inspection rubber in tank by spark test	1.00	Nov-21	2022											*			
163	Tank		V 13-1 W	1016	Tank slurry dispersion	Stainless steel tank	Appearance check	10.00	2015	2025														
			V 13-1 W				Water jet cleaning	1.00	2021	2022											*			
164	Tank		V 13-2 W	1016	Tank slurry dispersion	Stainless steel tank	Appearance check	10.00	2015	2025														
			V 13-2 W				Water jet cleaning	1.00	2021	2022											*			
165	Tank		V 13-3 W	1016	Tank slurry dispersion	Stainless steel tank	Appearance check	10.00	2015	2025														
			V 13-3 W				Water jet cleaning	1.00	2021	2022											*			
166	Tank		V14-1-W	1022	Waste Water Cushion Tank (1)	HDPE tank	Appearance check	10.00	2019	2029														
			V14-1-W				Cleaning	10.00	2019	2029														
167	Tank		V14-2-W	1022	Waste Water Cushion Tank (2)	HDPE tank	Appearance check	10.00	2019	2029														

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year : 2022 Revision: 00 (05-05-2022)		Year 2022 05 MAY 2022											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.		
		V14-2-W				Cleaning	10.00	2019	2029														
168	Tank	V14-3-W	1022	Waste Water Cushion Tank (3)	HDPE tank	Appearance check	10.00	2019	2029														
		V14-3-W				Cleaning	10.00	2019	2029														
169	Tank	V14-4-W	1022	Waste Water Cushion Tank (4)	HDPE tank	Appearance check	10.00	2019	2029														
		V14-4-W				Cleaning	10.00	2019	2029														
170	Tank	V15-1-D	1017A	Slurry Tank for Drying (1)	Stainless steel tank	Appearance check	10.00	2015	2025														
		V15-1-D				Water jet cleaning	1.00	2021	2022											*			
171	Tank	V15-2-D	1018A	Slurry Tank for Drying (2)	Stainless steel tank	Appearance check	10.00	2015	2025														
		V15-2-D				Water jet cleaning	1.00	2021	2022											*			
172	Tank	V17-1-D	1017C	Sifter Outlet Receiver (1)	TP340	Appearance check	10.00	2015	2025														
173	Tank	V17-2-D	1018C	Sifter Outlet Receiver (2)	TP340	Appearance check	10.00	2015	2025														
174	Tank	V18-1-D	1017C	CPVC Transport Hopper (1)	TP340	Appearance check	10.00	2015	2025														
175	Tank	V18-2-D	1017C	CPVC Transport Hopper (2)	TP340	Appearance check	10.00	2015	2025														
176	Tank	V18-3-D	1018C	CPVC Transport Hopper (3)	TP340	Appearance check	10.00	2015	2025														
177	Tank	V18-4-D	1018C	CPVC Transport Hopper (4)	TP340	Appearance check	10.00	2015	2025														

S and L Specialty Polymers Co.,Ltd			Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year: 2022 Revision: 00 (05-05-2022)		Year 2022 05 MAY 2022											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.	
178	Tank	V19-1-D	1019	CPVC Silo (1)	Carbon steel + PVC lining	Appearance check	10.00	2015	2025													
		V19-1-D				Inspection PVC lining	10.00	2015	2025													
179	Tank	V19-2-D	1019	CPVC Silo (2)	Carbon steel + PVC lining	Appearance check	10.00	2015	2025													
		V19-2-D				Inspection PVC lining	10.00	2015	2025													
180	Tank	V19-3-D	1019	CPVC Silo (3)	Carbon steel + PVC lining	Appearance check	10.00	2015	2025													
		V19-3-D				Inspection PVC lining	10.00	2015	2025													
181	Tank	V19-4-D	1019	CPVC Silo (4)	Carbon steel + PVC lining	Appearance check	10.00	2015	2025													
		V19-4-D				Inspection PVC lining	10.00	2015	2025													
182	Tank	V22-A	1020	HCl Drain Tank	PE tank	Appearance check	10.00	2015	2025													
183	Tank	V23-A	1021	NaOH Dilution & Storage Tank	Stainless steel tank	Appearance check	10.00	2015	2025													
184	Tank	V24-1-A	1021	NaOH Circulation Tank (1)	PE tank	Appearance check	10.00	2015	2025													
185	Tank	V24-2-A	1021	NaOH Circulation Tank (2)	PE tank	Appearance check	10.00	2015	2025													
186	Tank	V25-A	1021	Waste NaOH Storage Tank	PE tank	Appearance check	10.00	2015	2025													
187	Tank	V26-N	1023A	Waste Water Neutralization Tank	Carbon steel + PVC lining	Appearance check	10.00	2015	2025													
		V26-N				Inspection PVC lining	10.00	2015	2025													

