

APPENDIX 6: IMPACT ASSESSMENT MATRIX

-		AIR QUALITY							
Project Activity		Air Quality		Likelihood		Consequence			
All mining activities which	Phase of Project	Construction Phase	Frequency of Activity	Frequency of Impact	Severity	Spatial Scope	Duration	Significance Ratin	
generate particulate emissions	Impact Classification	Negative -Direct Impact			Significance 3	Pre-Mitigation			
(underground)	Resulting Impact from Activity	Elevated PM10 and PM2.5 Concentrations	4	3	Significance F	2 Post- Mitigatio	4 on	63	
			4	3	2	1	4	49	
Project Activity		Air Quality	Likol	ihood	1	Consequence		1	
Project Activity	Dhoop of Droiget	1	Frequency of	Frequency of		Spatial	ı	Significance Ratin	
Mining, Material Handling and Transportation	Phase of Project	Operational Phase	Activity	Impact	Severity	Scope	Duration		
	Impact Classification	Negative- Direct Impact	Significance Pre-Mitigation				63		
(underground)	Resulting Impact from Activity	Elevated Dust Fall Levels	4 3 3 2 4 Significance Post- Mitigation					63	
			4	3	2	1	4	49	
		GROUNDWATER							
Project Activity		Geohydrology	Likel	ihood		Consequence			
, ,	Phase of Project	Operational	Frequency of	Frequency of	Severity	Spatial	Duration	Significance Ratin	
-	Impact Classification	Negative - Direct Impact	Activity	Impact		Scope Pre-Mitigation			
Mine dewatering	impact classification	· ·	4	4	4	3	4	88	
	Resulting Impact from Activity	Lowering of groundwater levels in private boreholes, thus affecting the performance of the boreholes that fall			Significance Post- Mitigation				
		within the dewatering cone	4	4	2	3	4	72	
Project Activity		Geohydrology	Likel	ihood		Consequence			
	Phase of Project	Operational	Frequency of Activity	Frequency of Impact	Severity	Spatial	Duration	Significance Rating	
	Impact Classification	Negative - Direct Impact	Activity	IIIIpact	Significance Pre-Mitigation		I		
Underground mining			4	4	3	2	2 5 80		
	Resulting Impact from Activity Contamination of groundwater in private bor making the groundwater unfit for use	Contamination of groundwater in private boreholes,	Significance Post- Mitigation						
		making the groundwater untit for use	4	3	2	2	4	56	
L				ı	<u>l</u>		<u>l</u>		
Project Activity		Geohydrology	Likel	ihood		Consequence			
	Phase of Project	Closure and Decommissioning	Frequency of	Frequency of	Severity	Spatial	Duration	Significance Ratir	
Underground mining	Impact Classification	Negative - Direct Impact	Activity	Impact	Scope Significance Pre-Mitigation			J	
onderground mining	Resulting Impact from Activity	Contamination of groundwater in private boreholes,	1 2 3 2 Significance Post- Mitigation			5	30		
	Resulting impact from Activity	making the groundwater unfit for use	1	2	2	2	4	24	
		CULTURAL HERITAGE							
Project Activity	Cultural Heritage	e (Archaeology and Palaeontology)		ihood		Consequence		Significance Ratin	
	Phase of Project	Preparation - Closure Phase	Frequency of Activity	Frequency of Impact	Severity	Spatial Scope	Duration	Significance Ratin	
Underground mining	Impact Classification	Negative - Direct Impact	Significance Pre		ance Pre-Mitigation				
gg	Resulting Impact from Activity	Disturbance/Loss of Significant Archaeological or Cultural	2	2	2 Significance F	1 Post-Mitigatio	5 n	32	
		Heritage Sites/Remains	2	1	2	1	5	24	
		BLASTING AND VIBRATION							
Project Activity	BI	asting and Vibration	Likel	ihood	ı	Consequence		l	
	Phase of Project	Preparation, Construction and Operational Phases	Frequency of	Frequency of	Severity	Spatial	Duration	Significance Ratin	
Blast-induced ground vibration	Impact Classification	Negative - Direct Impact	Activity	Impact		Scope Pre-Mitigation		<u> </u>	
damage to buildings closer than 500 m from blasting	Minor damage to buildings (real or percieved by building	4	3	2	3	4	63		
	Resulting Impact from Activity	owners) in the form of cracks in walls			Significance F	ost- Mitigatio	on		

