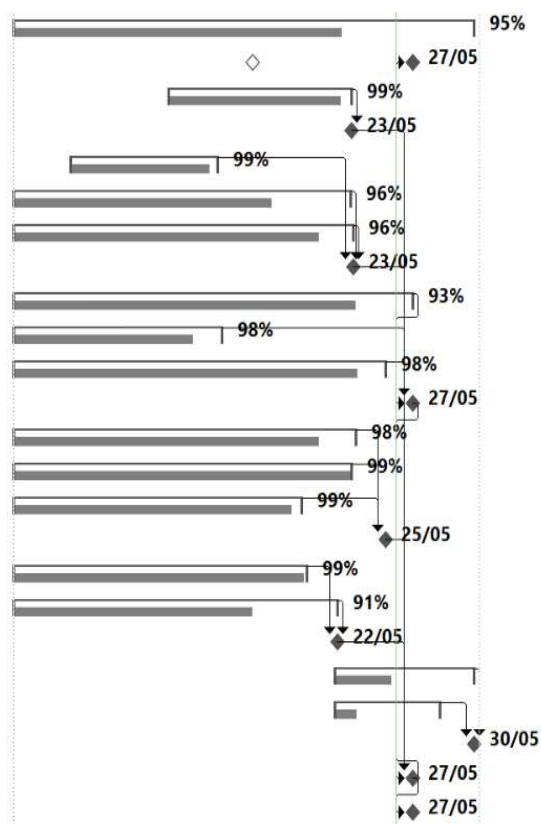




SODA ASH PLANT DASHBOARD

SHUTDOWN PLAN 2023 - SODA ASH PLANT	293.25 hrs	95%	Wed 03/05/23 06:30	Tue 30/05/23 17:15
PROJECT FINISH	0 hrs	0%	Sat 27/05/23 02:45	Sat 27/05/23 02:45
FIRE HYDRANT SYSTEM	115.5 hrs	99%	Fri 12/05/23 08:30	Tue 23/05/23 08:30
Water Plant Maintenance Complete	0 hrs	0%	Tue 23/05/23 08:30	Tue 23/05/23 08:30
HOT WASH WATER SYSTEM	91 hrs	99%	Sat 06/05/23 11:00	Mon 15/05/23 07:30
CARBONATION	210.25 hrs	96%	Wed 03/05/23 06:30	Tue 23/05/23 07:15
CRYSTALLISATION	214.25 hrs	96%	Wed 03/05/23 06:30	Tue 23/05/23 11:15
Carbonation Maintenance Complete	0 hrs	0%	Tue 23/05/23 11:15	Tue 23/05/23 11:15
BICARBONATE THICKENING	252 hrs	93%	Wed 03/05/23 06:30	Sat 27/05/23 02:45
BICARBONATE FILTRATION - A LINE	294.75 hrs	98%	Wed 03/05/23 06:30	Mon 15/05/23 13:15
BICARBONATE FILTRATION - B LINE	233.5 hrs	98%	Wed 03/05/23 06:30	Thu 25/05/23 09:30
Thickening and Filtration Maintenance Complete	0 hrs	0%	Sat 27/05/23 02:45	Sat 27/05/23 02:45
CALCINER - A LINE	217.5 hrs	98%	Wed 03/05/23 06:30	Tue 23/05/23 15:00
CALCINER - B LINE	211.5 hrs	99%	Wed 03/05/23 06:30	Tue 23/05/23 08:30
CALCINER GAS TREATMENT - A LINE	180 hrs	99%	Wed 03/05/23 06:30	Sat 20/05/23 08:30
Calcining Maintenance Complete	0 hrs	0%	Thu 25/05/23 09:00	Thu 25/05/23 09:00
COMPACTION - A LINE	187.25 hrs	99%	Wed 03/05/23 06:30	Sat 20/05/23 16:15
COMPACTION - B LINE	204.25 hrs	91%	Wed 03/05/23 06:30	Mon 22/05/23 11:45
Compaction Maintenance Complete	0 hrs	0%	Mon 22/05/23 11:45	Mon 22/05/23 11:45
DENSE SODA ASH STORAGE	92.25 hrs	52%	Mon 22/05/23 08:30	Tue 30/05/23 17:15
DENSE SODA ASH BAGGING	69.5 hrs	24%	Mon 22/05/23 08:30	Sun 28/05/23 15:30
Ash Bagging and Storage Maintenance Complete	0 hrs	0%	Tue 30/05/23 17:15	Tue 30/05/23 17:15
SHUTDOWN MAINTENANCE COMPLETE	0 hrs	0%	Sat 27/05/23 02:45	Sat 27/05/23 02:45
PLANT START-UP PLAN	0 hrs	0%	Sat 27/05/23 02:45	Sat 27/05/23 02:45