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S and L Specialty Polymers Co.,Ltd			Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year : 2022 Revision : 00 (05-05-2022)													
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022												
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec	
203	Tank	V47-U	1027	Compressed Air Receiver Tank	Carbon steel	Appearance check	10.00	2015	2025													
204	Tank	V48-1-U	1027B	Compressed Air Accumulator Tank for CPVC Transport (1)	Carbon steel	Appearance check	10.00	2015	2025													
205	Tank	V48-2-U	1027B	Compressed Air Accumulator Tank for CPVC Transport (2)	Carbon steel	Appearance check	10.00	2015	2025													
206	Tank	V48-3-U	1027B	Compressed Air Accumulator Tank for PVC Washing	Carbon steel	Appearance check	10.00	2015	2025													
207	Tank	V48-4-U	1027B	Compressed Air Accumulator Tank for PVC transport	Carbon steel	Appearance check	10.00	2015	2025													
208	Tank	V49-U	1024	Backwash Water Tank for Filtration Tower	PE tank	Appearance check	10.00	2015	2025													
209	Tank	V51-1-P	1002	PVC Transport Hopper (1)	Stainless steel tank	Appearance check	10.00	2015	2025													
210	Tank	V51-2-P	1002	PVC Transport Hopper (2)	Stainless steel tank	Appearance check	10.00	2015	2025													
211	Tank	V51-3-P	1002	PVC Transport Hopper (3)	Stainless steel tank	Appearance check	10.00	2015	2025													
212	Tank	V52-1-P	1003	PVC Silo (1)	Stainless steel tank	Appearance check	10.00	2015	2025													
213	Tank	V52-2-P	1003	PVC Silo (2)	Stainless steel tank	Appearance check	10.00	2015	2025													
214	Tank	V52-3-P	1003	PVC Silo (3)	Stainless steel tank	Appearance check	10.00	2015	2025													
215	Tank	V52-4-P	1003	PVC Silo (4)	Stainless steel tank	Appearance check	10.00	2015	2025													
216	Tank	V53-1-P	1002	PVC Loading Hopper (1)	Stainless steel tank	Appearance check	10.00	2015	2025													
217	Tank	V53-2-P	1002	PVC Loading Hopper (2)	Stainless steel tank	Appearance check	10.00	2015	2025													

