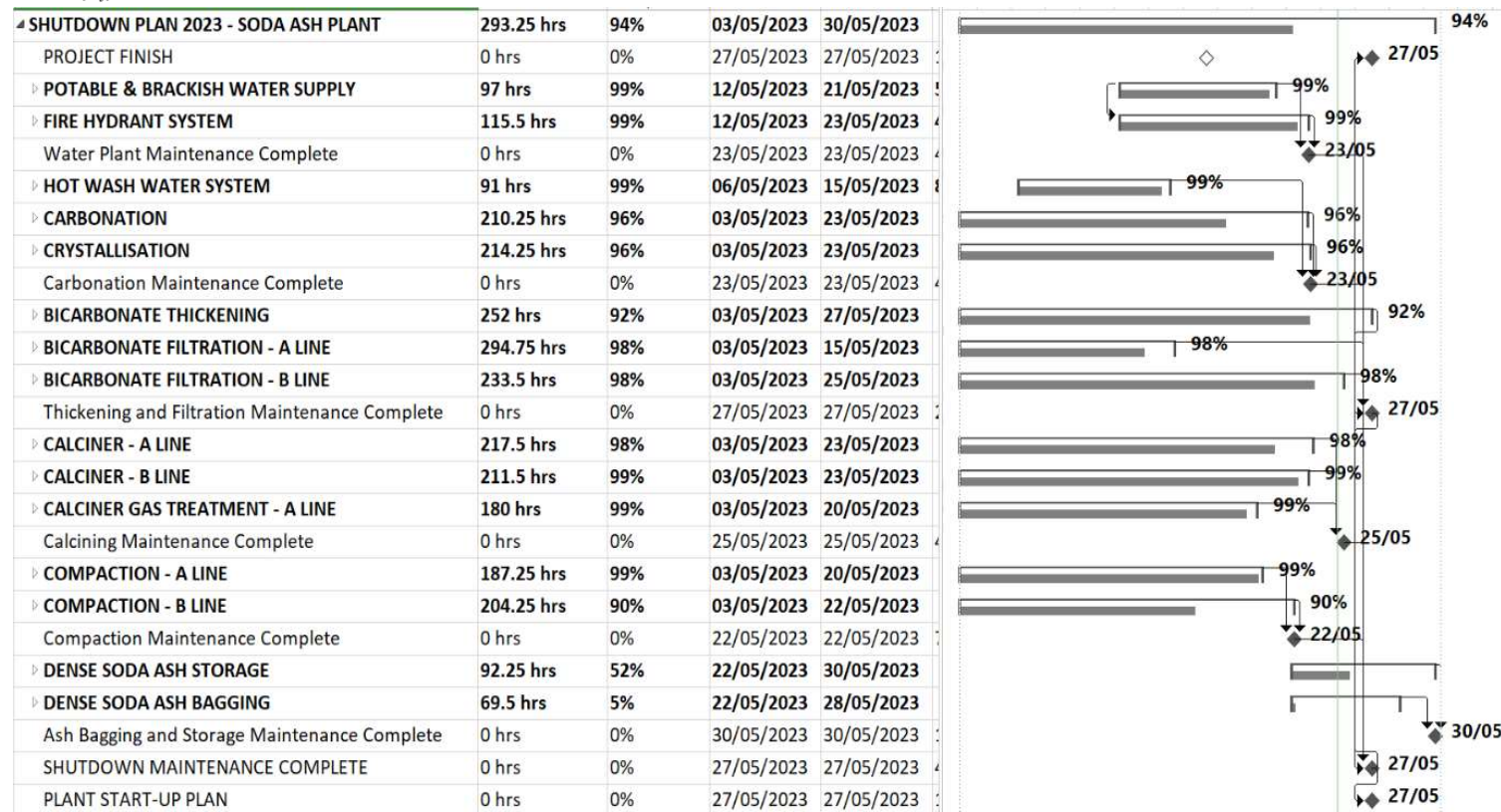


SODA ASH PLANT DASHBOARD

Botswana Ash (Pty) Ltd

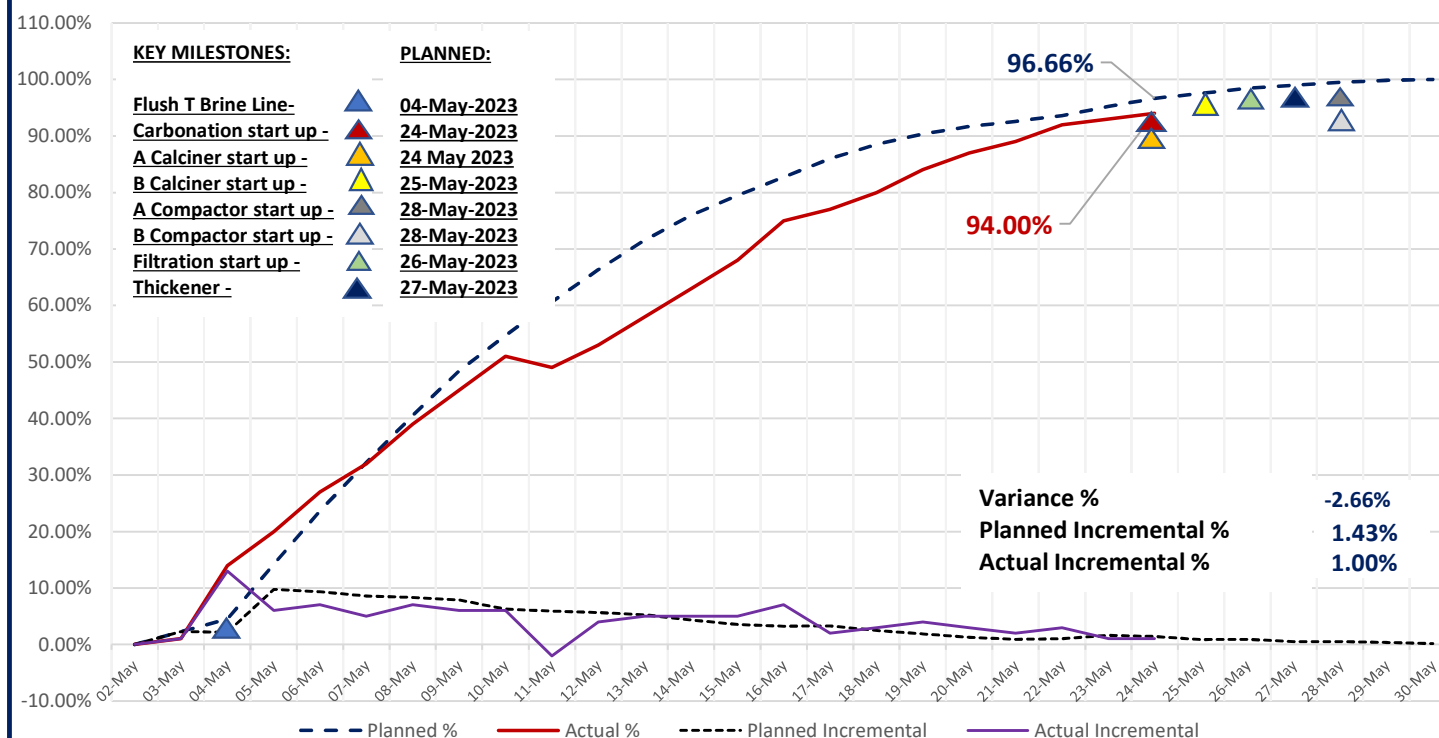


SODA ASH PLANT KEY MILESTONES	PLANNED	FORECAST	Variance	DAYS TO COMPLETION	TOP 5 RISKS	
CARBONATION	23-May-23	26-May-23	-3.49	3	1) B Compactor gearbox repairs	
BICARBONATE THICKENING	27-May-23	28-May-23	-1.00		2) Sand Filter repairs	
BICARBONATE FILTRATION - A LINE	15-May-23	25-May-23	-10.01		3) Thickener concrete repairs	
CALCINER - B LINE	23-May-23	26-May-23	-2.58		4) A Calciner paddle repairs	
COMPACTION - A LINE	20-May-23	26-May-23	-5.50		5) Possible rework	
Soda Ash Plant operational	30-May-23	28-May-23	1.89			
PLANT SUB-AREA:	Planned	Actual	Variance	Planned % Increment	Actual % Increment	Risk
SHUTDOWN 2023 - SODA ASH	96.66%	94.00%	-2.66%	1.43%	1.00%	
POTABLE & BRACKISH WATER SUPPLY	100.00%	99.00%	-1.00%	0.00%	1.00%	
FIRE HYDRANT SYSTEM	100.00%	99.00%	-1.00%	0.00%	0.00%	
HOT WASH WATER SYSTEM	100.00%	99.00%	-1.00%	0.00%	0.00%	
CARBONATION	100.00%	96.00%	-4.00%	0.00%	2.00%	
CRYSTALLISATION	100.00%	96.00%	-4.00%	0.00%	0.00%	
BICARBONATE THICKENING	97.82%	92.00%	-5.82%	2.38%	1.00%	
BICARBONATE FILTRATION - A LINE	100.00%	98.00%	-2.00%	0.00%	0.00%	
BICARBONATE FILTRATION - B LINE	99.78%	98.00%	-1.78%	0.93%	4.00%	
CALCINER - A LINE	100.00%	98.00%	-2.00%	0.00%	0.00%	
CALCINER - B LINE	100.00%	99.00%	-1.00%	0.00%	0.00%	
CALCINER GAS TREATMENT - A LINE	100.00%	99.00%	-1.00%	0.00%	4.00%	
CALCINER GAS TREATMENT - B LINE	98.90%	99.00%	0.10%	7.73%	3.00%	
COMPACTION - A LINE	100.00%	99.00%	-1.00%	0.00%	0.00%	
COMPACTION - B LINE	100.00%	90.00%	-10.00%	0.00%	1.00%	
DENSE SODA ASH STORAGE	0.00%	51.00%	51.00%	0.00%	7.00%	
DENSE SODA ASH BAGGING	0.00%	5.00%	5.00%	0.00%	5.00%	



