

Botswana Ash (Pty) Ltd

UTILITY PLANT DASHBOARD

Botash Project - Utility Plant - TARGET SCHEDULE
Update 15 May 2023

Rev 04
Drafted by: Slingshot Consultants

Botswana Ash (Pty) Ltd

ID	Task Name	% Complete	Duration	Start	Finish	Actual Start	Actual Finish	Baseline Start
1	BOTSWANA - BOTASH REFURBISHMENT PROJECT 2023 - UTILITY PLANT	76%	688.75 hrs	Wed 3/15/23	Mon 5/22/23	Wed 3/15/23	NA	Wed 3/15/23
2	PROJECT MILESTONES	99%	198.75 hrs	Wed 5/3/23	Mon 5/22/23	Wed 5/3/23	NA	Wed 5/3/23
40	SOLAR PONDS COOLING WATER LINE	100%	108.75 hrs	Mon 5/8/23	Thu 5/18/23	Mon 5/8/23	Thu 5/18/23	Mon 5/8/23
56	FLUE GAS DESULPHURISATION	94%	198.75 hrs	Wed 5/3/23	Mon 5/22/23	Wed 5/3/23	NA	Wed 5/3/23
421	MEA SYSTEM ABSORBTION	84%	663.25 hrs	Wed 3/15/23	Sat 5/20/23	Wed 3/15/23	NA	Wed 3/15/23
610	MEA SYSTEM STRIPPING	85%	183.5 hrs	Wed 5/3/23	Sun 5/21/23	Wed 5/3/23	NA	Wed 5/3/23
765	MEA SYSTEM RECLAIMER	100%	106.25 hrs	Fri 5/5/23	Tue 5/16/23	Fri 5/5/23	Tue 5/16/23	Fri 5/5/23
873	# 1 BOILER	80%	421.5 hrs	Mon 4/10/23	Mon 5/22/23	Mon 4/10/23	NA	Sun 4/30/23
1785	# 2 BOILER	71%	216 hrs	Sun 4/30/23	Sun 5/21/23	Sun 4/30/23	NA	Sun 4/30/23
2538	COAL HANDLING PLANT	24%	157.75 hrs	Fri 5/5/23	Sat 5/20/23	Fri 5/5/23	NA	Fri 5/5/23
2583	BOILER PLANT COMMON	74%	197.75 hrs	Wed 5/3/23	Mon 5/22/23	Wed 5/3/23	NA	Wed 5/3/23
2785	WATER TREATMENT PLANT (DEMIN PLANT)	77%	250.75 hrs	Thu 4/27/23	Mon 5/22/23	Thu 4/27/23	NA	Thu 4/27/23
3140	INSTRUMENT AIR COMPRESSOR SYSTEM	16%	174.5 hrs	Mon 5/1/23	Fri 5/19/23	Mon 5/1/23	NA	Mon 5/1/23
3173	STEAM AND CONDENSATE SYSTEM	49%	164.5 hrs	Thu 5/4/23	Sat 5/20/23	Thu 5/4/23	NA	Thu 5/4/23
3413	TURBINE	80%	160.75 hrs	Fri 5/5/23	Sun 5/21/23	Fri 5/5/23	NA	Fri 5/5/23
3671	MV RETICULATION	87%	129 hrs	Sat 5/6/23	Thu 5/18/23	Sat 5/6/23	NA	Mon 5/8/23
4467	LV RETICULATION	61%	61.25 hrs	Thu 5/11/23	Thu 5/18/23	Thu 5/11/23	NA	Thu 5/11/23

UTILITY PLANT KEY MILESTONES	PLANNED	FORECAST	Variance	DAYS TO COMPLETION	TOP 5 RISKS
# 1 Blr Pressure Test	19-May-23	15-May-23	4	7	1) Structural steel works
# 2 Blr Pressure Test	20-May-23	20-May-23	0		2) Soft water Lines
# 1 Blr Fires In	23-May-23	23-May-23	0		3) Condensated Lines
# 2 Blr Fires In	24-May-23	24-May-23	0		4) Refractoy
Steam and Condensate on Pressure	23-May-23	23-May-23	0		5) Demin plant - Concrete
MEA Plant ready for operation	22-May-23	22-May-23	0		
Coal Plant ready for operation	22-May-23	22-May-23	0		