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year : 2022 Revision : 00 (05-05-2022)		Year 2022 05 MAY 2022											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.		
218	Tank	V53-3-P	1002	PVC Loading Hopper (3)	Stainless steel tank	Appearance check	10.00	2015	2025														
219	Tank	V56-D	1019	Off-Spec Hopper	Carbon steel + PVC lining	Appearance check	10.00	2017	2027														
		V56-D				Inspection PVC lining	10.00	2017	2027														
		V56-D				Inspection Screw	1.00	2021	2022											*			
220	Tank	V57-D	1019	Off-Spec Transport Hopper	TP340	Appearance check	10.00	2015	2025														
221	Tank	V58-D	1018C	NaOH Dilution Tank	Stainless steel tank	Appearance check	10.00	2015	2025														
222	Tank	V80-U	1032	Water Storage Tank	PE tank	Appearance check	10.00	2015	2025														
223	Tank	V81-1-N	1022	HCl Neutralization Tank (1)	FRP	Appearance check	10.00	2019	2029														
224		V81-1-N				Inspection FRP lining	10.00	2019	2029														
225	Tank	V81-2-N	1022	HCl Neutralization Tank (2)	FRP	Appearance check	10.00	2019	2029														
		V81-2-N				Inspection FRP lining	10.00	2019	2029														
226	Tank	V83-N	1023A	HCl Storage Tank	PE tank	Appearance check	10.00	2015	2025														
227	Tank	V87-N	1023A	Waste Water Tank (High TDS)	PE tank	Appearance check	10.00	2015	2025														
228	Tank	V88-N	1023A	Waste Water Tank (Low TDS)	PE tank	Appearance check	10.00	2015	2025														

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NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.		
229	Tank	V89-N	1023A	Waste Water Inspection Tank	PE tank	Appearance check	10.00	2015	2025														
230	Tank	V92-N	1023	Waste Water Pit (Reactor House)	Concrete	Appearance check	10.00	2015	2025														
231	Tank	V93-N	1023	Waste Water Pit (Tank Yard)	concrete	Appearance check	10.00	2015	2025														
232	Emergency pool	V94-N	1023A	Emergency Pool	concrete	Appearance check	10.00	2015	2025														
233	Tank	V96-N	1023	Waste Water Pit (Drying & Ware House Yard)	Concrete+FRP lining	Appearance check	10.00	2017	2027														
		V96-N				Inspection FRP lining	10.00	2017	2027														
234	Tank	V97-N	1023	Waste Water Pit (Utility Yard)	concrete	Appearance check	10.00	2015	2025														
235	Tank	V98-N	1023	Waste Water Pit (Reslurry House)	concrete	Appearance check	10.00	2015	2025														
236	Tank	V99-N	1023	Waste Water Pit (Reactor House-Other)	concrete	Appearance check	10.00	2015	2025														
237	Tank	V100-1-U	1031	Sump Pit-1	concrete	Appearance check	10.00	2015	2025														
238	Tank	V100-2-U	1031	Sump Pit-2	concrete	Appearance check	10.00	2015	2025														
239	Tank	V100-3-U	1031	Sump Pit-3	concrete	Appearance check	10.00	2015	2025														

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NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022																									
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.														
247	Compressor	B47-5-U	1027	Screw Compressor	Air Compressor	PM package unit	0.25	2021	2022			*			*			*																	
		B47-5-U				Change Spare part	1.00	2021	2022													*													
		B47-5-U				Overhaul	5.00	2018	2024													*													
		B47-5-U				Cleaning suction filter	0.08	2021	2022	*	*	*	*	*	*	*	*	*	*	*	*	*													
248	Air Dryer	DR47-1-U	1027	Air Dryer	Air Dryer	PM package unit	0.25	2021	2022			*			*			*				*													
		DR47-1-U				Change filter	1.00	2021	2022			*																							
		DR47-1-U				Change spare part	3.00	2018	2023																										
		DR47-1-U				Change seal kit air cylinder	1.00	2021	2022													*													
249	Air Dryer	DR47-2-U	1027	Air Dryer	Air Dryer	PM package unit	0.25	2021	2022			*			*			*				*													
		DR47-2-U				Change spare part	1.00	2021	2022			*																							
		DR47-2-U				Change spare part	3.00	2018	2023																										
		DR47-2-U				Change seal kit air cylinder	1.00	2021	2022													*													
250	Air Dryer	DR47-3-U	1027	Air Dryer	Air Dryer	PM package unit	0.25	2021	2022			*			*			*				*													
		DR47-3-U				Change spare part	1.00	2021	2022			*																							
		DR47-3-U				Change spare part	3.00	2018	2023																										
		DR47-3-U				Change seal kit air cylinder	1.00	2021	2022													*													
251	Overhead crane	KZ14-D	Ware house 1	Hoist Mono rail	Overhead Crane 1.6 tons	PM package unit	0.25	2021	2022			*			*			*				*													
		KZ14-D				Loadtest	1.00	2021	2022					*																					
252	Overhead crane	KZ19-1-D	Ware house 1	Hoist Mono rail	Overhead Crane 2.0 tons	PM package unit	0.25	2021	2022			*			*			*				*													
		KZ19-1-D				Loadtest	1.00	2021	2022					*																					

