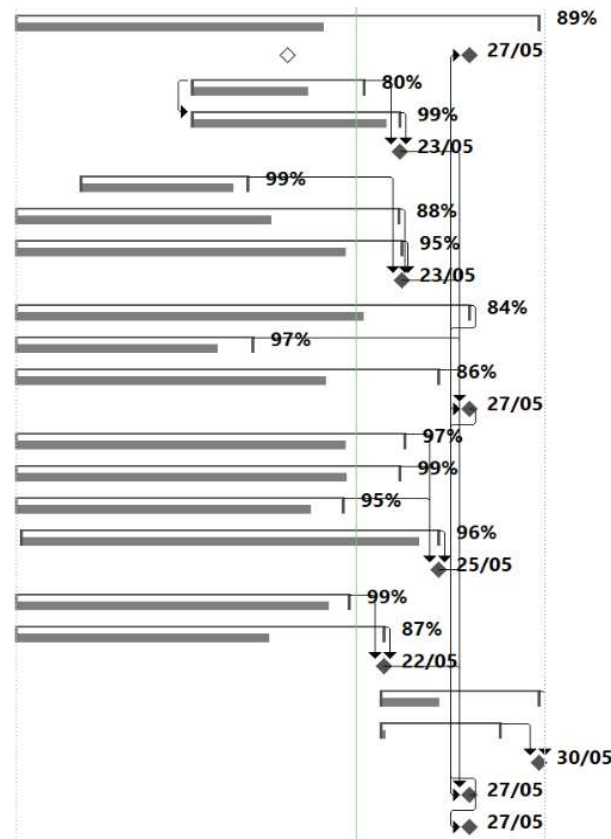


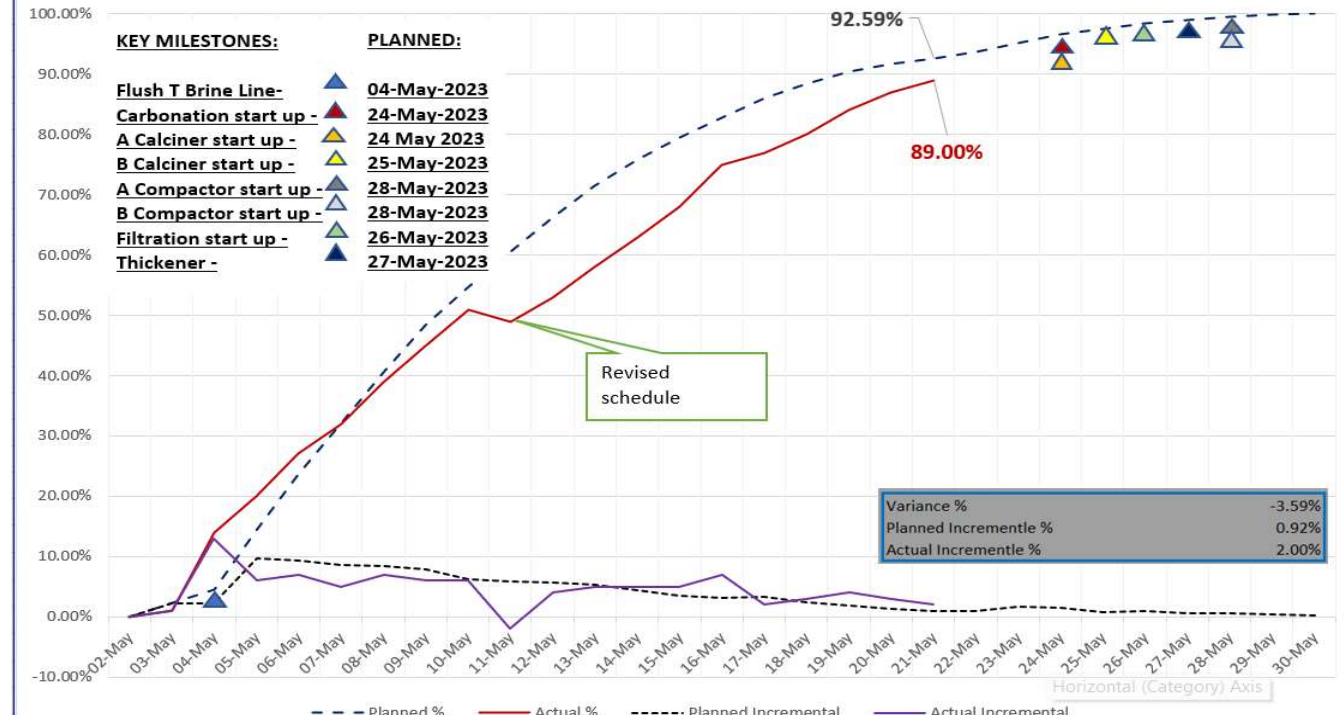


SODA ASH PLANT DASHBOARD

SHUTDOWN PLAN 2023 - SODA ASH PLANT	293.25 hrs	89%	03/05/2023	30/05/2023
PROJECT FINISH	0 hrs	0%	27/05/2023	27/05/2023
POTABLE & BRACKISH WATER SUPPLY	97 hrs	80%	12/05/2023	21/05/2023
FIRE HYDRANT SYSTEM	115.5 hrs	99%	12/05/2023	23/05/2023
Water Plant Maintenance Complete	0 hrs	0%	23/05/2023	23/05/2023
HOT WASH WATER SYSTEM	91 hrs	99%	06/05/2023	15/05/2023
CARBONATION	210.25 hrs	88%	03/05/2023	23/05/2023
CRYSTALLISATION	214.25 hrs	95%	03/05/2023	23/05/2023
Carbonation Maintenance Complete	0 hrs	0%	23/05/2023	23/05/2023
BICARBONATE THICKENING	252 hrs	84%	03/05/2023	27/05/2023
BICARBONATE FILTRATION - A LINE	294.75 hrs	97%	03/05/2023	15/05/2023
BICARBONATE FILTRATION - B LINE	233.5 hrs	86%	03/05/2023	25/05/2023