BOTSWANA BOTASH REFURBISHMENT PROJECT 2023 - SODA ASH

PLANT :- 24-May-2023

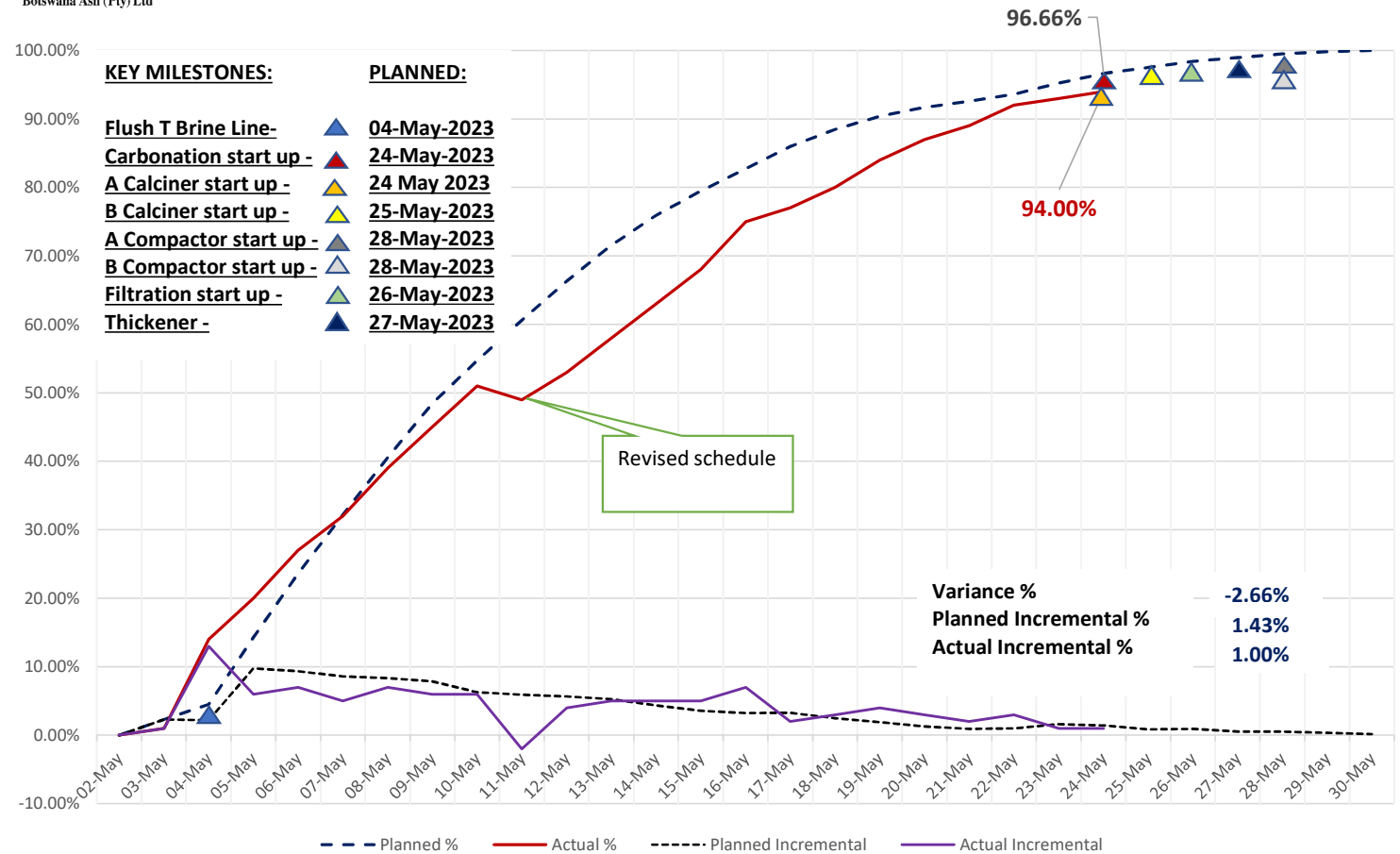


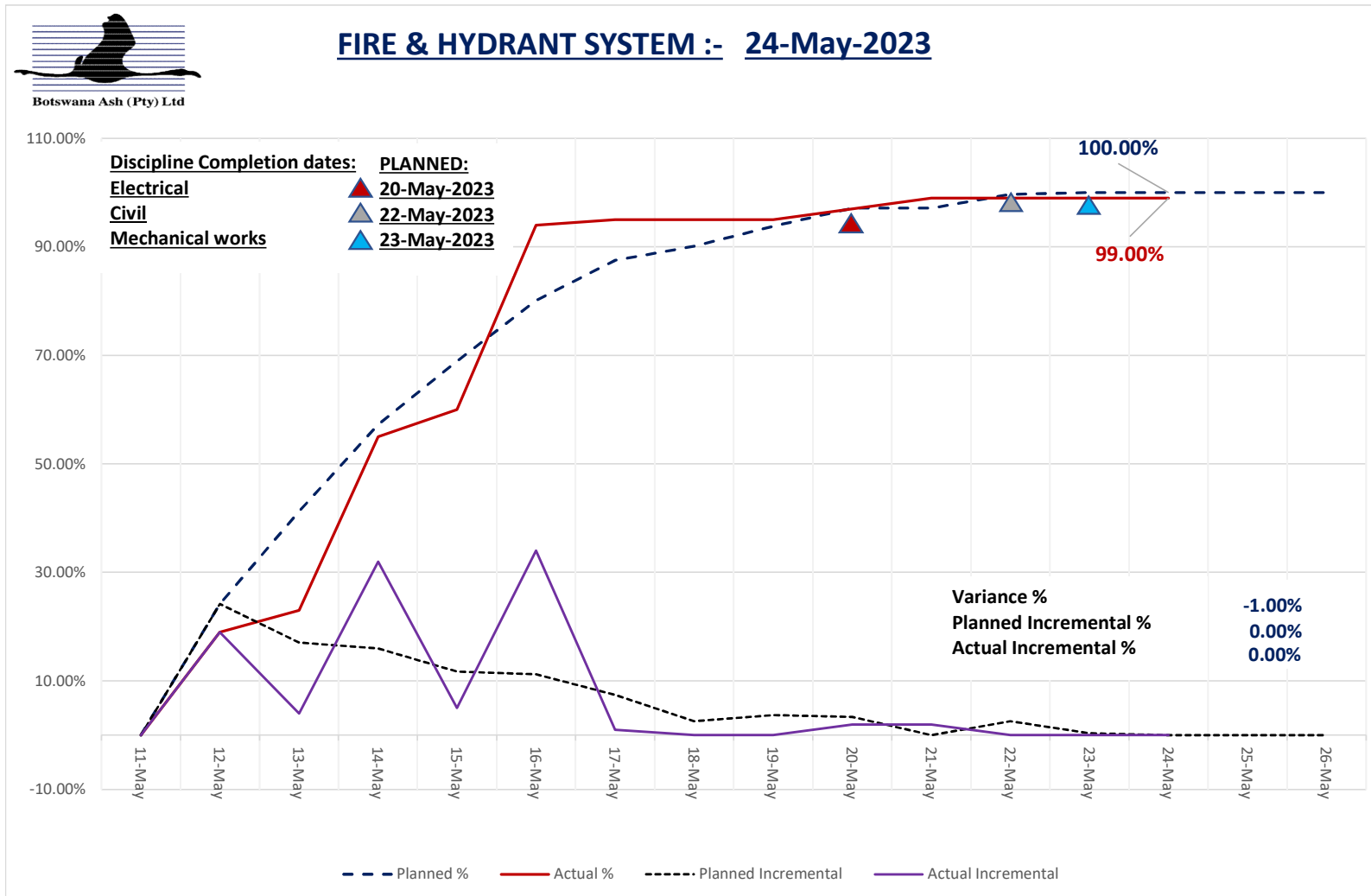
LOOK AHEAD SCOPE OF WORKS (L/L)	POSSIBLE RISKS	MITIGATIONS ON RISKS
BRACKISH PUMP STATION - Replace Generator		
SAND FILTERS - Remove rubberlining then glasscoat tank		
PRE CARBONATOR GEARBOX AGITATOR - Carry Out Inspection		
SECONDARY CARBONATOR - Agitator shaft and steady rest assembly replacement		
# 3 CRYSTALLISER FEEDPUMP B - Overhaul Pump		
# 7 HEAT EXCHANGER - Inspect & Replace Deffective Gaskets and plates	Overshooting	Working extended hours
THICKENING MAIN GEAR - Clean Out And Inspect The Main Gear	Tier works	Consolidated Plan & HIRA
THICKENER WALLS AND LAUNDER REPAIRS	Tier works	Consolidated Plan & HIRA
THICKENER LAUNDER - Install wash water pipes	Tier works	Consolidated Plan & HIRA
THICKENER RAKE - Service Hydraulic Unit	Tier works	Consolidated Plan & HIRA
BITTERNS PUMP B - Replace pump		
BITTERNS PUMP A - Replace suction pipes and install suction bellow		
BITTERNS PUMPS - Install Bitterns Make up Pipe		
# B BELT FILTER - Remove the whole ripple skirting		
# A CALCINER - Repair Trunnion Roller guards		
# A SCRUBBER CONDENSATE COOLER - Clean Cooler & inspect		
# B COMPACTOR GEARBOX - Send for bearing landings corrections		
CRUSHER - Modify all crusher frames covers & guards		
# B FEED HOPPER WITH STIRRERS - Overhaul And Repair Base Plates		
DENSE SODA ASH STORAGE		
DENSE SODA ASH BAGGING		