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NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022												
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.	
253	Overhead crane	KZ19-2-D	Ware house 2	Hoist Mono rail	Overhead Crane 2.0 tons	PM package unit	0.25	2021	2022		*		*		*							
		KZ19-2-D				Loadtest	1.00	2021	2022				*									
254	Overhead crane	KZ19-3-D	Ware house 2	Hoist Mono rail	Overhead Crane 1.6 tons	PM package unit	0.25	2021	2022		*		*		*							
		KZ19-3-D				Loadtest	1.00	2021	2022				*		*							
255	Overhead crane	KZ19-4-D	Ware house 1	Hoist Mono rail	Overhead Crane 2.0 tons	PM package unit	0.25	2021	2022		*		*		*							
		KZ19-4-D				Loadtest	1.00	2021	2022				*		*							
256	Overhead crane	KZ11-1-P	Ware house 3	Hoist Mono rail	Overhead Crane 1.6 tons	PM package unit	0.25	2021	2022		*		*		*							
		KZ11-1-P				Loadtest	1.00	2021	2022				*		*							
257	Overhead crane	KZ11-2-P	Ware house 3	Hoist Mono rail	Overhead Crane 1.6 tons	PM package unit	0.25	2021	2022		*		*		*							
		KZ11-2-P				Loadtest	1.00	2021	2022				*		*							
258	Overhead crane	KZ12-P	Ware house 3	Hoist Mono rail	Overhead Crane 1.6 tons	PM package unit	0.25	2021	2022		*		*		*							
		KZ12-P				Loadtest	1.00	2021	2022				*		*							
259	Overhead crane	KZ16-1-A	Reactor house	Hoist Mono rail	Overhead Crane 3.0 tons	PM package unit	0.25	2021	2022		*		*		*							
		KZ16-1-A				Loadtest	1.00	2021	2022				*		*							
260	Overhead crane	KZ16-2-A	Reactor house	Hoist Mono rail	Overhead Crane 3.0 tons	PM package unit	0.25	2021	2022		*		*		*							
		KZ16-2-A				Loadtest	1.00	2021	2022				*		*							

