

UTILITY PLANT DASHBOARD

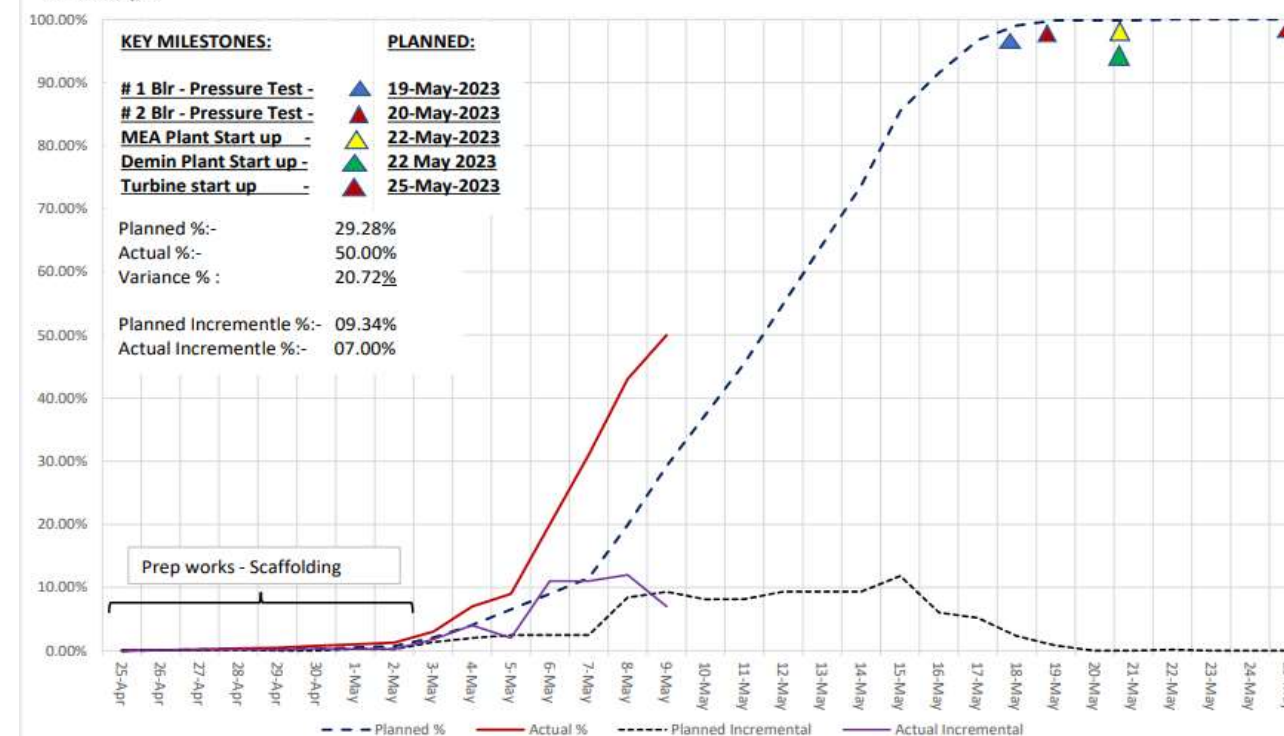
Botash Project - Utility Plant - TARGET SCHEDULE
Update 09 May 2023

Rev 04
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	50%	688.75 h	Wed 3/15/23	Mon 5/22/23	Wed 3/15/23	NA	Wed 3/15/23	Mon 5/22/23	
2	PROJECT MILESTONES	94%	198.75 h	Wed 5/3/23	Mon 5/22/23	Wed 5/3/23	NA	Wed 5/3/23	Mon 5/22/23	
40	SOLAR PONDS COOLING WATER LINE	5%	108.75 h	Mon 5/8/23	Thu 5/18/23	Mon 5/8/23	NA	Mon 5/8/23	Thu 5/18/23	
56	FLUE GAS DESULPHURISATION	78%	198.75 h	Wed 5/3/23	Mon 5/22/23	Wed 5/3/23	NA	Wed 5/3/23	Mon 5/22/23	
421	MEA SYSTEM ABSORBITION	59%	671.5 hr	Wed 3/15/23	Sun 5/21/23	Wed 3/15/23	NA	Wed 3/15/23	Sun 5/21/23	
610	MEA SYSTEM STRIPPING	75%	185 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	18%	106.25 h	Fri 5/5/23	Tue 5/16/23	Fri 5/5/23	NA	Fri 5/5/23	Tue 5/16/23	
873	# 1 BOILER	58%	261.5 hr	Wed 4/26/23	Mon 5/22/23	Wed 4/26/23	NA	Sun 4/30/23	Mon 5/22/23	
1785	# 2 BOILER	37%	210 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	6%	157.75 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	60%	197.75 h	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)	37%	254.5 hr	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	10%	174.5 hr	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	35%	164.5 hr	Thu 5/4/23	Sat 5/20/23	Thu 5/4/23	NA	Thu 5/4/23	Sat 5/20/23	
3413	TURBINE	59%	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	47%	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	52%	61.25 hr	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:- 09 May 2023



