



## UTILITY PLANT DASHBOARD

Drafted by: Slingshot Consultancy  
STATUS DATE: 6-May-23



Botash Project - Utility Plant - TARGET SCHEDULE  
Update 06 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	20%	689.25 hrs	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%	199.25 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	0%	108.75 h	Mon 5/8/23	Thu 5/18/23	NA	NA	Mon 5/8/23	Thu 5/18/23	
56	FLUE GAS DESULPHURISATION	47%	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	31%	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	9%	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	17%	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	29%	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	18%	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	1%	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	0%	197.75 h	Wed 5/3/23	Mon 5/22/23	NA	NA	Wed 5/3/23	Mon 5/22/23	
2785	WATER TREATMENT PLANT (DEMIN PLANT)	11%	258.5 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	8%	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	1%	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	13%	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	12%	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	40%	61.25 hr	Thu 5/11/23	Thu 5/18/23	Thu 5/11/23	NA	Thu 5/11/23	Thu 5/18/23	

UTILITY PLANT KEY MILESTONES	PLANNED	FORECAST
# 1 Blr Pressure Test	19-May-23	19-May-23
# 2 Blr Pressure Test	20-May-23	20-May-23
# 1 Blr Fires In	22-May-23	22-May-23
# 2 Blr Fires In	22-May-23	22-May-23
Steam and Condensate on Pressure	20-May-23	20-May-23
MEA Plant ready for operation	21-May-23	21-May-23
Coal Plant ready for operation	20-May-23	20-May-23

### DAYS TO COMPLETION

16

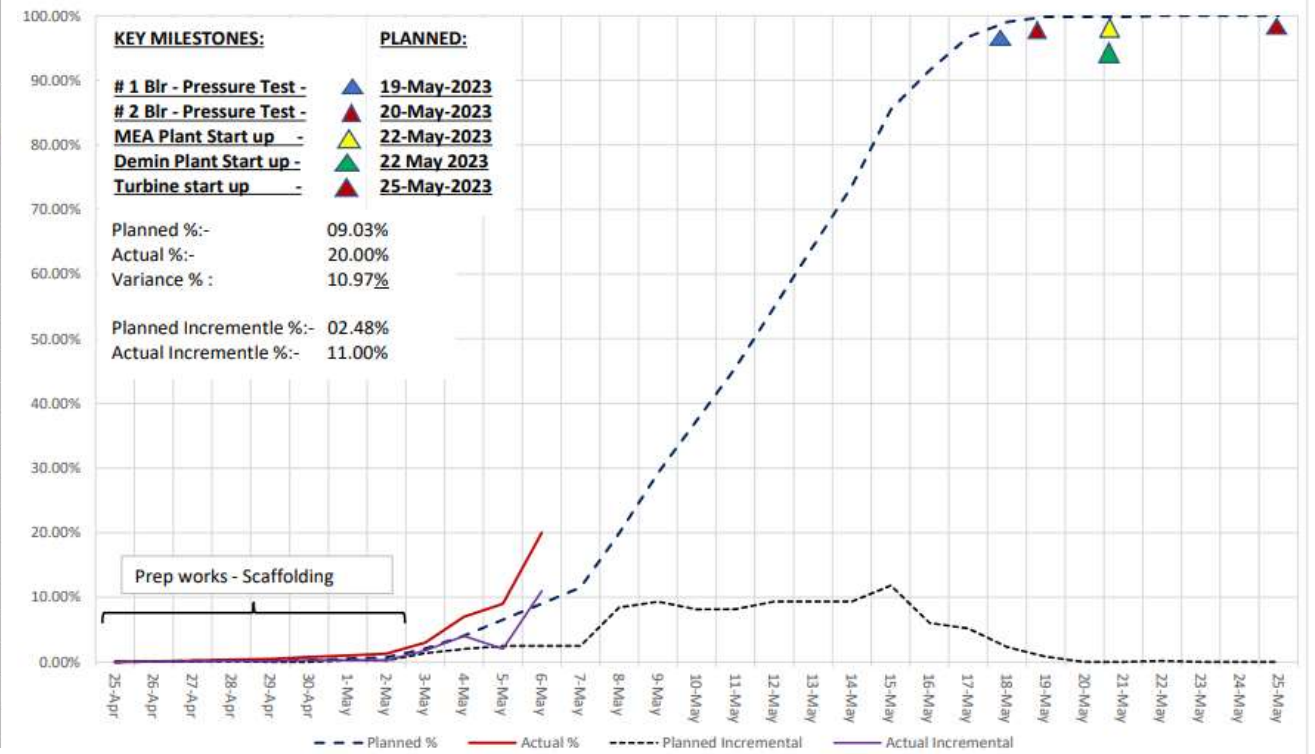
### TOP 5 RISKS

- 1) Late material deliveries
  - 2) Lack of resources
  - 3) Equipment availability
  - 4) Quality
  - 5) Works execution risks
- Based on spares available

PLANT SUB-AREA:	Planned	Actual	Variance	Planned % Increment	Actual % Increment	Risk
UTILITY PLANT - OVERALL	9.03%	20.00%	10.97%	2.48%	11.00%	
FLUE GAS DESULPHURISATION	38.77%	47.00%	8.23%	12.21%	2.00%	
MEA SYSTEM ABSORBTION	23.55%	31.00%	7.45%	0.00%	7.00%	
MEA SYSTEM STRIPPING	8.82%	9.00%	0.18%	1.98%	0.00%	
MEA SYSTEM RECLAIMER	0.00%	17.00%	17.00%	0.00%	17.00%	
# 1 BOILER	13.36%	29.00%	15.64%	4.06%	14.00%	
# 2 BOILER	4.20%	18.00%	13.80%	1.19%	16.75%	
COAL HANDLING PLANT	6.26%	1.00%	-5.26%	4.64%	1.00%	
BOILER PLANT COMMON	26.97%	0.00%	-26.97%	7.35%	0.00%	
WATER TREATMENT PLANT (DEMIN)	3.74%	11.00%	7.26%	1.02%	11.00%	
INSTRUMENT AIR COMPRESSOR SYSTEM	24.16%	8.00%	-16.16%	5.76%	6.50%	
STEAM AND CONDENSATE SYSTEM	5.60%	1.00%	-4.60%	1.97%	1.00%	
TURBINE	4.64%	13.00%	8.36%	3.63%	6.00%	
MV RETICULATION	0.00%	12.00%	12.00%	0.00%	2.00%	
LV RETICULATION	0.00%	40.00%	5.00%	0.00%	10.00%	



### BOTSWANA - BOTASH REFURBISHMENT PROJECT 2023 - UTILITY PLANT Update:- 06 May 2023



LOOK AHEAD SCOPE OF WORKS	POSSIBLE RISKS	MITIGATIONS ON RISKS
Unit #2 Washing		
Turbine run down and cool off		
Operations - area cleaning and draining		
# A & B Booster Fans		
# A & B FD Fans		
A & B Reboiler works commence		
Blr 1 & 2 Boiler Sparge pipes		
Blr 1 & 2 Coal Flingers - Commence		
Blr 1 & 2 Steam Drum & Valves		
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		