S and L Specialty Polymers Co.,Ltd				Equipment PM plan of 2022 (0.25year=3mth, 0.33year=4mth, 0.50year=6mth)				* by SandL * by Maker		Plan year: 2022	Revision: 00 (05-05-2022)											
NO.	Equipment	Tag No.	P&ID No.	Name	Type/Model	Detail	Period (year)	Last service (year)	Next service (year)	Year 2022												
										Jan.	Feb.	Mar.	Apr.	May	Jun	July	Aug.	Sep.	Oct.	Nov.	Dec.	
261	Overhead crane	KZ15-1-A	Reslurry house	Hoist Mono rail	Overhead Crane 2 tons	PM package unit	0.25	2021	2022		*		*		*		*				*	
		KZ15-1-A				Loadtest	1.00	2021	2022					*								
262	Overhead crane	KZ15-2-A	Reslurry house	Hoist Mono rail	Overhead Crane 2 tons	PM package unit	0.25	2021	2022		*		*		*		*				*	
		KZ15-2-A				Loadtest	1.00	2021	2022					*		*						
263	Overhead crane	KZ13-A	V37 A	Hoist Mono rail	Overhead Crane 1.6 tons	PM package unit	0.25	2021	2022		*		*		*		*				*	
		KZ13-A				Loadtest	1.00	2021	2022					*		*						
264	CL2 piping	CL2 piping	CL2 line	CL2 piping	CS and PTFE lining	Thickness inspection	1.00	2021	2022				*									
265	Bag Filter	S53-P	1002	Bag filter for PVC loading	4,348m3/hr Casing SUS304	Visual Inspection	1.00	2020	2021											*		
266	Bag Filter	S52-1-P	1003	Bag filter for PVC Silo	4,000m3/hr Casing SUS304	Visual Inspection	1.00	2021	2022											*		
267	Bag Filter	S52-2-P	1003	Bag filter for PVC Silo	4,000m3/hr Casing SUS304	Visual Inspection	1.00	2021	2022											*		
268	Bag Filter	S52-3-P	1003	Bag filter for PVC Silo	4,000m3/hr Casing SUS304	Visual Inspection	1.00	2021	2022											*		
269	Bag Filter	S52-4-P	1003	Bag filter for PVC Silo	4,000m3/hr Casing SUS304	Visual Inspection	1.00	2021	2022											*		
270	Bag Filter	S31-1-P	1004	Bag filter for PVC Weighing Hopper	1,300Nm3/hr Casing SUS304 PE	Visual Inspection	1.00	2021	2022											*		
271	Bag Filter	S31-2-P	1004	Bag filter for PVC Weighing Hopper	1,300Nm3/hr Casing SUS304 PE	Visual Inspection	1.00	2021	2022											*		

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272	Bag Filter	S56-D	1019	Bag filter for off spec Hopper	480Nm3/hr Casing TP340	Visual Inspection	1.00	2021	2022												*
273	Bag Filter	S55-D	1019	Bag filter for Truck loading	1,800Nm3/hr Casing SUS304	Visual Inspection	1.00	2021	2022												*
274	Bag Filter	S19-1-D	1019	Bag filter for CPVC Silo	480Nm3/hr Casing TP340	Visual Inspection	1.00	2021	2022												*
275	Bag Filter	S19-2-D	1019	Bag filter for CPVC Silo	480Nm3/hr Casing TP340	Visual Inspection	1.00	2021	2022												*
276	Bag Filter	S19-3-D	1019	Bag filter for CPVC Silo	480Nm3/hr Casing TP340	Visual Inspection	1.00	2021	2022												*
277	Bag Filter	S19-4-D	1019	Bag filter for CPVC Silo	480Nm3/hr Casing TP340	Visual Inspection	1.00	2021	2022												*
278	Mist separator	S32-1-D	1017	Mist separator	TMC-S-600	Visual Inspection	1.00	2021	2022												*
		S32-1-D				Cleaning by water	3.00	2021	2024												
279	Mist separator	S32-2-D	1018	Mist separator	TMC-S-600	Visual Inspection	1.00	2021	2022												*
		S32-2-D				Cleaning by water	3.00	2021	2024												
280	Pressure control valve	PCV-332	1026	Control valve Steam line at back site Reactor house	-	Calibration set point 1.50 > 1.10 (MPaG)	1.00	2021	2022												*
281	Pressure control valve	PCV-333	1026	Control valve Steam line at back site Reactor house	-	Calibration set point 1.10 > 0.80 (MPaG)	1.00	2021	2022												*
282	Pressure control valve	PCV-334	1026	Control valve Steam line at back site Reactor house	-	Calibration set point 0.80 > 0.40 (MPaG)	1.00	2021	2022												*
283	Pressure Safety valve	SV-332	1026	Safety valve Steam line at back site Reactor house	-	Calibration set point 1.20 (MPaG)	1.00	2021	2022												*
284	Pressure Safety valve	SV-333	1026	Safety valve Steam line at back site Reactor house	-	Calibration set point 0.70 (MPaG)	1.00	2021	2022												*
285	Pressure Safety valve	SV-334	1026	Safety valve Steam line at back site Reactor house	-	Calibration set point 0.96 (MPaG)	1.00	2021	2022												*