BOTSWANA BOTASH REFURBISHMENT PROJECT 2023 - SODA ASH PLANT

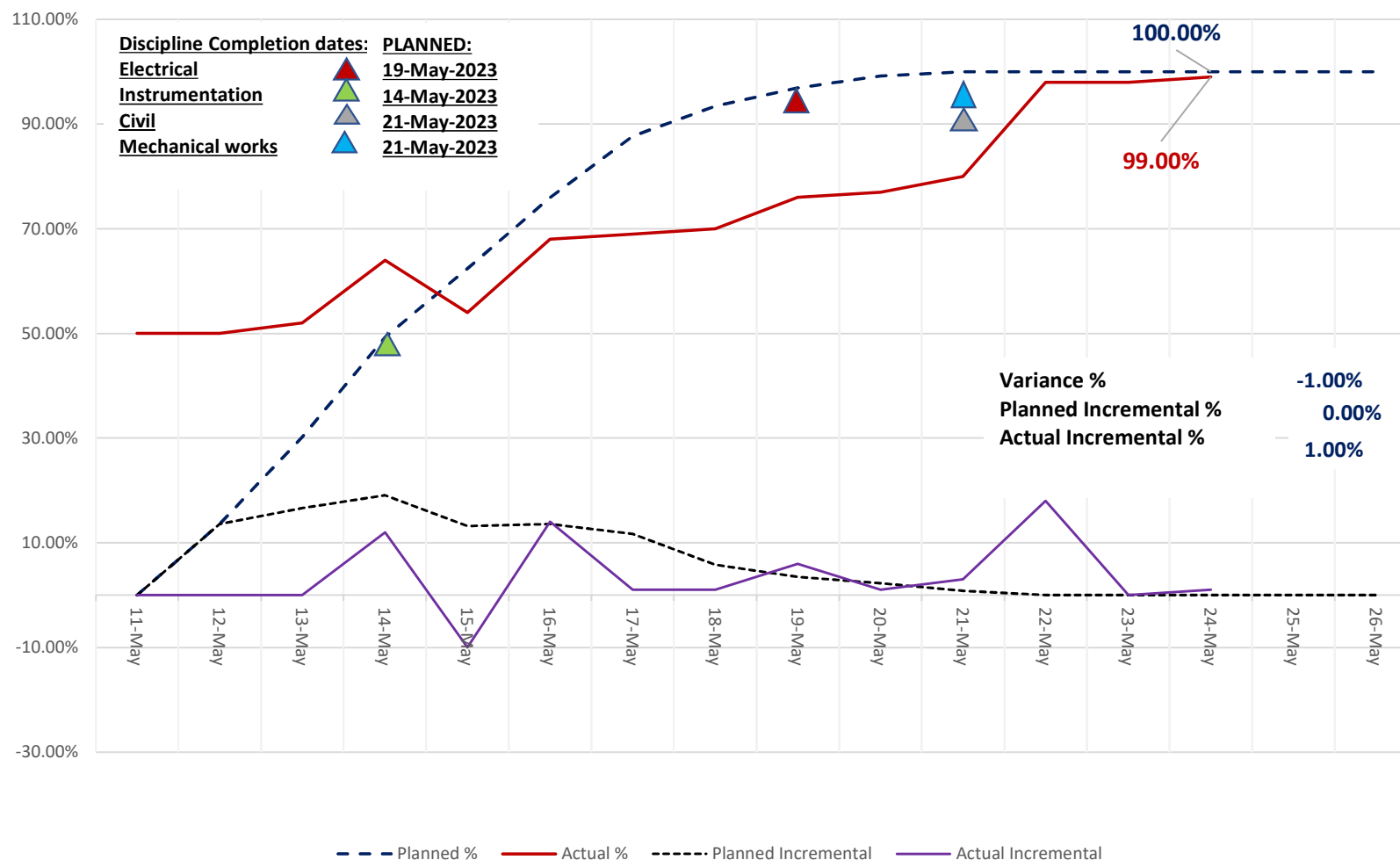
:- **24-May-2023**





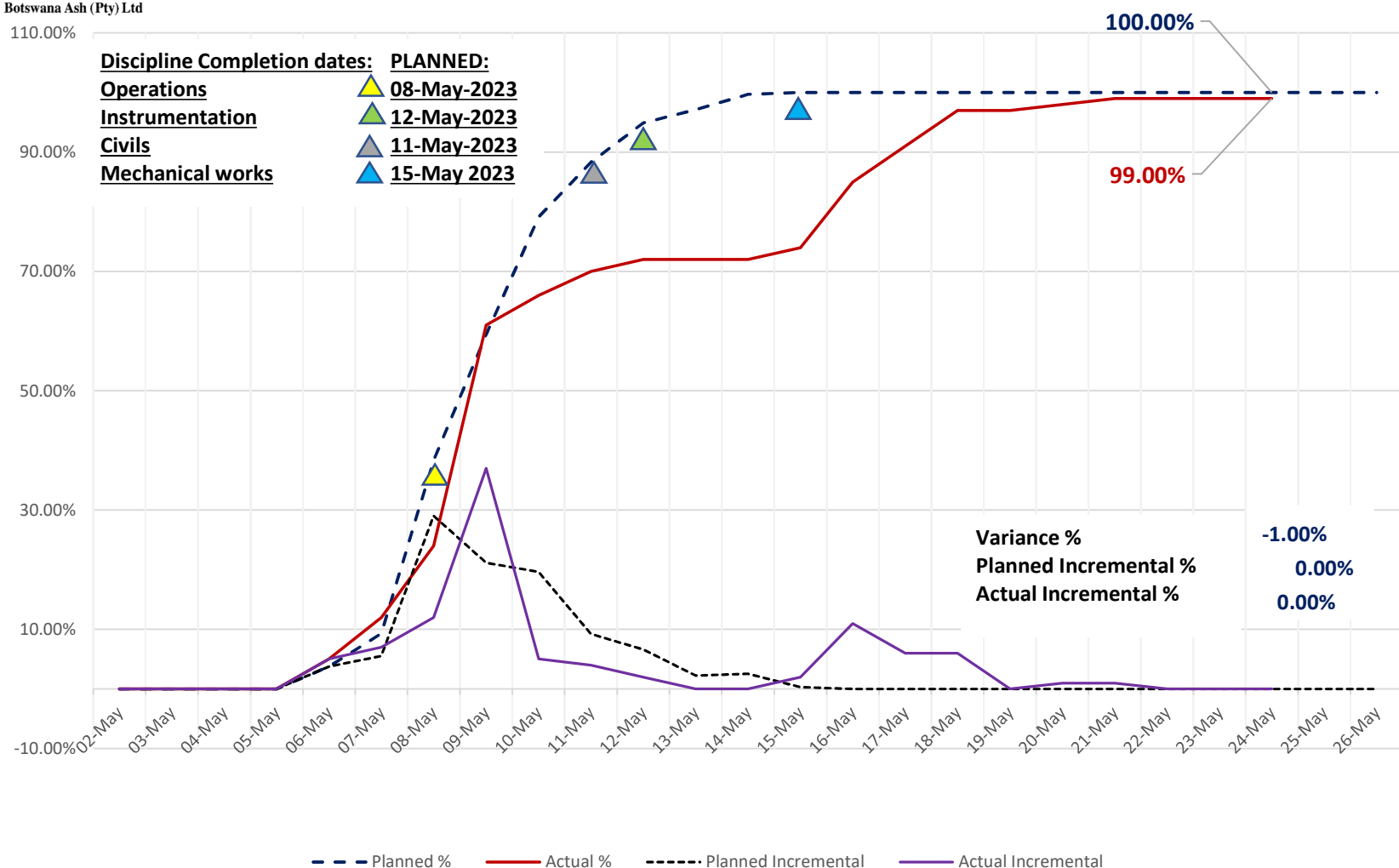


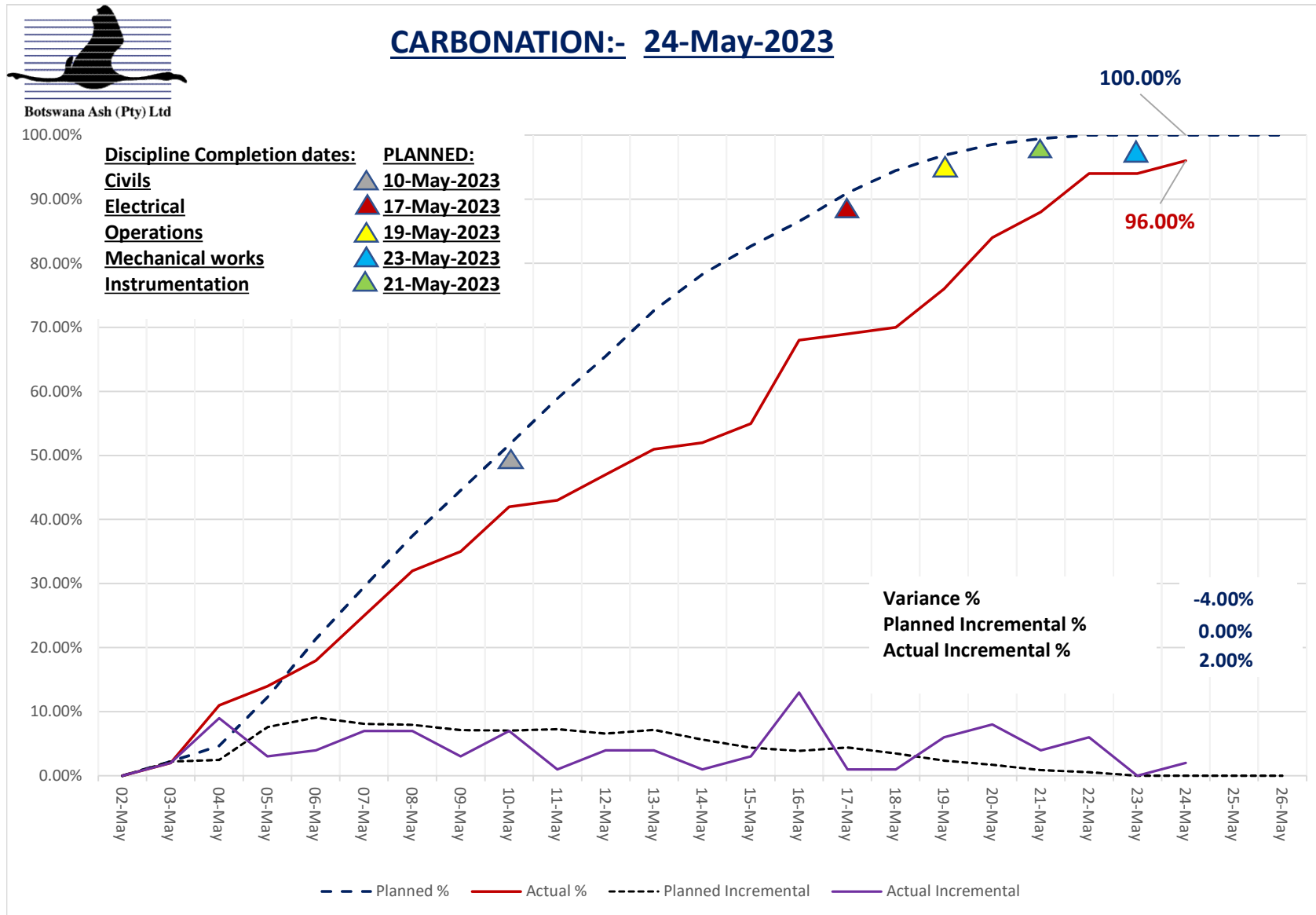