Impact Matrix

Minor damage to buildings (real or percieved by building owners) in the form of cracks in walls

Preparation, Construction and Operational Phases

Serious to fatal injury or damage to property and infrastructure caused by uncontrolled fly rock

Frequency of

Activity

Frequency of

Impact

Spatial

Scope

Duration

Significance Rating

Blasting and Vibration

Phase of Project

Resulting Impact from Activity

Project Activity

Blast-induced ground vibration damage to buildings farther than

500 m from blasting

All activities involving employment and procurement of goods and services. Positive - Direct and indirect Activity Local employment Local employment Activity Local employment Local employment Local employment Local employment Local employment Local empl			SOCIO-ECONOMIC							
All achides involving employment and procurement of goods and services All achides involving employment and procurement of goods and services Phase of Project All achides involving employment All achides in	Project Activity		Socio-Economic	Likelihood		Consequence			1	
Positive	All and the land	Phase of Project					Spatial		Significance Ratin	
Securing Impact from Activity Sociol - Connemic 4		Impact Classification	Positive - Direct and indirect	Activity	Impact	Significance		n .	<u>l</u>	
Solvices Significance Post Mitigation Significance Post M				4	4	<u> </u>			88	
District Activity	services	3 1				ost- Mitigatio	on			
Phase of Project All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All				4	5	5	3	4	108	
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Socio-Economic Significance Part-Mitigation Phase of Project All Phase of Project Al	services	Resulting impact from Activity	Local economic development	3		Significance F	Post- Mitigatio		77	
Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Project Activity Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment and procurement of goods and services Phase of Project All I activities involving employment				3	5				96	
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Services Significance Socio-Economic Socio-Economic Socio-Economic Significance Socio-Economic Socio-Economic	and procurement of goods and			-		Significance	Pre-Mitigatio		00	
roject Activity	services	Resulting Impact from Activity	Training and development	5	4	Significance E	Oct Mitigatio	Ü	99	
Troject Activity All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All activities involving employment and procurement of goods and services All				5	5				120	
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and procurement of goods and services Resulting Impact Classification Resulting Impact from Activity Community infrastructure development Resulting Impact from Activity Froject Activity Socio-economic All Frequency of Frequency of Frequency of Impact Servicty Resulting Impact from Activity Phase of Project All Negative - Direct and indirect Project Activity Resulting Impact from Activity Resulting Impact from Activity Resulting Impact from Activity Resulting Impact from Activity All activities involving employment and procurement of goods and services Project Activity Project Activity Resulting Impact from Activity Phase of Project All Frequency of Frequency of Frequency of Frequency of Severity Scope Duration Significance Pre-Mitigation Significance Pre-Mitigation Consequence Significance Pre-Mitigation Consequence Significance Pre-Mitigation Consequence Phase of Project All Impact Classification Resulting Impact from Activity Resulting Impact Classification Resultin	All activities involving employment	Phase of Project		Activity	Impact	,				
Resulting Impact from Activity		Impact Classification	Positive - Direct and indirect			Significance Pre-Mitigation				
Resulting impact from Activity All activities involving employment and procurement of goods and services Project Activity Resulting Impact Classification Resulting Impact Classification Negative - Direct and indirect Phase of Project All Phase of Project activity Resulting Impact Classification Negative - Direct and indirect Project Activity Socio-Economic Phase of Project All Phase of Project All All Phase of Project Activity Phase of Project All Phase of Project All Classification Negative - Direct and indirect Resulting Impact Phase of Project All activities involving employment and procurement of goods and services Resulting Impact from Activity Resulting Impact from Activity Resulting Impact Classification Negative - Direct and indirect Resulting Impact from Activity Res				3				70		