Thickening and Filtration Maintenance Complete	0 hrs	0%	27/05/2023	27/05/2023
CALCINER - A LINE	217.5 hrs	97%	03/05/2023	23/05/2023
CALCINER - B LINE	211.5 hrs	99%	03/05/2023	23/05/2023
CALCINER GAS TREATMENT - A LINE	180 hrs	95%	03/05/2023	20/05/2023
CALCINER GAS TREATMENT - B LINE	233 hrs	96%	03/05/2023	25/05/2023
Calcining Maintenance Complete	0 hrs	0%	25/05/2023	25/05/2023
COMPACTION - A LINE	187.25 hrs	99%	03/05/2023	20/05/2023
COMPACTION - B LINE	204.25 hrs	87%	03/05/2023	22/05/2023
Compaction Maintenance Complete	0 hrs	0%	22/05/2023	22/05/2023
DENSE SODA ASH STORAGE	92.25 hrs	44%	22/05/2023	30/05/2023
DENSE SODA ASH BAGGING	69.5 hrs	5%	22/05/2023	28/05/2023
Ash Bagging and Storage Maintenance Complete	0 hrs	0%	30/05/2023	30/05/2023
SHUTDOWN MAINTENANCE COMPLETE	0 hrs	0%	27/05/2023	27/05/2023
PLANT START-UP PLAN	0 hrs	0%	27/05/2023	27/05/2023