POTABLE & BRACKISH WATER:- 24-May-2023





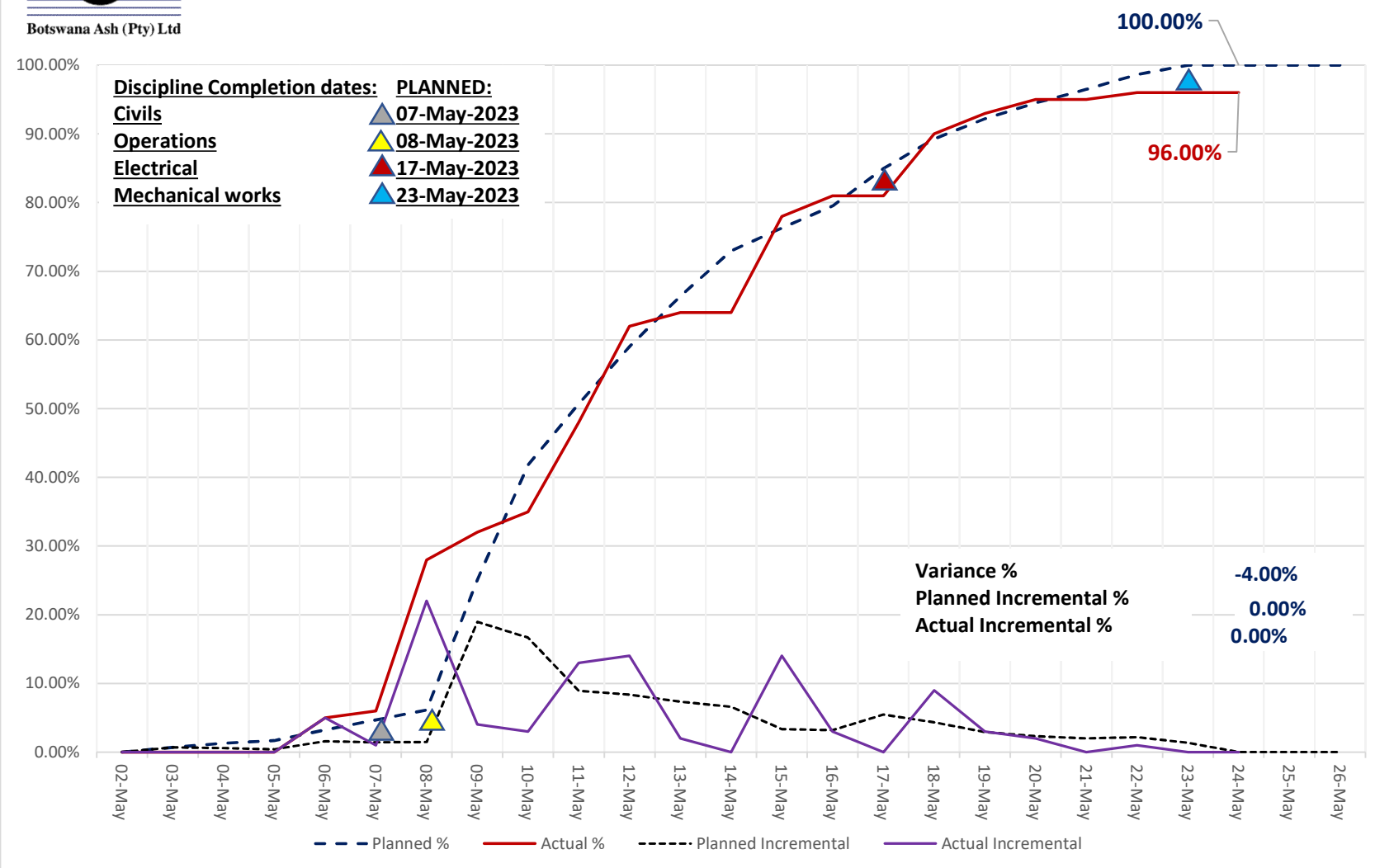
HOT WASH WATER SYSTEM:- 24-May-2023







CRYSTALLISATION:- 24-May-2023



Discipline Completion dates:

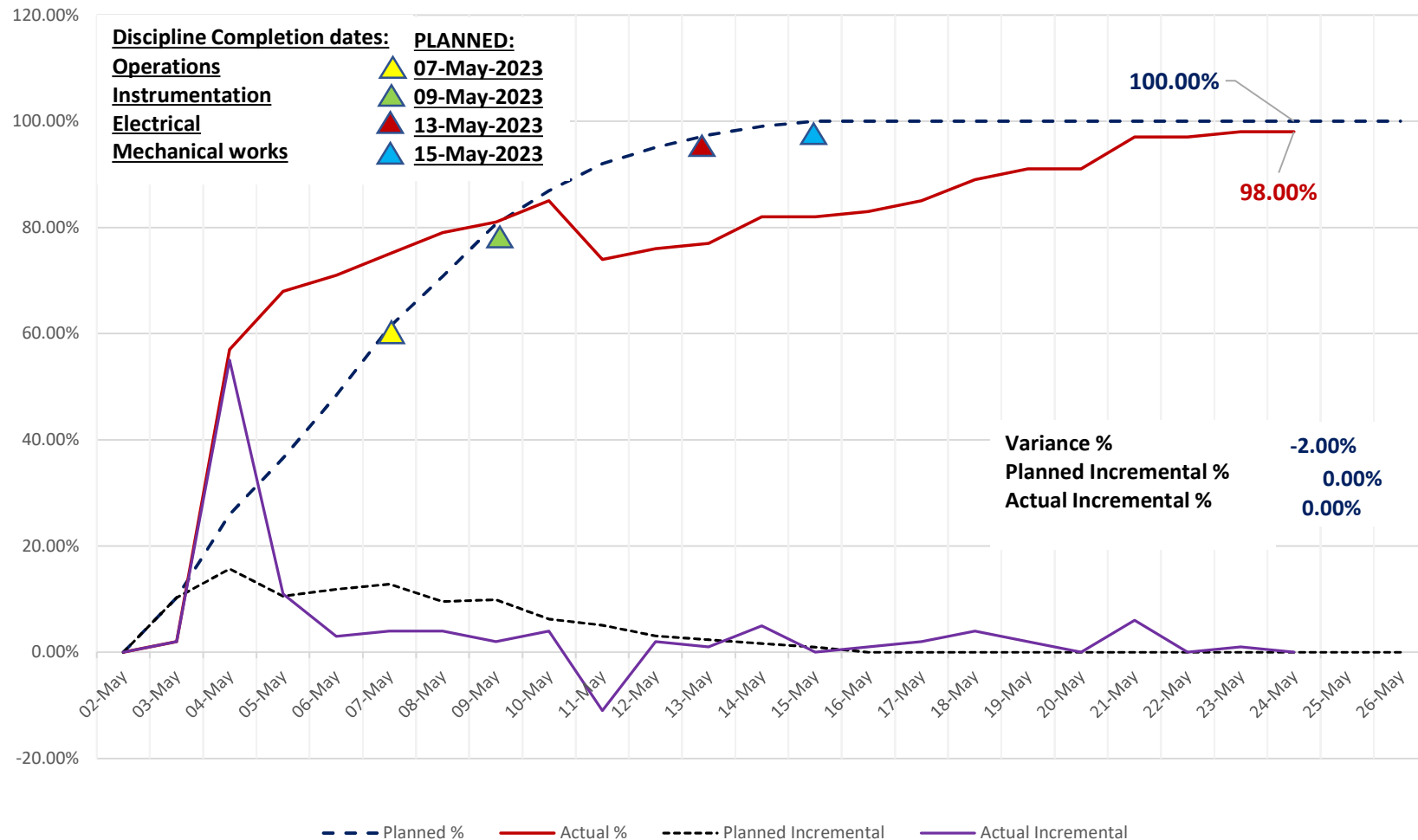
- Operations** 05-May-2023
- Instrumentation** 07-May-2023
- Electrical** 16-May-2023
- Mechanical works** 27-May-2023
- Civils** 10-May-2023

Variance %

Category	Variance %
Planned Incremental %	2.38%
Actual Incremental %	1.00%
Total Variance	-5.82%