roject Activity	30.11003	Resulting Impact from Activity Community infrastructure development			-	<u> </u>				
Phase of Project Activity Phase of Project All Activities involving employment and procurement of goods and services Phase of Project All Phase of Project Phase of Project All Phase of Project Phase of Project All Phase of Project Phase of Project Phase of Project All Phase of Project Phase of Project All Phase of Project Phase of Project Phase of Project All Phase of Project Phase of Project Phase of Project All Phase of Project Phas				3	5	3	3	5	88	
Phase of Project Activity Phase of Project All Phase of Project Activity Impact Classification Phase of Project Activity Phase of Project All Phase of Project Activity Phase of Project All Influx of job seekers - demand on municipal services Project Activity Phase of Project Project Activity Phase of Project All Influx of job seekers - demand on municipal services Phase of Project All Influx of job seekers - demand on municipal services Phase of Project All Influx of job seekers - demand on municipal services Phase of Project All Influx of job seekers - demand on municipal services Influx of job seekers - demand on municipal services Phase of Project All Influx of job seekers - demand on municipal services Influx of job seekers - demand on municipal services All activities involving employment and procurement of goods and services Impact Classification Phase of Project All Influx of job seekers - demand on municipal services All activities involving employment and procurement of goods and services Impact Classification Phase of Project All Influx of job seekers - demand on municipal services All Influx of job seekers - demand on municipal services 3 5 3 3 2 56 Significance Pre-Mitigation Significance Prost-Mitigation Signifi	roject Activity		Socio-economic	Likel	ihood		Consequence			
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Resulting Impact from Activity Coal inflation Project Activity Socio-Economic Likelihood Consequence		impact olassification	Preservation indirect	3	5				64	
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Phase of Project Activity Phase of Project All Phase of Project All Phase of Project Phase of Pr				•						
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Resulting Impact from Activity Influx of job seekers - demand on municipal services 3 4 3 3 2 56 Project Activity Socio-Economic Likelihood Consequence Phase of Project All activities involving employment and procurement of goods and services Impact Classification Negative - Direct and indirect Significance Post- Mitigation Consequence Frequency of Activity Impact Severity Severity Severity Socope Significance Project Significance Post- Mitigation Significance Post- Miti	and procurement of goods and	impact classification	Negative - Direct and Indirect	2	E				70	
Project Activity Socio-Economic Likelihood Consequence All All Phase of Project All activities involving employment and procurement of goods and services Services Services 3 4 3 3 2 56 Consequence Frequency of Frequency of Activity Impact Severity Severity Severity Scope Duration Duration Significance Ratin Significance Pre-Mitigation Services 3 5 4 3 3 80	services	Resulting Impact from Activity Influx of job seel	Influx of job seekers - demand on municipal services						12	
Project Activity Socio-Economic Likelibod Consequence Frequency of Activity Spatial Scope Duration Activity Impact Classification Negative - Direct and indirect Services Services Significance Pre-Mittigation Significance Pre-Mittigation Significance Pre-Mittigation Significance Pre-Mittigation Services Significance Pre-Mittigation				3	4				56	
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All activities involving employment and procurement of goods and services Activity Impact Severity Scope Duration Duration Duration Severity Severity Scope Duration Severity Severity	Project Activity		Socio-Economic	Likel	ihood		Consequence			
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services 3 5 4 3 3 80		Impact Classification	Negative - Direct and indirect			Significance		n .	I	
		impact Glassification	Direct and indirect	3	5	4	3		80	
	services	Resulting Impact from Activity Influx	Influx of job seekers - disruption in community dynamics			Significance F	ost- Mitigatio			

