## **UTILITY PLANT DASHBOARD**

Drafted by: Slingshot Consultancy **STATUS DATE:** 21-May-23

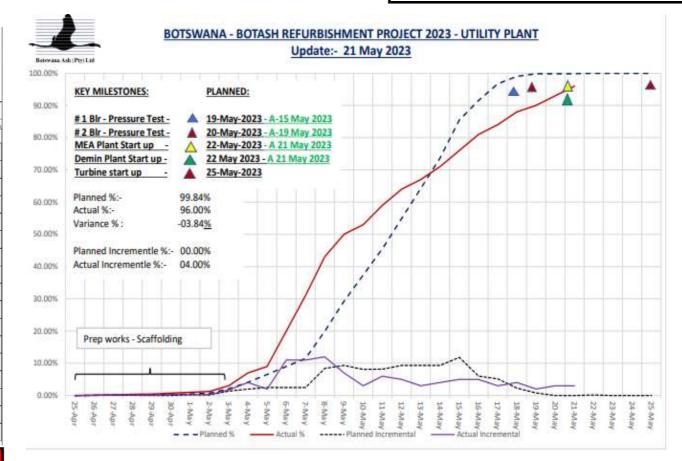
Botash Project - Utility Plant - TARGET SCHEDULE Update 21 May 2023

Drafted by: Slingshot Consultants

D	Task Name	% Complete	Duration	Start	Finish	Actual Start	Actual Finish	Baseline Start	Baseline Finish	Mar	7.1	Apr '23	16 22	May '23	14 21	20
1	BOTSWANA - BOTASH REFURBISHMENT PROJECT 2023 - UTILITY PLANT	96%	690 hrs	Wed 3/15/23	Tue 5/23/23	Wed 3/15	NA	Wed 3/15/23	Mon 5/22/23	20	12 13	20 2 3	10 23	30 7	14 21	20
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					-	-1	
40	SOLAR PONDS COOLING WATER LINE	100%	108.75 h	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	100%	198.75 h	Wed 5/3/23	Mon 5/22/23	Wed 5/3/23	Mon 5/22	Wed 5/3/23	Mon 5/22/23					-	-1	
421	MEA SYSTEM ABSORBTION	100%	663.25 h	Wed 3/15/23	Sat 5/20/23	Wed 3/15	Sat 5/20/23	Wed 3/15/23	Sun 5/21/23					$\overline{}$	-	
610	MEA SYSTEM STRIPPING	100%	183.5 hr	Wed 5/3/23	Sun 5/21/23	Wed 5/3/23	Sun 5/21/23	Wed 5/3/23	Sun 5/21/23	П				-	-	
765	MEA SYSTEM RECLAIMER	100%	106.25 h	Fri 5/5/23	Tue 5/16/23	Fri 5/5/23	Tue 5/16/23	Fri 5/5/23	Tue 5/16/23	П				-	1	
873	#1 BOILER	100%	421.5 hr	Mon 4/10/23	Mon 5/22/23	Mon 4/10	Mon 5/22	Sun 4/30/23	Mon 5/22/23				Н	$\rightarrow$	<b>-</b> 1	
1785	# 2 BOILER	90%	216 hrs	Sun 4/30/23	Sun 5/21/23	Sun 4/30/23	NA	Sun 4/30/23	Sun 5/21/23	П				$\overline{}$	-1	
2538	COAL HANDLING PLANT	74%	159.75 h	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	92%	197.75 h	Wed 5/3/23	Mon 5/22/23	Wed 5/3/23	NA	Wed 5/3/23	Mon 5/22/23					-	-1	
2785	WATER TREATMENT PLANT (DEMIN PLANT)	97%	250.75 h	Thu 4/27/23	Mon 5/22/23	Thu 4/27/23	NA	Thu 4/27/23	Mon 5/22/23				-	$\overline{}$	-1	
3140	INSTRUMENT AIR COMPRESSOR SYSTEM	99%	174.5 hr	Mon 5/1/23	Fri 5/19/23	Mon 5/1/23	NA	Mon 5/1/23	Fri 5/19/23	П				-	-	
3173	STEAM AND CONDENSATE SYSTEM	85%	164.5 hr	Thu 5/4/23	Sat 5/20/23	Thu 5/4/23	NA	Thu 5/4/23	Sat 5/20/23	П				-	-	
3413	TURBINE	96%	160.75 h	Fri 5/5/23	Sun 5/21/23	Fri 5/5/23	NA	Fri 5/5/23	Sun 5/21/23					-	-	
3671	MV RETICULATION	100%	129 hrs	Sat 5/6/23	Thu 5/18/23	Sat 5/6/23	Thu 5/18/23	Mon 5/8/23	Thu 5/18/23					-	-	
4467	LV RETICULATION	100%	61.25 hr	Thu 5/11/23	Thu 5/18/23	Thu 5/11/23	Thu 5/18/23	Thu 5/11/23	Thu 5/18/23					-	-	