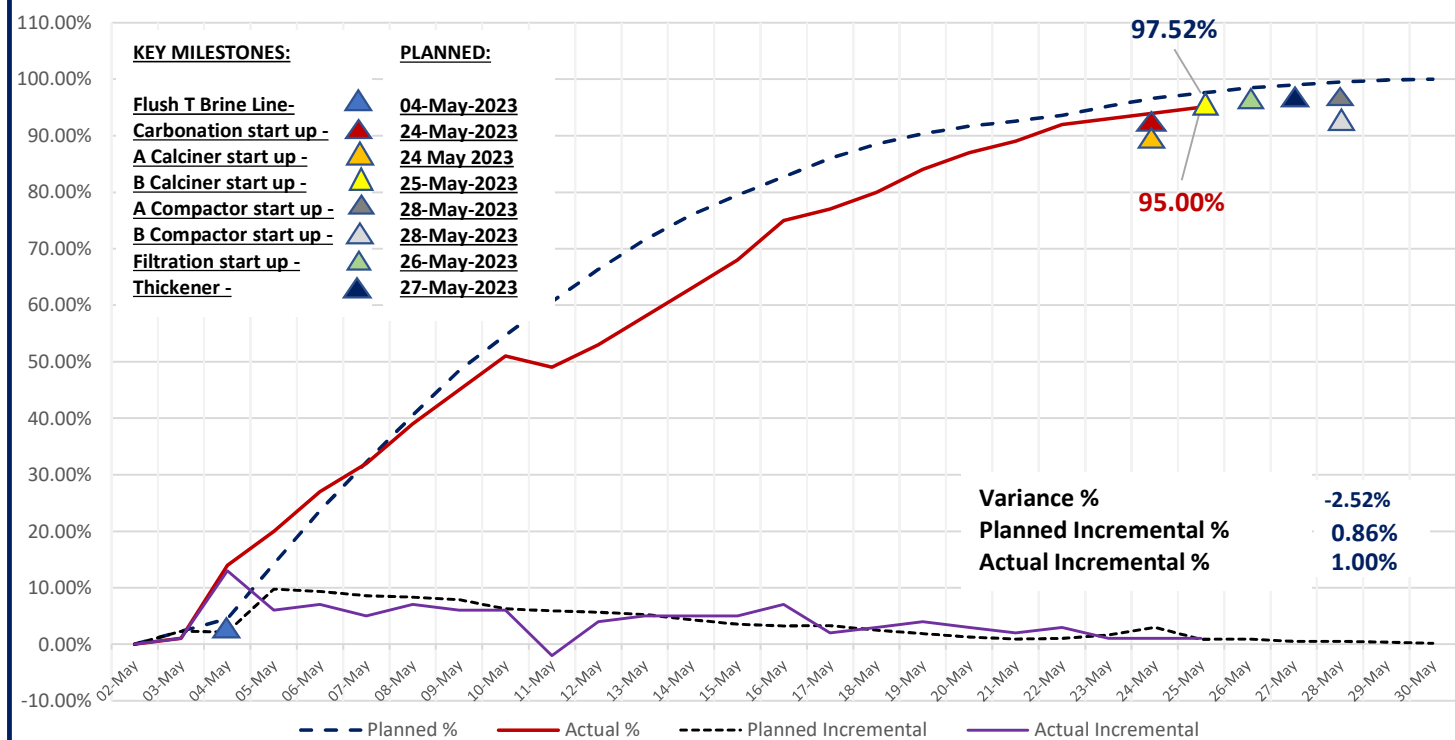


SODA ASH PLANT KEY MILESTONES	PLANNED	FORECAST	Variance	DAYS TO COMPLETION	TOP 5 RISKS	
CARBONATION	23-May-23	26-May-23	-3.80	2	1) B Compactor gearbox repairs	
BICARBONATE THICKENING	27-May-23	27-May-23	-0.68		2) Sand Filter repairs	
BICARBONATE FILTRATION - A LINE	15-May-23	26-May-23	-11.56		3) Thickener concrete repairs	
CALCINER - A LINE	23-May-23	26-May-23	-3.41		4) A Calciner paddle repairs	
COMPACTION - A LINE	20-May-23	26-May-23	-6.18		5) Possible rework	
COMPACTION - B LINE	22-May-23	04-Jun-23	-13.75		Possible rework	
DENSE SODA ASH STORAGE & BAGGING	30-May-23	30-May-23	0.00			
PLANT SUB-AREA:	Planned	Actual	Variance	Planned % Increment	Actual % Increment	Risk
SHUTDOWN 2023 - SODA ASH	97.52%	95.00%	-2.52%	0.86%	1.00%	
POTABLE & BRACKISH WATER SUPPLY	100.00%	100.00%	0.00%	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%	0.00%	
CRYSTALLISATION	100.00%	96.00%	-4.00%	0.00%	0.00%	
BICARBONATE THICKENING	98.69%	93.00%	-5.69%	0.88%	1.00%	
BICARBONATE FILTRATION - A LINE	100.00%	98.00%	-2.00%	0.00%	0.00%	
BICARBONATE FILTRATION - B LINE	100.00%	98.00%	-2.00%	0.22%	0.00%	
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%	0.00%	