Impact Matrix 2

Project Activity		Socio-economic		ihood	(Consequence		
	Phase of Project	All	Frequency of Activity	Frequency of Impact	Severity	Spatial Scope	Duration	Significance Rating
	Impact Classification	Negative - Direct			Significance I	Pre-Mitigatio	n	
All mine-related activities	•	Mine health and safety	4	5	5	3	4	108
	Resulting Impact from Activity				Significance P	ost- Mitigatio	on	
		-	3	3	5	3	4	72
Dool and Androller		Carla Farancia	191	UI		0		1
Project Activity		Socio-Economic	Likelihood		,	Consequence	Ciifi D-ti	
	Phase of Project	All	Frequency of Activity	Frequency of Impact	Severity	Spatial Scope	Duration	Significance Rating
	Impact Classification	Negative - Direct	Significance Pre-Mitigation				n	
All mine-related activities	•		4 4 5 2 4			88		
	Resulting Impact from Activity	Security risk		•	Significance Post- Mitigation			
			2	3	5	2	4	55
		•		•				
Project Activity		Socio-Economic	Likel	ihood	(Consequence		
	Phase of Project		Frequency of	Frequency of		Spatial		Significance Rating
		Construction and Operational	Activity	Impact	Severity	Scope	Duration	
All soles and the distribution	Impact Classification	Positive - Direct and indirect			Significance I	Pre-Mitigatio	n	I
All mine-related activities			3	4	3	3	4	70
	Resulting Impact from Activity Contributi	Contribution of royalties, rates and taxes			Significance P	Post- Mitigatio	on	·
			3	4	3	3	4	70
								70
Project Activity		Socio-Economic	Likel	ihood		Consequence)	
	Phase of Project All		Frequency of	Frequency of		Spatial		Significance Rating
		All	Activity	Impact	Severity	Scope	Duration	
					Significance Pre-Mitigation			
	Impact Classification	Negative - Direct and indirect			Significance I			
All mine-related activities	Impact Classification	Negative - Direct and indirect	4	5	Significance I	3	4	108
All mine-related activities	•		4	5	5	3	4	108
All mine-related activities	Impact Classification Resulting Impact from Activity	Negative - Direct and indirect Community health and safety			5 Significance P	3 Post- Mitigatio	4 on	,00
All mine-related activities	•		2	5	5	3	4	108
	•		2		5 Significance P	3 Post- Mitigatio	4 on 4	100
All mine-related activities Project Activity	Resulting Impact from Activity	Community health and safety Socio-Economic	2 Likel	2 ihood	5 Significance P 5	3 Post- Mitigation 3	4 on 4	48
	•	Community health and safety	2 Likel Frequency of	2 ihood Frequency of	5 Significance P	3 Post- Mitigation 3 Consequence Spatial	4 on 4	,00
Project Activity	Resulting Impact from Activity Phase of Project	Community health and safety Socio-Economic Decommissioning and Closure	2 Likel	2 ihood	5 Significance P 5 Severity	3 Post- Mitigatio 3 Consequence Spatial Scope	4 de Duration	48
	Resulting Impact from Activity	Community health and safety Socio-Economic Decommissioning and Closure Negative - Direct and indirect	2 Likel Frequency of Activity	2 ihood Frequency of Impact	5 Significance P 5 Severity Significance I	3 Post- Mitigatio 3 Consequence Spatial Scope Pre-Mitigatio	4 don 4 don 4 don 4 don	48 Significance Rating
Project Activity	Resulting Impact from Activity Phase of Project Impact Classification	Community health and safety Socio-Economic Decommissioning and Closure	2 Likel Frequency of	2 ihood Frequency of	5 Significance P 5 Severity Significance I 5	3 Post- Mitigation 3 Consequence Spatial Scope Pre-Mitigation 3	4 on 4 on Duration n 5	48
Project Activity	Resulting Impact from Activity Phase of Project	Community health and safety Socio-Economic Decommissioning and Closure Negative - Direct and indirect	2 Likel Frequency of Activity	2 ihood Frequency of Impact 5	5 Significance P 5 Severity Significance I 5 Significance P	3 Post- Mitigatio 3 Consequence Spatial Scope Pre-Mitigatio 3 Post- Mitigatio	4 on 4 on Duration n 5 on	48 Significance Rating
Project Activity	Resulting Impact from Activity Phase of Project Impact Classification	Community health and safety Socio-Economic Decommissioning and Closure Negative - Direct and indirect Mine closure and associated effects on the local	2 Likel Frequency of Activity	2 ihood Frequency of Impact	5 Significance P 5 Severity Significance I 5	3 Post- Mitigation 3 Consequence Spatial Scope Pre-Mitigation 3	4 on 4 on Duration n 5	48 Significance Rating