UTILITY PLANT KEY MILESTONES	PLANNED	FORECAST	Variance	DAYS TO COMPLETION	TOP 5 RISKS
# 1 Blr Pressure Test	19-May-23	A 15/05/23	-3		
# 2 Blr Pressure Test	20-May-23	A 19/05/23	-1		1) Structural steel
# 1 Blr Fires In	23-May-23	23-May-23	0		2) Soft water Lines
# 2 Blr Fires In	24-May-23	24-May-23	0		3) Condensated Lines
Steam and Condensate on Pressure	23-May-23	23-May-23	0		4) Refractoy
MEA Plant ready for operation	22-May-23	A 18/03/23	-4		5) Stripper
Coal Plant ready for operation	22-May-23	22-May-23	0		

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				Planned %	Actual %		
PLANT SUB-AREA:	Planned	Actual	Variance	Increment	Increment	Risk	
UTILITY PLANT - OVERALL	99.84%	96.00%	-3.84%	0.00%	4.00%		
FLUE GAS DESULPHURISATION	100.00%	100.00%	0.00%	0.00%	0.00%		
MEA SYSTEM ABSORBTION	100.00%	100.00%	0.00%	0.00%	0.00%		
MEA SYSTEM STRIPPING	100.00%	100.00%	0.00%	0.00%	0.00%		
MEA SYSTEM RECLAIMER	100.00%	100.00%	0.00%	0.00%	0.00%		
# 1 BOILER	99.97%	100.00%	0.03%	0.27%	3.00%		
# 2 BOILER	100.00%	90.00%	-10.00%	0.00%	2.00%		
COAL HANDLING PLANT	100.00%	74.00%	-26.00%	0.00%	20.00%		
BOILER PLANT COMMON	97.75%	92.00%	-5.75%	0.82%	0.00%		
WATER TREATMENT PLANT (DEMIN)	99.94%	97.00%	-2.94%	0.57%	9.00%		
INSTRUMENT AIR COMPRESSOR SYSTEM	100.00%	99.00%	-1.00%	0.00%	3.00%		
STEAM AND CONDENSATE SYSTEM	100.00%	85.00%	-15.00%	0.00%	5.00%		
TURBINE	100.00%	96.00%	-4.00%	0.50%	1.00%		
MV RETICULATION	100.00%	100.00%	0.00%	0.00%	1.00%		
LV RETICULATION	100.00%	100.00%	0.00%	0.00%	0.00%		



LOOK AHEAD SCOPE OF WORKS	POSSIBLE RISKS	MITIGATIONS ON RISKS
Boiler 1 furnace - Box up		Low risk
Refractory	Drying - Units to be on load	Note
Coal Handling - Vibrators		
Condensate Water lines	Scaffold issues	To be managed
Common Plant let down station V/Vs		
Compressor housing - Civils works	To complete	
Scaffolding as per schedule	Scaffold removal	Daily management
Blr 1 Coal metering screws	To complete	
Blr 2 Coalflingers to complete	To complete	
Coal Handling Plant - Conveyors	Additional repair works	Can continue after outage
CCW Leak at Turbine	Repair 22 May 2023	
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