UTILITY PLANT KEY MILESTONES	PLANNED	FORECAST	Variance	DAYS TO COMPLETION	TOP 5 RISKS	
# 1 Blr Pressure Test	19-May-23	18-May-23	1	13	1) No 2 FD Casing 2) Lean tank roof 3) Soft water Lines 4) Condensated Lines 5) Refractory 6) Pressure Valves	
# 2 Blr Pressure Test	20-May-23	18-May-23	2			
# 1 Blr Fires In	22-May-23	22-May-23	0			
# 2 Blr Fires In	22-May-23	22-May-23	0			
Steam and Condensate on Pressure	20-May-23	20-May-23	0			
MEA Plant ready for operation	21-May-23	19-May-23	2			
Coal Plant ready for operation	20-May-23	23-May-23	-3			
PLANT SUB-AREA:	Planned	Actual	Variance	Planned % Increment	Actual % Increment	Risk
UTILITY PLANT - OVERALL	29.28%	50.00%	20.72%	9.34%	7.00%	
FLUE GAS DESULPHURISATION	68.80%	78.00%	9.20%	6.07%	1.00%	
MEA SYSTEM ABSORBITION	44.46%	59.00%	14.54%	4.81%	9.00%	
MEA SYSTEM STRIPPING	17.72%	75.00%	57.28%	5.21%	8.00%	
MEA SYSTEM RECLAIMER	46.96%	18.00%	-28.96%	15.65%	1.00%	
# 1 BOILER	55.71%	58.00%	2.29%	20.35%	9.00%	
# 2 BOILER	18.79%	37.00%	18.21%	6.75%	6.00%	
COAL HANDLING PLANT	25.99%	6.00%	-19.99%	7.42%	1.00%	
BOILER PLANT COMMON	37.39%	60.00%	22.61%	1.43%	17.00%	
WATER TREATMENT PLANT (DEMIN)	17.95%	37.00%	19.05%	9.16%	3.00%	
INSTRUMENT AIR COMPRESSOR SYSTEM	43.84%	10.75%	-33.09%	5.60%	0.75%	
STEAM AND CONDENSATE SYSTEM	12.87%	35.00%	22.13%	2.70%	14.00%	
TURBINE	24.79%	59.00%	34.21%	8.99%	4.00%	
MV RETICULATION	3.58%	47.00%	43.42%	1.99%	0.00%	
LV RETICULATION	0.00%	52.00%	50.00%	0.00%	0.00%	

LOOK AHEAD SCOPE OF WORKS	POSSIBLE RISKS	MITIGATIONS ON RISKS
Solar ponds - Cooling water		
SO2 Absorber		
A & B FG Booster fan - Silencer		
A & B FG Booster fan - Bottom casings	No 2 Casing deliver	Track deliver
# A & B Booster Fans - E & I		
Lean Rich & Cool Heat exchanger		
Lean & rich Solution pumps	Lean Tank roof	Close monitor
CO2 Stripperr & Seperator works		
Condensate Water lines	Repairs on fabricated lines	Repair on site? (Not W/S)
A & B Reboiler works		
Compressor silencers		
Blr 1 & 2 ID Fans		
Babcock SOW - Blr 1 & 2		
Compressor housing - Civils works		
Scaffolding as per schedule		
Coal handling conveyors structures		
Bunker 2 painting works		
Bunker 1 skin casing replacement		
Blr 1 & 2 Lagging repairs		
Blr 1 & 2 Baghouse repairs		
Blr 2 Bagfilter - Bags		
Pressure valves	Late completion	Prioritise