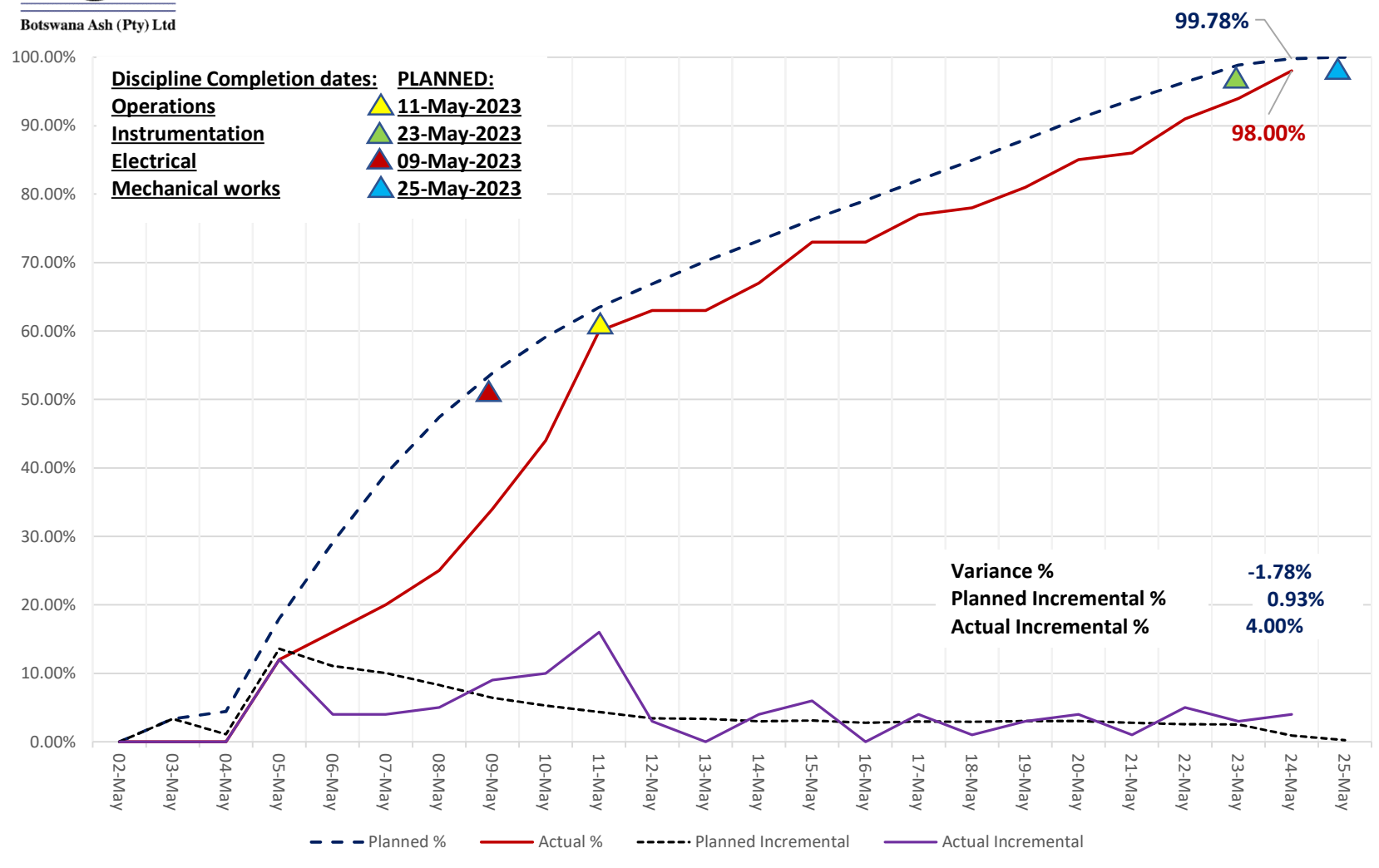


BICARBONATE FILTRATION A LINE:- 24-May-2023



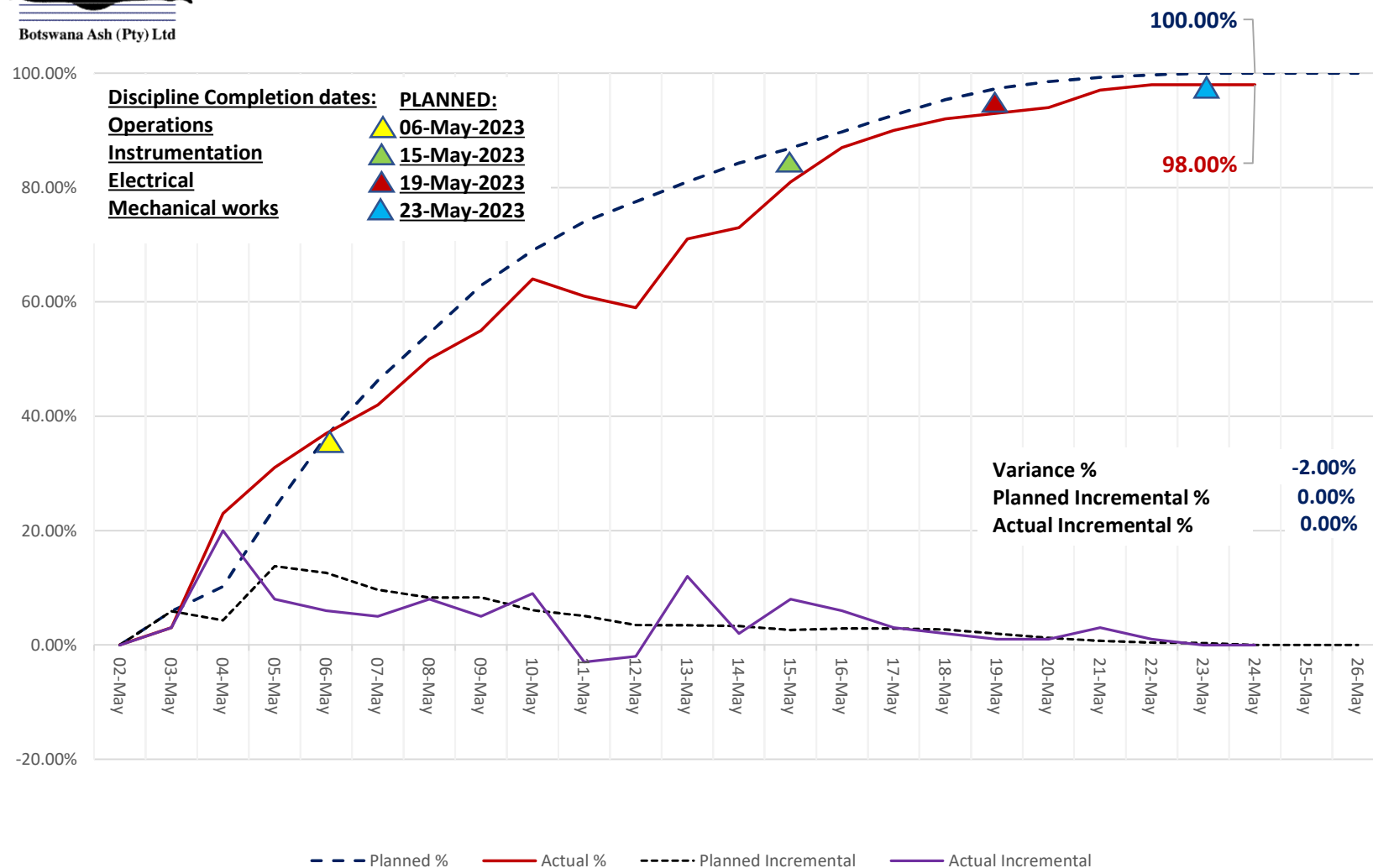


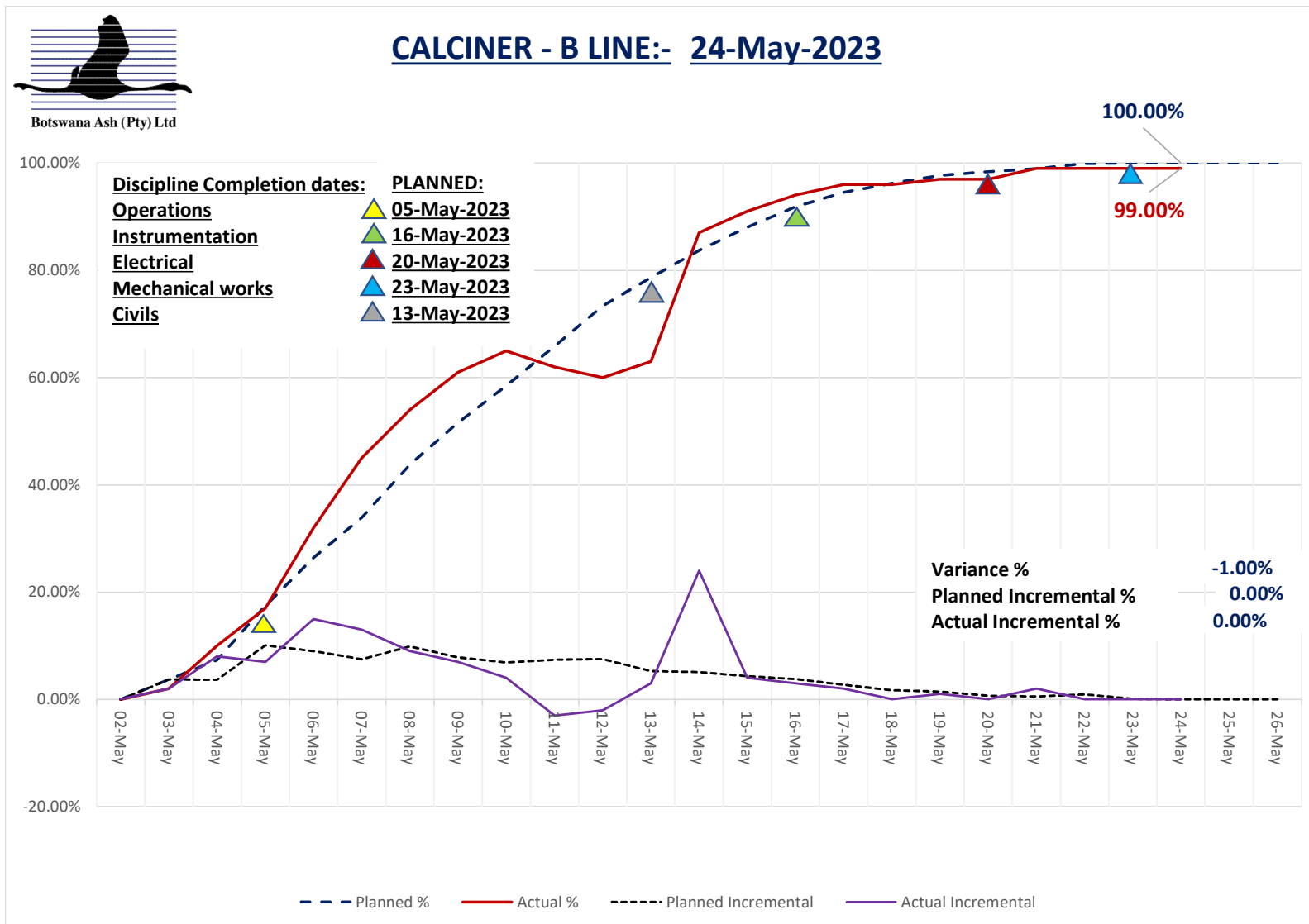
BICARBONATE FILTRATION B LINE:- 24-May-2023