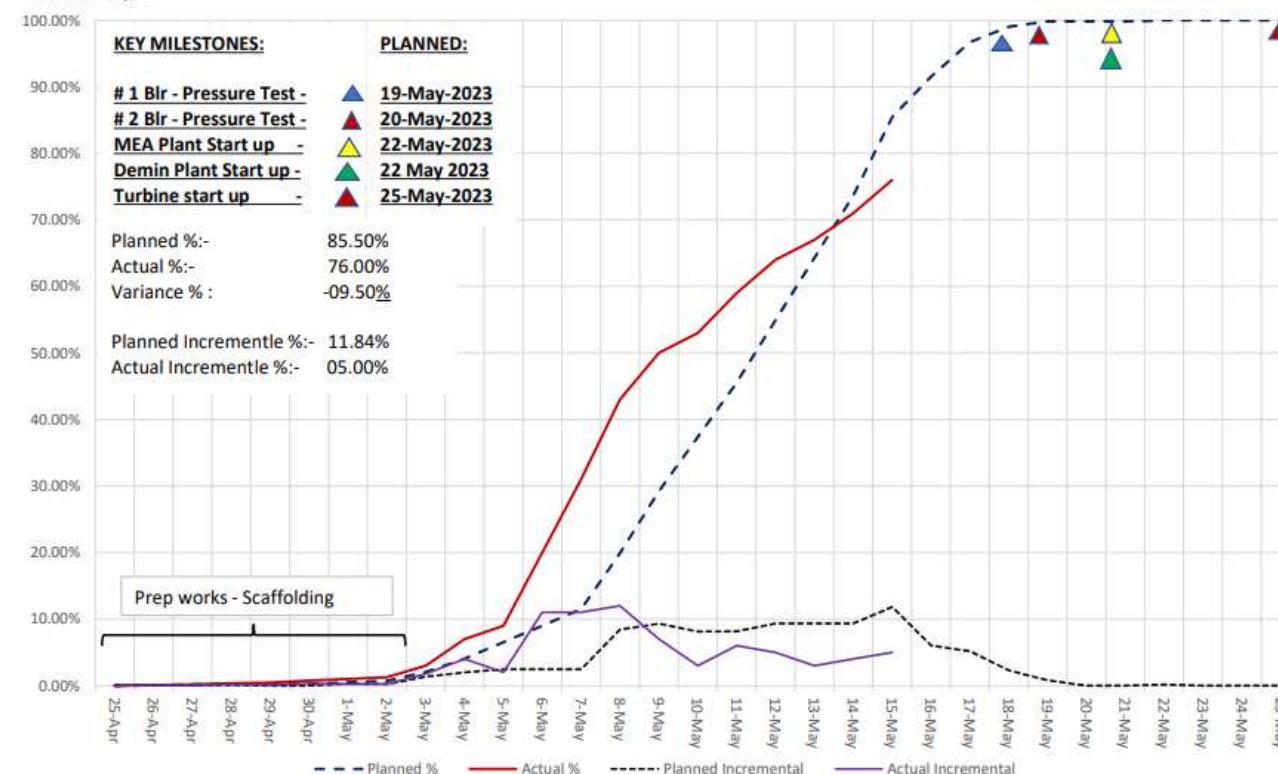
PLANT SUB-AREA:	Planned	Actual	Variance	Planned % Increment	Actual % Increment	Risk
UTILITY PLANT - OVERALL	85.50%	76.00%	-9.50%	11.84%	5.00%	
FLUE GAS DESULPHURISATION	93.73%	94.00%	0.27%	6.27%	4.00%	
MEA SYSTEM ABSORBTION	73.50%	84.00%	10.50%	0.00%	4.00%	
MEA SYSTEM STRIPPING	83.79%	85.00%	1.21%	11.03%	0.00%	
MEA SYSTEM RECLAIMER	100.00%	100.00%	0.00%	6.21%	44.00%	
# 1 BOILER	92.65%	80.00%	-12.65%	7.86%	7.00%	
# 2 BOILER	92.33%	71.00%	-21.33%	9.94%	8.00%	
COAL HANDLING PLANT	72.39%	24.00%	-48.39%	7.42%	2.00%	
BOILER PLANT COMMON	81.21%	74.00%	-7.21%	10.21%	3.00%	
WATER TREATMENT PLANT (DEMIN)	77.68%	77.00%	-0.68%	12.34%	1.00%	
INSTRUMENT AIR COMPRESSOR SYSTEM	88.80%	16.00%	-72.80%	7.68%	1.00%	
STEAM AND CONDENSATE SYSTEM	60.38%	49.00%	-11.38%	14.87%	4.00%	
TURBINE	94.35%	80.00%	-14.35%	10.90%	0.00%	
MV RETICULATION	68.67%	87.00%	18.33%	18.33%	0.00%	
LV RETICULATION	58.41%	61.00%	2.59%	17.40%	0.00%	



Botswana Ash (Pty) Ltd

BOTSWANA - BOTASH REFURBISHMENT PROJECT 2023 - UTILITY PLANT

Update:- 15 May 2023



LOOK AHEAD SCOPE OF WORKS	POSSIBLE RISKS	MITIGATIONS ON RISKS
Solar ponds - Cooling water	Late deliver of structural steel	Possible double shifts
SO2 Absorber		
A & B FG Booster fan - Silencer		
Refractory	Delivery of materials	
# A & B Booster Fans - E & I		
Lean Rich & Cool Heat exchanger		
Lean & rich Solution pumps		
CO2 Stripppper & Seperator works		
Condensate Water lines	Resources	Prioritise works - transfer
Demin Plant - Effluent sump	Corotion protection - damaged floor and walls - recast	Material available Resource allocations
Blr 1 & 2 ID Fans		
Babcock SOW - Blr 2		
Compressor housing - Civils works		
Scaffolding as per schedule	Scaffold removal	Daily management
Coal handling conveyors structures	Sructural steel insallation	Prioritise works - transfer
Bunker 2 Skincasing works		
Blr 2 Baghouse repairs		
Blr 2 Bagfilter - Bags		
Pressure Valves	Late completion	Prioritise
Water Treatment Plant		
Instrument Air - Mechanical	Compressors	Resoure allocations