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286	Pressure Safety valve	SV-011	1002	Safety valve PVC hopper at Reslurry house	-	Calibration set point 0.30 (MPaG)	5.00	N/A	2024																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

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301	Pressure Safety valve	SV-113	1013	Safety valve BQ line at P35-3-A 2nd floor Reactor house	-	Calibration set point 0.78 (MPaG)	2.00	2020	2022												
302	Pressure Safety valve	SV-114	1013	Safety valve BQ line at P35-4-A 2nd floor Reactor house	-	Calibration set point 0.78 (MPaG)	2.00	2020	2022												
303	Pressure Safety valve	SV-115	1013	Safety valve BQ line at P35-5-A 2nd floor Reactor house	-	Calibration set point 0.78 (MPaG)	2.00	2020	2022												
304	Pressure Safety valve	SV-116	1013	Safety valve BQ line at P35-6-A 2nd floor Reactor house	-	Calibration set point 0.78 (MPaG)	2.00	2020	2022												
305	Pressure Safety valve	SV-117	1013	Safety valve BQ line at P35-7-A 2nd floor Reactor house	-	Calibration set point 0.78 (MPaG)	2.00	2020	2022												
306	Pressure Safety valve	SV-118	1013	Safety valve BQ line at P35-8-A 2nd floor Reactor house	-	Calibration set point 0.78 (MPaG)	2.00	2020	2022												
307	Pressure Safety valve	SV-131	1014	Safety valve CS line (Na2SO3) at P37-1-A Tank yard	-	Calibration set point 0.78 (MPaG)	3.00	2021	2024											*	
308	Pressure Safety valve	SV-132	1014	Safety valve CS line (Na2SO3) at P37-2-A Tank yard	-	Calibration set point 0.78 (MPaG)	3.00	2021	2024											*	
309	Pressure Safety valve	SV-161	1016	Safety valve Air line at Washing tower	-	Calibration set point 0.56 (MPaG)	3.00	N/A	2022												
310	Pressure Safety valve	SV-162	1016	Safety valve Air line at Washing tower	-	Calibration set point 0.56 (MPaG)	3.00	N/A	2022												
311	Pressure Safety valve	SV-163	1016	Safety valve Air line at Washing tower	-	Calibration set point 0.56 (MPaG)	3.00	N/A	2022												
312	Pressure Safety valve	SV-164	1016	Safety valve Air line at Washing tower	-	Calibration set point 0.56 (MPaG)	3.00	N/A	2022												
313	Pressure Safety valve	SV-201	1017C	Safety valve CPVC hopper at V18-1-D Dryer house	-	Calibration set point 0.49 (MPaG)	2.00	2021	2023											*	
314	Pressure Safety valve	SV-203	1017C	Safety valve CPVC hopper at V18-2-D Dryer house	-	Calibration set point 0.49 (MPaG)	2.00	2021	2023											*	
315	Pressure Safety valve	SV-181	1018C	Safety valve CPVC hopper at V18-3-D Dryer house	-	Calibration set point 0.49 (MPaG)	2.00	2021	2023											*	