CALCINER GAS TREATMENT - B LINE	100.00%	100.00%	0.00%	1.10%	1.00%	
COMPACTION - A LINE	100.00%	99.00%	-1.00%	0.00%	0.00%	
COMPACTION - B LINE	100.00%	91.00%	-9.00%	0.00%	1.00%	
DENSE SODA ASH STORAGE	0.00%	52.00%	52.00%	0.00%	0.00%	
DENSE SODA ASH BAGGING	0.00%	24.00%	24.00%	0.00%	19.00%	



BOTSWANA BOTASH REFURBISHMENT PROJECT 2023 - SODA ASH

PLANT :- 25-May-2023



LOOK AHEAD SCOPE OF WORKS (L/L)	POSSIBLE RISKS	MITIGATIONS ON RISKS
SAND FILTERS - Remove rubberlining then glasscoat tank		
PRE CARBONATOR GEARBOX AGITATOR - Carry Out Inspection		
SECONDARY CARBONATOR - Agitator shaft and steady rest assembly replacement		
# 3 CRYSTALISER FEEDPUMP B - Overhaul Pump		
# 7 HEAT EXCHANGER - Inspect & Replace Deffective Gaskets and plates		
THICKENING MAIN GEAR - Clean Out And Inspect The Main Gear		
THICKENER WALLS AND LAUNDER REPAIRS		
THICKENER LAUNDER - Install wash water pipes		
THICKENER RAKE - Service Hydraulic Unit		
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 - Replace MS structure with stainless steel		
# 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		
# B FEED HOPPER WITH STIRRERS - Overhaul And Repair Base Plates		
DENSE SODA ASH STORAGE		
DENSE SODA ASH BAGGING		