



UTILITY PLANT DASHBOARD

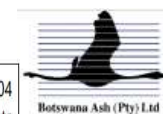
Drafted by: Slingshot Consultancy
STATUS DATE: 10-May-23



Botash Project - Utility Plant - TARGET SCHEDULE
Update 10 May 2023

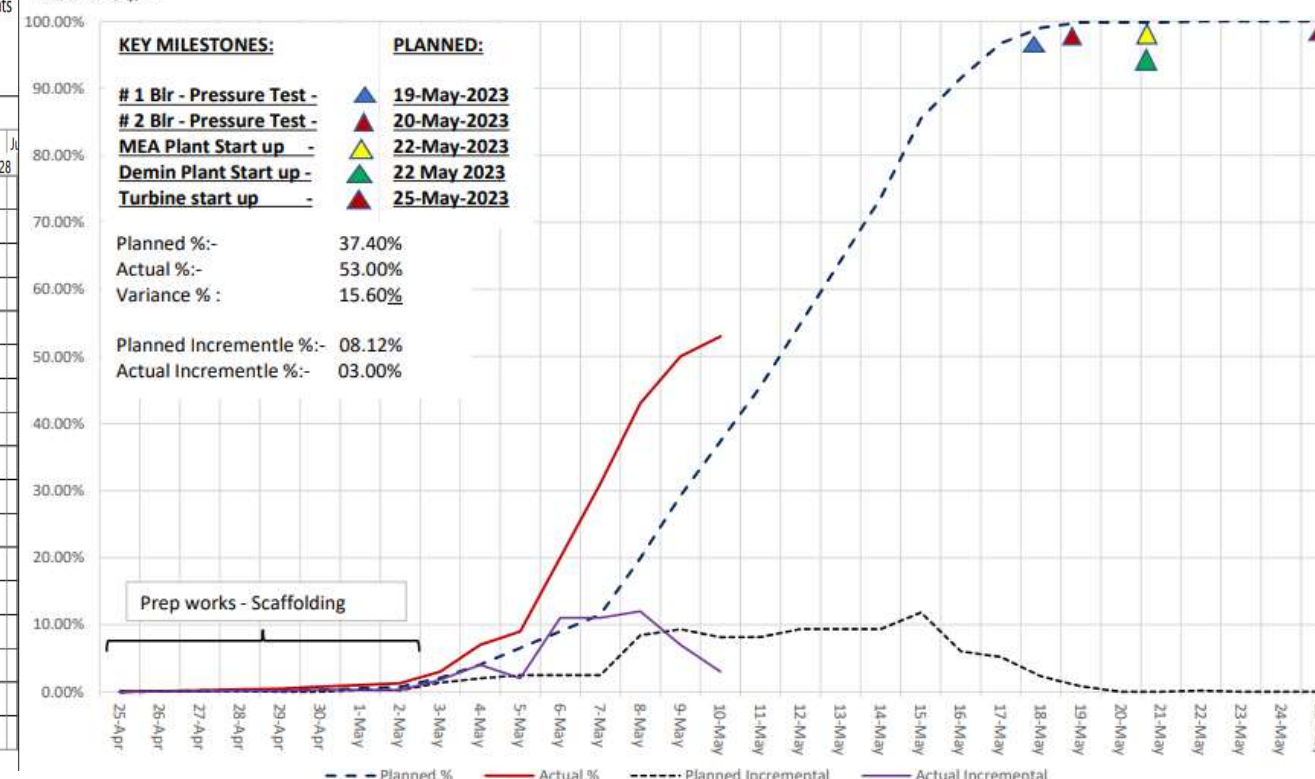
Rev 04
Drafted by: Slingshot Consultants

ID	Task Name	% Complete	Duration	Start	Finish	Actual Start	Actual Finish	Baseline Start	Baseline Finish	Mar '23	Apr '23	May '23	Jun '23
1	BOTSWANA - BOTASH REFURBISHMENT PROJECT 2023 - UTILITY PLANT	53%	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	80%	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 ABSORBTION	62%	669.25 h	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	79%	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	60%	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	39%	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	9%	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	61%	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)	42%	250.75 h	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	12%	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	38%	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	62%	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	63%	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	61%	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

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UTILITY PLANT KEY MILESTONES	PLANNED	FORECAST	Variance	DAYS TO COMPLETION	TOP 5 RISKS	
# 1 Blr Pressure Test	19-May-23	20-May-23	-1	12	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	23-May-23	-1			
# 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	37.40%	53.00%	15.60%	9.34%	3.00%	
FLUE GAS DESULPHURISATION	73.37%	80.00%	6.63%	6.07%	2.00%	
MEA SYSTEM ABSORBTION	50.05%	62.00%	11.95%	4.81%	3.00%	
MEA SYSTEM STRIPPING	27.09%	79.00%	51.91%	5.21%	4.00%	
MEA SYSTEM RECLAIMER	58.60%	18.00%	-40.60%	15.65%	0.00%	
# 1 BOILER	65.78%	60.00%	-5.78%	20.35%	2.00%	
# 2 BOILER	26.61%	39.00%	12.39%	6.75%	2.00%	
COAL HANDLING PLANT	33.41%	9.00%	-24.41%	7.42%	3.00%	
BOILER PLANT COMMON	45.35%	61.00%	15.65%	1.43%	1.00%	
WATER TREATMENT PLANT (DEMIN)	29.04%	42.00%	12.96%	9.16%	5.00%	
INSTRUMENT AIR COMPRESSOR SYSTEM	50.84%	12.00%	-38.84%	5.60%	1.25%	
STEAM AND CONDENSATE SYSTEM	17.02%	38.00%	20.98%	2.70%	3.00%	
TURBINE	32.96%	62.00%	29.04%	8.99%	3.00%	
MV RETICULATION	7.42%	63.00%	55.58%	1.99%	16.00%	
LV RETICULATION	0.00%	52.00%	52.00%	0.00%	9.00%	

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		
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	Not required?	
Blr 1 & 2 Baghouse repairs		
Blr 2 Bagfilter - Bags		
Pressure valves	Late completion	Prioritise