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316	Pressure Safety valve	SV-183	1018C	Safety valve CPVC hopper at V18-4-D Dryer house	-	Calibration set point 0.49 (MPaG)	2.00	2021	2023												*
317	Pressure Safety valve	SV-221	1019	Safety valve off spec hopper at V57-D Werchouse No.1	-	Calibration set point 0.49 (MPaG)	2.00	2021	2023												*
318	Pressure Safety valve	SV-242	1021	Safety valve NaOH line at P23-A Tank yard	-	Calibration set point 0.30 (MPaG)	5.00	N/A	2024												
319	Pressure Safety valve	SV-243	1021	Safety valve NaOH line at P86-A Tank yard	-	Calibration set point 0.33 (MPaG)	5.00	N/A	2024												
340	Pressure Safety valve	SV-306	1024A	Safety valve FW line at Sand filter S41-1-U	-	Calibration set point 0.35 (MPaG)	5.00	N/A	2024												
341	Pressure Safety valve	SV-307	1024A	Safety valve FW line at Sand filter S41-2-U	-	Calibration set point 0.35 (MPaG)	5.00	N/A	2024												
342	Pressure Safety valve	SV-308	1024A	Safety valve FW line at Sand filter S41-3-U	-	Calibration set point 0.35 (MPaG)	5.00	N/A	2024												
343	Pressure Safety valve	SV-309	1024A	Safety valve PAC line at Sand filter	-	Calibration set point 0.6 (MPaG)	N/A	N/A	N/A												
344	Pressure Safety valve	SV-301	1024	Safety valve FW line at Pump P65-1,2-A	-	Calibration set point 0.53 (MPaG)	5.00	2020	2025												
345	Pressure Safety valve	SV-351	1025B	Safety valve H2SO4 line at Dosing for Cooling tower	-	Calibration set point 0.3 (MPaG)	5.00	N/A	2023												
346	Pressure Safety valve	SV-352	1025B	Safety valve Protect corrosion and scale solvent line	-	Calibration set point 0.3 (MPaG)	5.00	N/A	2023												
347	Pressure Safety valve	SV-353	1025B	Safety valve NaOCl line at Dosing for Cooling tower	-	Calibration set point 0.3 (MPaG)	5.00	N/A	2023												
348	Pressure Safety valve	SV-342	1027B	Safety valve Air for cPVC transport at V48-1-U for V18-1,2-D	-	Calibration set point 1.3 (MPaG)	5.00	2020	2025												
349	Pressure Safety valve	SV-343	1027B	Safety valve Air line for cPVC transport	-	Calibration set point 1.3 (MPaG)	5.00	2020	2025												
350	Pressure Safety valve	SV-344	1027B	Safety valve Air line for cPVC transport	-	Calibration set point 1.3 (MPaG)	5.00	2020	2025												

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351	Pressure Safety valve	SV-345	1027B	Safety valve Air line for ePVC transport	-	Calibration set point 1.3 (MPaG)	5.00	2020	2025													
352	Pressure Safety valve	SV-341	1027	Safety valve Air receiver tank	-	Calibration set point 1.3 (MPaG)	1.00	2020	2025													
353	Pressure Safety valve	SV-302	1028	Safety valve FW line	-	Calibration set point 1.1 (MPaG)	5.00	2021	2026											*		
354	Pressure Safety valve	SV-303	1028	Safety valve FW line	-	Calibration set point 1.1(MPaG)	5.00	2021	2026											*		
355	Pressure Safety valve	SV-304	1028	Safety valve FW line	-	Calibration set point 1.1 (MPaG)	5.00	2021	2026											*		
356	Pressure Safety valve	SV-305	1028	Safety valve FW line	-	Calibration set point 1.1 (MPaG)	5.00	2021	2026											*		
357	Pressure Safety valve	SV-501	1034	Safety valve FF line	-	Calibration set point 0.69 (MPaG)	3.00	2020	2023													
358	Pressure Safety valve	SV-502	1034	Safety valve FF line	-	Calibration set point 0.69 (MPaG)	3.00	2020	2023													
359	Pressure Safety valve	SV-503	1034	Safety valve FF line	-	Calibration set point 1.00 (MPaG)	3.00	2020	2023													
360	Pressure Safety valve	SV-241	1021	Safety valve Air line	-	Calibration set point 0.07 (MPaG)	5.00	N/A	2022													
361	Pressure Safety valve	SV-242	1022	Safety valve Air line	-	Calibration set point 0.07 (MPaG)	5.00	N/A	2022													
362	Pressure Safety valve	SV-401	1018C	Safety valve NaOH line	-	Calibration set point 0.50 (MPaG)	5.00	N/A	2022													
363	Pressure Safety valve	SV-402	1018C	Safety valve NaOH line	-	Calibration set point 0.50 (MPaG)	5.00	N/A	2022													
364	Pressure Safety valve	SV-021	1004	Safety valve Vacuum line	-	Calibration set point 0.045 (MPaG)	1.00	2021	2022											*		
365	Pressure Safety valve	SV-022	1004	Safety valve Vacuum line	-	Calibration set point 0.045 (MPaG)	1.00	2021	2022											*		

