

## UTILITY PLANT DASHBOARD

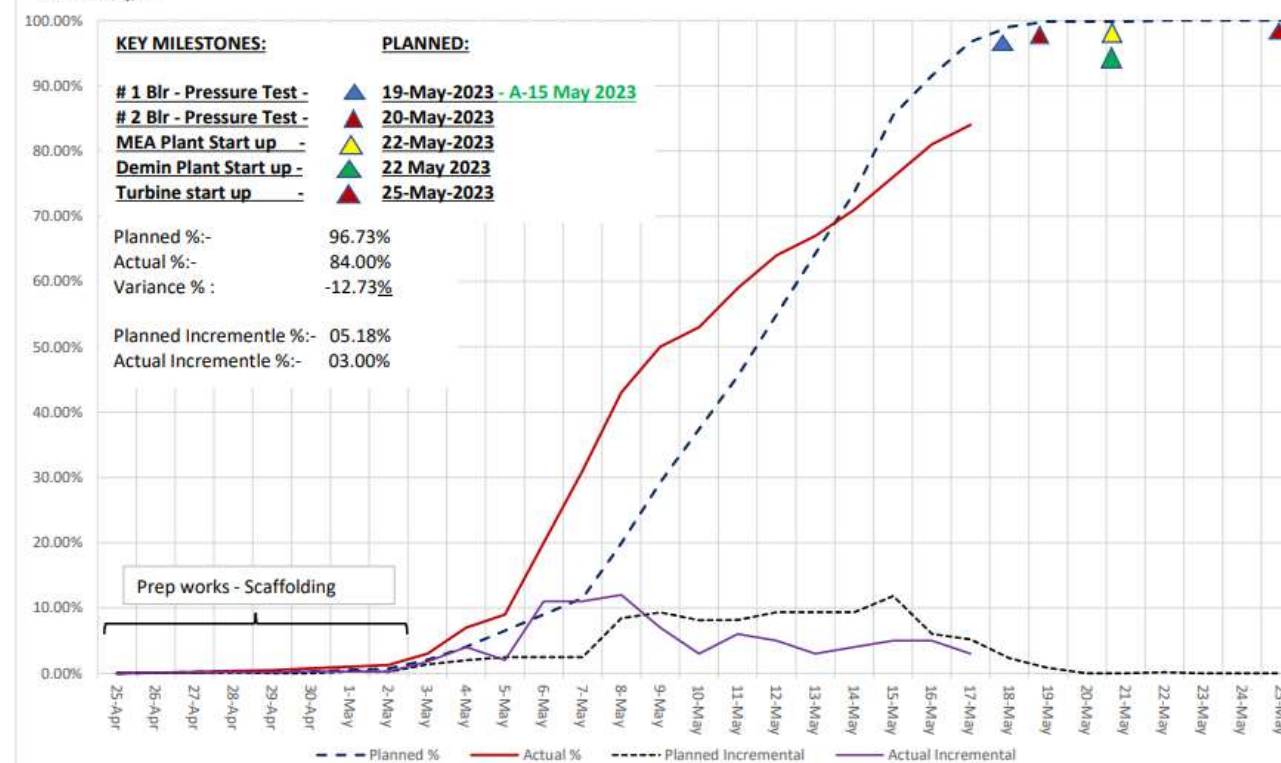
Drafted by: Slingshot Consultancy  
STATUS DATE: 17-May-23