Project Activity	Resulting Impact from Activity Phase of Project Impact Classification Resulting Impact from Activity	Community health and safety Socio-Economic Decommissioning and Closure Negative - Direct and indirect Mine closure and associated effects on the local economy MEERKAT/SKA OBSERVATORY	Likel Frequency of Activity 1	2 ihood Frequency of Impact 5	Significance P 5 Severity Significance I 5 Significance P 3	3 Consequence Spatial Scope Pre-Mitigatio 3 Ost- Mitigatio 3 Ost- Mitigatio 3	4 on 4 on 4 on 5 on 5 on 5 on 5 on 5 on	48 Significance Rating
Project Activity	Resulting Impact from Activity Phase of Project Impact Classification Resulting Impact from Activity	Community health and safety Socio-Economic Decommissioning and Closure Negative - Direct and indirect Mine closure and associated effects on the local economy	Likel Frequency of Activity 1	2 ihood Frequency of Impact 5	Significance P 5 Severity Significance I 5 Significance P 3	3 Post- Mitigatio 3 Consequence Spatial Scope Pre-Mitigatio 3 Post- Mitigatio	4 on 4 on 4 on 5 on 5 on 5 on 5 on 5 on	48 Significance Rating
Project Activity All mine-related activities Project Activity	Resulting Impact from Activity Phase of Project Impact Classification Resulting Impact from Activity	Community health and safety Socio-Economic Decommissioning and Closure Negative - Direct and indirect Mine closure and associated effects on the local economy MEERKAT/SKA OBSERVATORY	2 Likel Frequency of Activity 1 1 Likel Frequency of	2 ihood Frequency of Impact 5 5 ihood Frequency of	Significance P 5 Severity Significance I 5 Significance P 3	3 Scost- Mitigatie 3 Consequence Spatial Scope Pre-Mitigatie 3 Sost- Mitigatie 3 Consequence Spatial Scope S	4 on 4 on 4 on 5 on 5 on 5 on 5 on 5 on	48 Significance Rating
Project Activity All mine-related activities Project Activity Operating of mine equipment and	Resulting Impact from Activity Phase of Project Impact Classification Resulting Impact from Activity E Phase of Project	Community health and safety Socio-Economic Decommissioning and Closure Negative - Direct and indirect Mine closure and associated effects on the local economy MEERKAT/SKA OBSERVATORY M and RF Interference All phases of project	Likel Frequency of Activity 1 1 Likel	2 ihood Frequency of Impact 5 5	Significance P 5 Severity Significance I 5 Significance P 3 Significance P 3 Severity	3 Sost- Mitigatic 3 Consequence Spatial Scope Pre-Mitigatic 3 Sost- Mitigatic 3 Consequence Spatial Scope	Duration Duration Duration	Significance Rating 78 66
Project Activity All mine-related activities Project Activity Operating of mine equipment and machinery, including	Resulting Impact from Activity Phase of Project Impact Classification Resulting Impact from Activity	Community health and safety Socio-Economic Decommissioning and Closure Negative - Direct and indirect Mine closure and associated effects on the local economy MEERKAT/SKA OBSERVATORY M and RF Interference	Likel Frequency of Activity 1 1 Likel Frequency of Activity	2 ihood Frequency of Impact 5 5 ihood Frequency of Impact	Significance P 5 Severity Significance I 5 Significance P 3 Severity Significance P 3 Severity Significance P	3 Scost- Mitigatie 3 Consequence Spatial Scope Pre-Mitigatie 3 Sost- Mitigatie 3 Consequence Spatial Scope S	Duration 5 Duration 5 Duration	Significance Rating 78 66
Project Activity All mine-related activities Project Activity Operating of mine equipment and	Resulting Impact from Activity Phase of Project Impact Classification Resulting Impact from Activity E Phase of Project	Community health and safety Socio-Economic Decommissioning and Closure Negative - Direct and indirect Mine closure and associated effects on the local economy MEERKAT/SKA OBSERVATORY M and RF Interference All phases of project	2 Likel Frequency of Activity 1 1 Likel Frequency of	2 ihood Frequency of Impact 5 5 ihood Frequency of	Significance P 5 Severity Significance I 5 Significance P 3 Significance P 3 Severity	3 Sost- Mitigatio 3 Consequence Spatial Scope Pre-Mitigatio 3 Consequence Spatial Scope Pre-Mitigatio 5 Sope Spatial Scope Pre-Mitigatio 5 Sope Fre-Mitigatio 5 Sope	Duration 5 Duration 5 Duration 4	Significance Rating 78 66

Impact Matrix 3