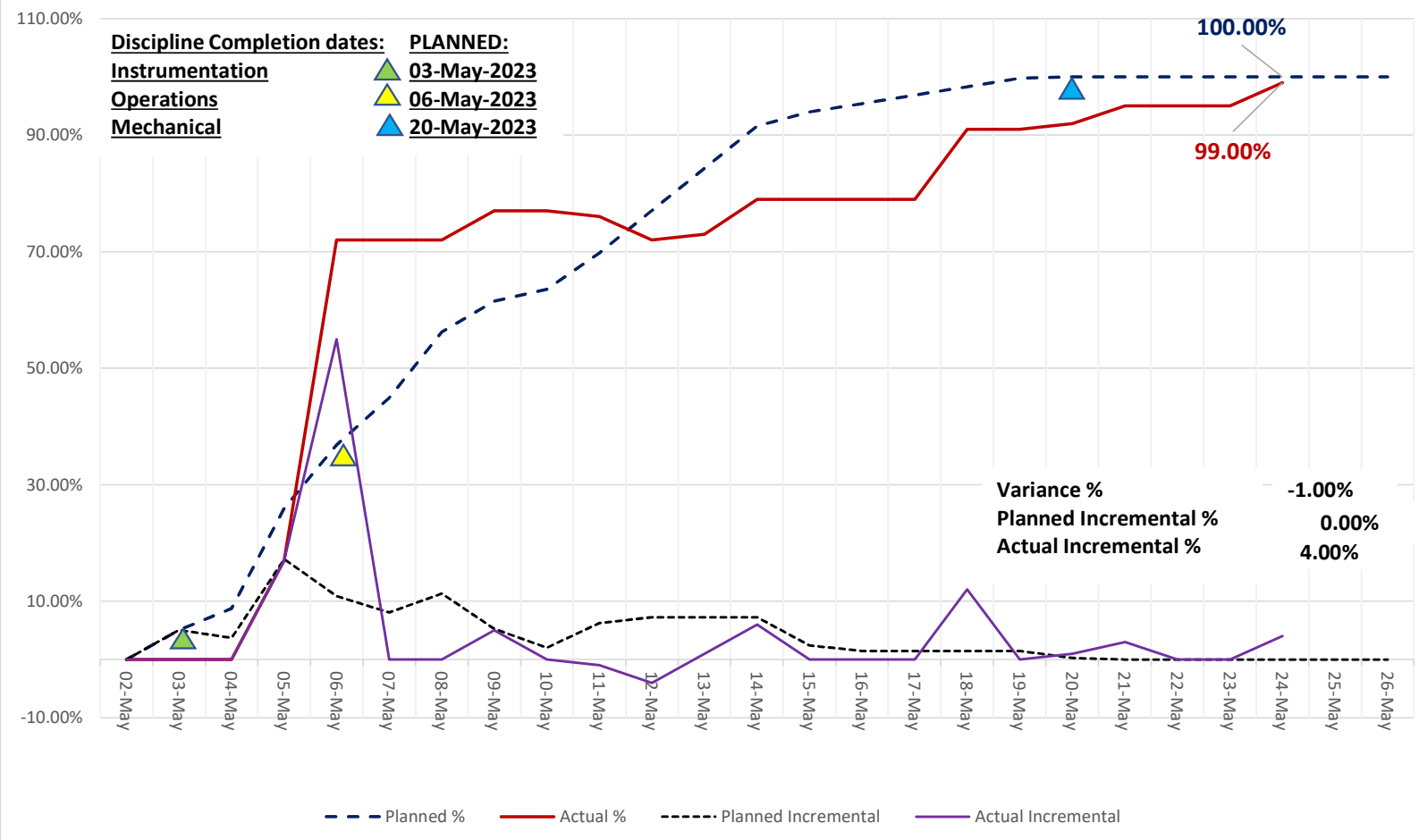
CALCINER - A LINE:- 24-May-2023

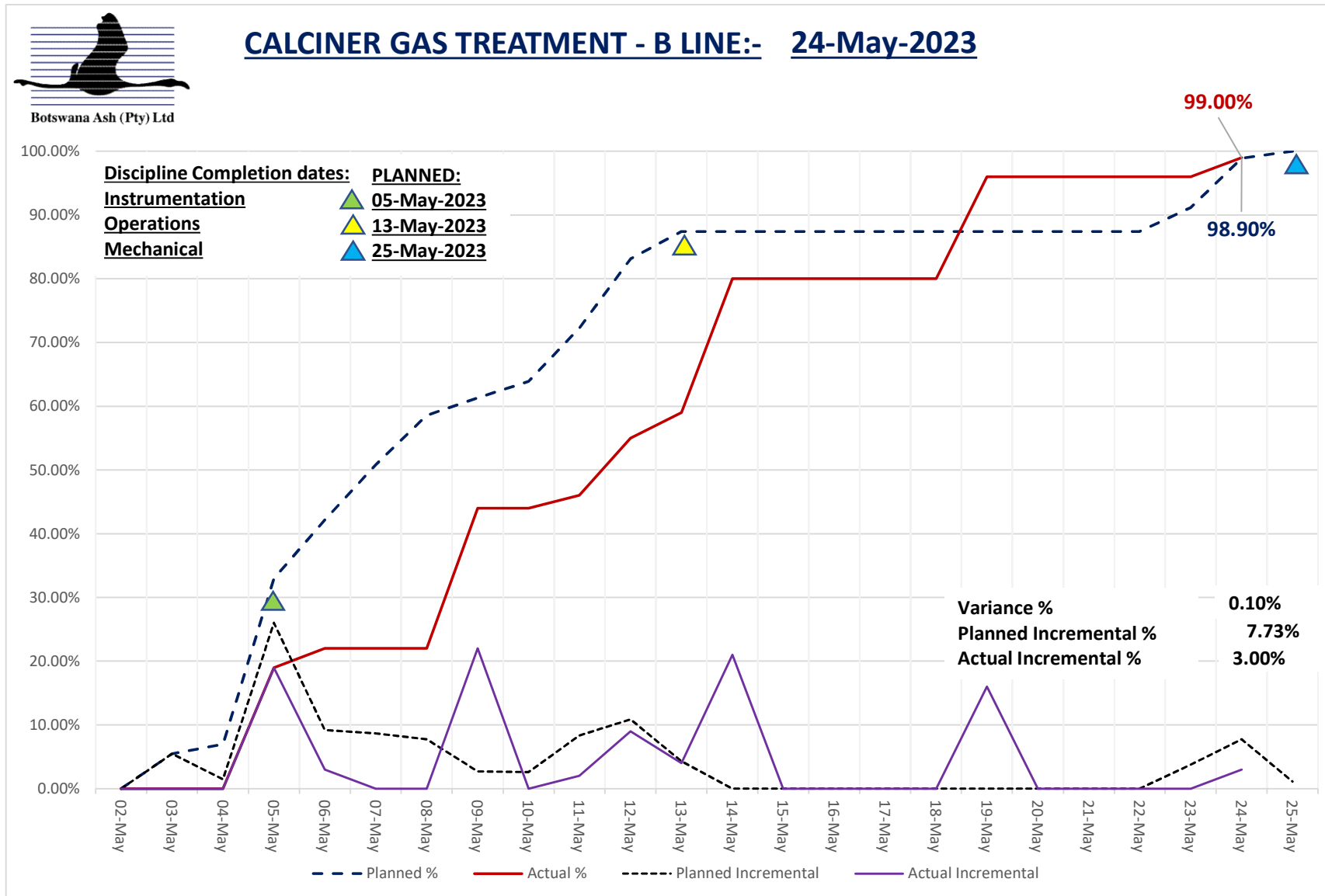






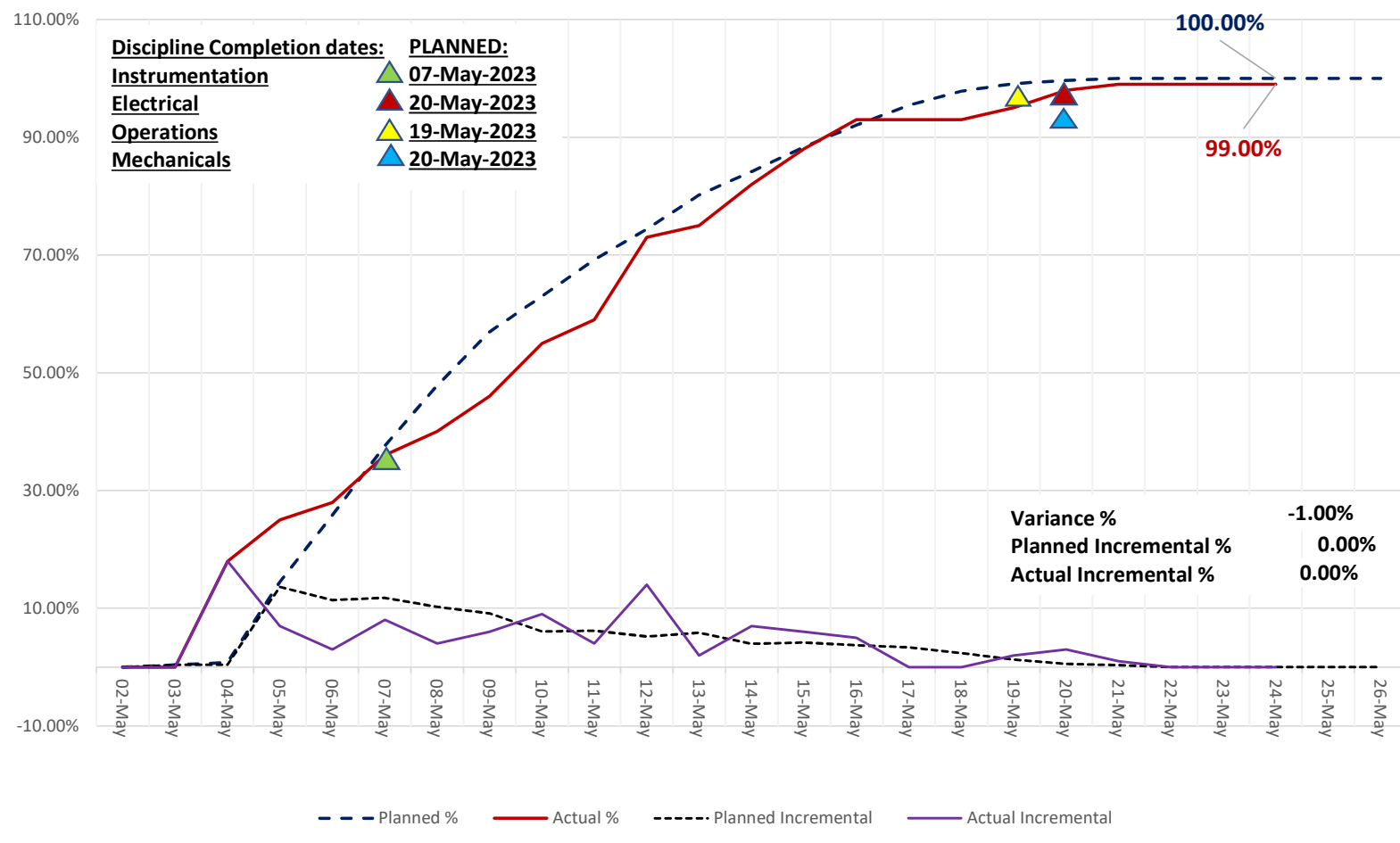
CALCINER GAS TREATMENT - A LINE:- 24-May-2023