BOTSWANA - BOTASH REFURBISHMENT PROJECT 2023 - SODA ASH PLANT - Update:- 21 May 2023 - Rev 02



SODA ASH PLANT KEY MILESTONES	PLANNED	FORECAST	Variance	DAYS TO COMPLETION	TOP 5 RISKS	
HOT WASH WATER SYSTEM	15-May-23	22-May-23	-6.77	6	1) B Compactor gearbox repairs 2) A Calciner paddle repairs 3) Thickener concrete repairs 4) Sec Carbo internal repairs 5) Possible rework	
CARBONATION	23-May-23	24-May-23	-1.10			
BICARBONATE THICKENING	27-May-23	28-May-23	-0.89			
BICARBONATE FILTRATION - A LINE	15-May-23	22-May-23	-7.29			
CALCINER - A LINE	23-May-23	23-May-23	0.00			
COMPACTION - A LINE	20-May-23	22-May-23	-1.50			
Soda Ash Plant operational	30-May-23	30-May-23	0.00			
PLANT SUB-AREA:	Planned	Actual	Variance	Planned % Increment	Actual % Increment	Risk
SHUTDOWN 2023 - SODA ASH	92.59%	89.00%	-3.59%	0.92%	2.00%	
POTABLE & BRACKISH WATER SUPPLY	100.00%	80.00%	-20.00%	0.83%	3.00%	
FIRE HYDRANT SYSTEM	97.10%	99.00%	1.90%	0.00%	2.00%	
HOT WASH WATER SYSTEM	100.00%	99.00%	-1.00%	0.00%	1.00%	
CARBONATION	99.44%	88.00%	-11.44%	0.88%	4.00%	
CRYSTALLISATION	96.48%	95.00%	-1.48%	1.98%	0.00%	
BICARBONATE THICKENING	85.19%	83.00%	-2.19%	5.26%	2.00%	
BICARBONATE FILTRATION - A LINE	100.00%	97.00%	-3.00%	0.00%	6.00%	
BICARBONATE FILTRATION - B LINE	93.79%	86.00%	-7.79%	2.78%	1.00%	
CALCINER - A LINE	99.25%	97.00%	-2.25%	0.71%	3.00%	
CALCINER - B LINE	98.94%	99.00%	0.06%	0.54%	2.00%	
CALCINER GAS TREATMENT - A LINE	100.00%	95.00%	-5.00%	0.00%	3.00%	
CALCINER GAS TREATMENT - B LINE	87.41%	96.00%	8.59%	0.00%	0.00%	
COMPACTION - A LINE	100.00%	99.00%	-1.00%	0.32%	1.00%	
COMPACTION - B LINE	99.79%	87.00%	-12.79%	0.47%	1.00%	
DENSE SODA ASH STORAGE	0.00%	44.00%	44.00%	0.00%	5.00%	
DENSE SODA ASH BAGGING	0.00%	5.00%	5.00%	0.00%	5.00%	

LOOK AHEAD SCOPE OF WORKS (L/L)	POSSIBLE RISKS	MITIGATIONS ON RISKS
HWW Circulation lines - replace		
Thickner S.O.W	Revised S.O.W after Inspections	Double shift (C/Path)
Hot Wash Pumps		
HWW Instrumentation works		
Carbonation Feed heaters - cleaning		
A,B,C & D Sand Filters		
Carbonation Feed tank		
A Bicarbonate Belt Conveyor - Replace	Belt delivery	Low risk
Cloth Wash tank - relocate manhole		
Cloth Wash Pumps - Inspect		
Filtration pumps - overhaul	Workshop machining	Prioritise work load
Seal Water Heat Exchanger - Repair	Repairs in S.A.- turnaround time	ETA tba.
Vacuum Pumps - Inspection		
Electrical maint - Pumps	Motor repairs - outside Vendors	Prioritise work load
Bicarb Filtration air receivers - Clean		
Belt Filters - Struct, change to S/Steel		
B Belt Filters - check bearings / ripple skirting		
Replace slide gates		
Bitterns pumps		
Filter Feed pumps	Workshop machining	Prioritise work load
E & I Works		
Repair Fibre glass pipelines		