Botash Project - Utility Plant - TARGET SCHEDULE										Rev 04
Update 17 May 2023										Drafted by: Slingshot Consultants
ID	Task Name	% Complete	Duration	Start	Finish	Actual Start	Actual Finish	Baseline Start	Baseline Finish	
1	BOTSWANA - BOTASH REFURBISHMENT PROJECT 2023 - UTILITY PLANT	84%	690 hrs	Wed 3/15/23	Tue 5/23/23	Wed 3/15/23	NA	Wed 3/15/23	Mon 5/22/23	
2	PROJECT MILESTONES	99%	200 hrs	Wed 5/3/23	Tue 5/23/23	Wed 5/3/23	NA	Wed 5/3/23	Mon 5/22/23	
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	Thu 5/18/23	
56	FLUE GAS DESULPHURISATION	98%	198.75 hrs	Wed 5/3/23	Mon 5/22/23	Wed 5/3/23	NA	Wed 5/3/23	Mon 5/22/23	
421	MEA SYSTEM ABSORPTION	93%	663.25 hrs	Wed 3/15/23	Sat 5/20/23	Wed 3/15/23	NA	Wed 3/15/23	Sun 5/21/23	
610	MEA SYSTEM STRIPPING	94%	183.5 hrs	Wed 5/3/23	Sun 5/21/23	Wed 5/3/23	NA	Wed 5/3/23	Sun 5/21/23	
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	Tue 5/16/23	
873	# 1 BOILER	87%	421.5 hrs	Mon 4/10/23	Mon 5/22/23	Mon 4/10/23	NA	Sun 4/30/23	Mon 5/22/23	
1785	# 2 BOILER	77%	216 hrs	Sun 4/30/23	Sun 5/21/23	Sun 4/30/23	NA	Sun 4/30/23	Sun 5/21/23	
2538	COAL HANDLING PLANT	37%	157.75 hrs	Fri 5/5/23	Sat 5/20/23	Fri 5/5/23	NA	Fri 5/5/23	Sat 5/20/23	
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	Mon 5/22/23	
2785	WATER TREATMENT PLANT (DEMIN PLANT)	79%	250.75 hrs	Thu 4/27/23	Mon 5/22/23	Thu 4/27/23	NA	Thu 4/27/23	Mon 5/22/23	
3140	INSTRUMENT AIR COMPRESSOR SYSTEM	95%	174.5 hrs	Mon 5/1/23	Fri 5/19/23	Mon 5/1/23	NA	Mon 5/1/23	Fri 5/19/23	
3173	STEAM AND CONDENSATE SYSTEM	59%	164.5 hrs	Thu 5/4/23	Sat 5/20/23	Thu 5/4/23	NA	Thu 5/4/23	Sat 5/20/23	
3413	TURBINE	82%	160.75 hrs	Fri 5/5/23	Sun 5/21/23	Fri 5/5/23	NA	Fri 5/5/23	Sun 5/21/23	
3671	MV RETICULATION	99%	129 hrs	Sat 5/6/23	Thu 5/18/23	Sat 5/6/23	NA	Mon 5/8/23	Thu 5/18/23	
4467	LV RETICULATION	84%	61.25 hrs	Thu 5/11/23	Thu 5/18/23	Thu 5/11/23	NA	Thu 5/11/23	Thu 5/18/23	



## BOTSWANA - BOTASH REFURBISHMENT PROJECT 2023 - UTILITY PLANT

Update:- 17 May 2023



UTILITY PLANT KEY MILESTONES	PLANNED	FORECAST	Variance	DAYS TO COMPLETION	TOP 5 RISKS	
# 1 Blr Pressure Test	19-May-23	A 15/03/23	-3	5	1) Structural steel works 2) Soft water Lines 3) Condensated Lines 4) Refractory 5) Demin plant - Concrete	
# 2 Blr Pressure Test	20-May-23	20-May-23	0			
# 1 Blr Fires In	23-May-23	23-May-23	0			
# 2 Blr Fires In	24-May-23	24-May-23	0			
Steam and Condensate on Pressure	23-May-23	23-May-23	0			
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	96.73%	84.00%	-12.73%	5.18%	3.00%	
FLUE GAS DESULPHURISATION	96.67%	98.00%	1.33%	1.31%	0.00%	
MEA SYSTEM ABSORPTION	92.64%	93.00%	0.36%	11.19%	1.00%	
MEA SYSTEM STRIPPING	97.52%	94.00%	-3.52%	4.71%	0.00%	
MEA SYSTEM RECLAIMER	100.00%	100.00%	0.00%	0.00%	0.00%	
# 1 BOILER	97.03%	87.00%	-10.03%	2.13%	3.00%	
# 2 BOILER	98.73%	77.00%	-21.73%	2.45%	3.00%	
COAL HANDLING PLANT	87.01%	37.00%	-50.01%	7.19%	10.00%	
BOILER PLANT COMMON	89.38%	74.00%	-15.38%	4.09%	0.00%	
WATER TREATMENT PLANT (DEMIN)	93.17%	79.00%	-14.17%	7.01%	0.00%	
INSTRUMENT AIR COMPRESSOR SYSTEM	97.12%	95.00%	-2.12%	3.20%	18.00%	
STEAM AND CONDENSATE SYSTEM	72.83%	59.00%	-13.83%	10.35%	3.00%	
TURBINE	97.90%	82.00%	-15.90%	0.32%	2.00%	
MV RETICULATION	92.66%	99.00%	6.34%	11.98%	12.00%	
LV RETICULATION	90.56%	84.00%	-6.56%	12.98%	23.00%	

LOOK AHEAD SCOPE OF WORKS	POSSIBLE RISKS	MITIGATIONS ON RISKS
Solar ponds - Cooling water	Late deliver of structural steel	
Boiler 1 furnace - Box up		Low risk
Boiler 2 P/T	Let down station - Gaskets	Low risk
Refractory	Drying - Units to be on load	Note
Coal Handling - Vibrators		
Lean Rich & Cool Heat exchanger		
Condensate Water lines	Resources	Prioritise works - transfer
Common Plant let down station V/Vs		
Pressure Valves	Late completion	Prioritise
Demin Plant - Effluent sump	Corotion protection - damaged floor and walls - recast	Material available
Instrument Air - Mechanical	Tie in	Resource allocations
Babcock SOW - Blr 2		Contractor on site 17 May
Compressor housing - Civils works		
Scaffolding as per schedule	Scaffold removal	Daily management
Bunker 2 Skincasing works		
Water Treatment Plant - Effluent sump	Concrete repairs	Critical to fill sump