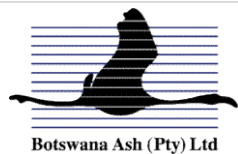




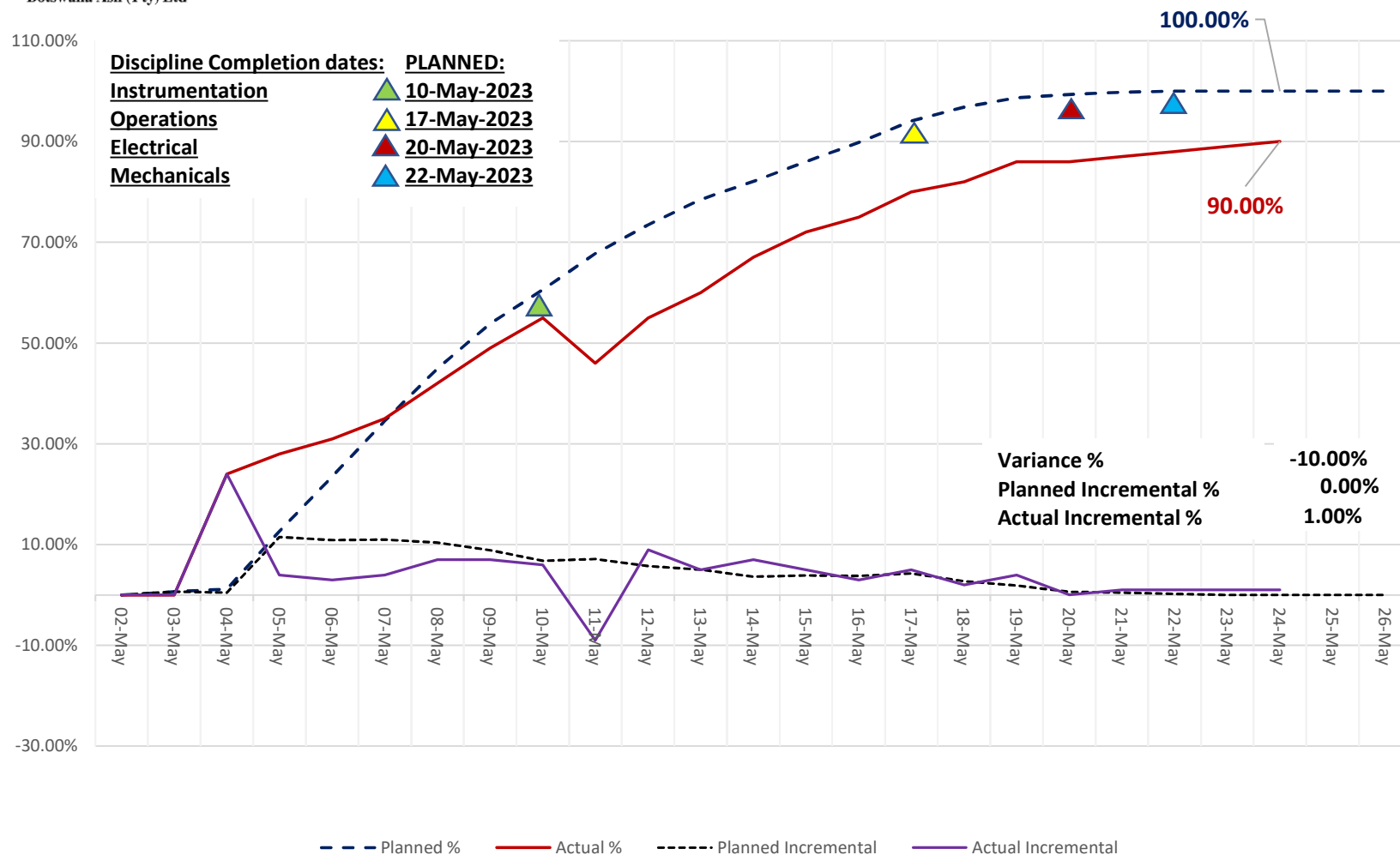


COMPACTION - A LINE:- 24-May-2023



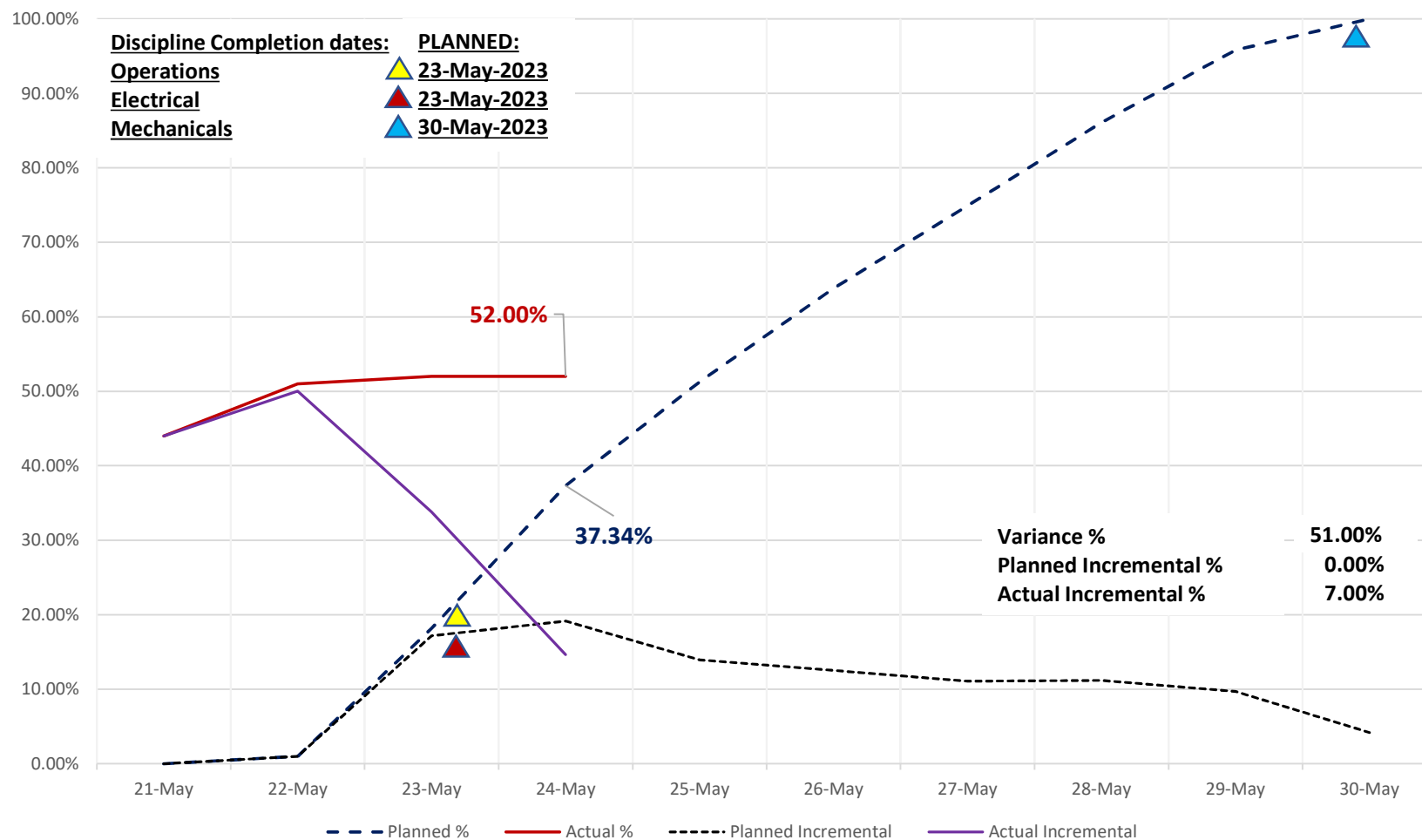


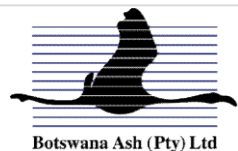
COMPACTION - B LINE:- 24-May-2023





DENSE SODA ASH STORAGE:- 24-May-2023





DENSE SODA ASH BAGGING:- 24-May-2023