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366	Pump	P81-3-N	1022	HCl Neutralization Circulation Pump (3)	Centrifugal pump	inspection coupling	3.00	New Y20	2023												
		P81-3-N				Check temp pump and motor	0.25	2021	2022		*		*				*		*		
		P81-3-N				recheck alignment	3.00	New Y20	2023												
		P81-3-N				Change oil bearing	1.00	2021	2022											*	
		P81-3-N				Over haul pump	5.00	New 2020	2025												
367	Tank	V81-3-N	1022	HCl Neutralization Tank (3)	FRP	Appearance check	10.00	New Y20	2030												
		V81-3-N				Inspection FRP lining	10.00	New Y20	2030												
368	Blower	B27-2-N	1021	Tank Agitation Blower	Roots blower	recheck alignment and check tensionbelt	1.00	2021	2022											*	
		B27-2-N				inspection Pulley	1.00	2021	2022											*	
		B27-2-N				Change v-belt	1.00	2021	2022											*	
		B27-2-N				Change oil gear	1.00	2021	2022											*	
		B27-2-N				Check temp pump and motor	0.25	2021	2022		*		*			*	*	*	*	*	*
		B27-2-N				Grease up bearing	0.25	2021	2022		*		*			*	*	*	*	*	*
		B27-2-N				Overhaul blower	6.00	New 2017	2023												
369	Pump	C43-P01-1-U	1025B	Solenoid Driven diaphragm Pump	diaphragm Pump	General Inspection and check condition	0.25	2021	2022		*		*			*	*	*	*	*	*
370	Pump	C43-P01-2-U	1025B	Solenoid Driven diaphragm Pump	diaphragm Pump	General Inspection and check condition	0.25	2021	2022		*		*			*	*	*	*	*	*
371	Pump	C43-P02-1-U	1025B	Solenoid Driven diaphragm Pump	diaphragm Pump	General Inspection and check condition	0.25	2021	2022		*		*			*	*	*	*	*	*
372	Pump	C43-P02-2-U	1025B	Solenoid Driven diaphragm Pump	diaphragm Pump	General Inspection and check condition	0.25	2021	2022		*		*			*	*	*	*	*	*

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373	Pump	C43-P03-1-U	1025B	Solenoid Driven diaphragm Pump	diaphragm Pump	General Inspection and check condition	0.25	2021	2022	*		*		*		*			*				
374	Pump	C43-P03-2-U	1025B	Solenoid Driven diaphragm Pump	diaphragm Pump	General Inspection and check condition	0.25	2021	2022	*		*		*		*			*				
375	Blower	B55-D	1019	Blower for Truck Loading	Turbo blower	recheck alignment and check tensionbelt inspection Pulley Change v-belt	1.00 1.00 1.00	2021 2021 2021	2022 2022 2022										*				
		B55-D				Check temp bearing and motor bearing	0.25	2021	2022	*		*		*		*			*				
		B55-D				Grease up bearing	0.25	2021	2022	*		*		*		*			*				
		B55-D				Overhaul blower	6.00	2020	2026														
376	Valve	All	All	Manual Valve	Manual Valve All Plant	Function test	1.00	2021	2022										*				
377	line discharge slurry to E11	line discharge	line discharge	Piping	Lining	Change Tee way 3"	2.00	2021	2023										*				
					Lining	Change Elbow 3"	2.00	2021	2023										*				
					</																		