

NAME OF APPLICANT: Solium Energy (Pty) Ltd

REFERENCE NUMBER:

PROSPECTING WORK PROGRAMME

SUBMITTED FOR A PROSPECTING RIGHT

APPLICATION WITHOUT BULK SAMPLING

AS REQUIRED IN TERMS OF SECTION 16 READ TOGETHER WIITH REGULATION 7(1) OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT (ACT 28 of 2002)

STANDARD DIRECTIVE

All applicants for prospecting right are herewith, in terms of the provision of Section 16 and in terms of Regulation 7(1) of the Mineral and Petroleum Resources Development Act, directed to submit a Prospecting Work Programme, strictly under the following headings and in the following format together with the application for a prospecting Right.

1. REGULATION 7(1) (a): The full particulars of the applicant.

Head Office

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Postal Address	: 24 Minerva Avenue, Sandton, 2196

2. REGULATION 7(1) (b): The plan contemplated in Regulation 2 (2), showing the land to which the application relates.



3. REGULATION 7(1) (c): The registered description of the land to which the application relates specifying the farm name and subdivision.

The land cover 5 adjacent farms in the Magisterial District of Namaqualand, Northern Cape Province.

Registered Description	Farm Name	Farm Number	Parcel Number	Area (Hectares)
KAMAGGAS No. 200	Kamaggas	200	N062C05300000	59975
			0000200000000	
DRIE RIVIER No. 268	Drie Rivier	268	N062C05300000	5133
			0000268000000	
POLLY`S KLOOF No. 267	Polly's Kloof	267	N062C05300000	7487
			0000267000000	
SANNAGAS No. 269	Sannagas	269	N062C05300000	6826
			0000269000000	
KLIPFONTEIN No. 266	Klipfontein	266	N062C05300000	9342
			0000266000000	

4. REGULATION 7(1) (d) and (e): The mineral or minerals to be prospected for and a geological description of the land substantiated by geological map.

Minerals to be prospected.

Type of Mineral(s)	: Uranium Ore
Locality	: 30 km west of Springbok Town
Extent of the area required for Prospecting	: 88 763 Hectares
Geological Formation	: Namaqualand Metamorphic Complex

Geology

Foliated granites, granitic orthogneisses and late- to post-tectonic granites are extensively represented in all the metamorphic zones (Geology Map below), including the high-T granulite-facies (aged 1033 Ma, 1200 Ma, 1060 Ma and1030 Ma). Heat produced during radioactive decay in these rocks was largely responsible for their metamorphic conditions, especially where granulite and charnockite formation was promoted by the circulation of U–Th–REE-rich, H₂O-deficient fluids and melts. Hosts granulite-facies granitic plutons with the highest concentrations of heat-producing elements (K, U and Th). There are also numerous late-stage smaller intrusions of U-rich leucogranite that may constitute potential resources of uranium.



5. REGULATION 7(1) (f): A description of how the mineral resource and mineral description of the prospecting area will be determined.

AND

REGULATION 7(1) (h): All planned prospecting activities must be conducted in phases and within specific timeframes.

AND

REGULATION 7(1) (i): Technical data detailing the prospecting method or methods to be implemented and the time required for each phase of the prospecting operation.

The Table 5.1 below incorporates the information required in respect of Regulation 7(1) (f), (h) and (i).

Phase	Activities	Outcomes	Schedule	Skills and Qualified
			(Timeframe)	Persons
1	Desktop Study –	Gather information	Month 1 to 12 (12	5-year experienced
	Obtain and interpret	about historic mines	Months/1 year)	Geologist
	historic data	and mineralisation in		
		the area, and		
		characterise		
		geological features		
2	Reconnaissance site	Understand the	Month 13 to 24 (12	5-year experienced
	visit, surface	regional geology and	Months/1 year)	Geologist/Geophysicist
	Mapping and	generate ore deposit		
	Radiometric survey	target		
3	Target drilling of 20	Define the ore	Month 25 to 36 (12	5-year experienced
	boreholes to a depth	deposit in 3D and	Months/1 year)	Geologist/Resource
	of 500m	estimate the mineral		Geologist
		resources		
4	Infill drilling of 15	Increase confidence	Month 37 to 48 (12	5-year experienced
	boreholes to a depth	of mineral resource	Months/1 year)	Geologist/Resource
	of 500m	estimates		Geologist
5	Pre-feasibility	Economic	Month 49 to 60 (12	5-year experienced
	study/Feasibility	evaluation of the	Months/1 year)	Geologist/Mineral
	Studies	mineral resources		Economist/Mining
				Engineer

Table 5.1: Activities, skills and schedule required – The Prospecting Right is requested for a period of 5 years.

6. REGULATION 7(1) (g): A description of the prospecting method or methods to be implemented.

Non-Invasive

Phase 1 – Desktop Study

The geological desktop study will be conducted within the applicable area and entails requesting data from relevant stakeholders (Council for Geoscience, Universities, etc.). The aim is to establish if there has been historic mapping, surveys, drilling and/or mining activities within the farm. If data is found an initial database creation will commence to comply with mineral resources reporting codes (SAMREC/JORC/NI 43-101). The desktop study will also be used to generate additional ideas on how to generate target in the area based on potential mineralisation (U, REE, Sn, etc.) reported.

Phase 2 – Reconnaissance visit, field mapping and geophysical survey

The initial site visit is aimed at establishing relationships with the locals and evaluating the terrain in detail to locate areas of priority in relation to mapping and geophysical targeting.

Field mapping is aimed at identifying surface outcrops and compiling regional surface geological map of the area.

Geophysical survey is aimed at studying the potential natural radioactive decay variabilities and generate radioactive anomalies either by ground or airborne gamma-ray radiometric surveys.

Invasive

Phase 3 – RC and/or Diamond Drilling

The initial drilling will be targeting areas identified as having potential mineralisation, based on historic data, mapping data and radioactive data. Reverse Circulation (RC) and Diamond (Core) drilling program will be implemented to visualise the mineral resource in 3D and have a grade and tonnage estimates.

Drilling of 20 boreholes entails, geological logging, sampling, database and QAQC protocols implementation, 3D geological modelling, resource block modelling/estimation and resource evaluation. All geological samples will be analysed locally in South Africa as required by the Mining Charter.

Invasive...

Phase 4 – RC and/or Diamond Drilling

Drilling of 15 boreholes entails targeting areas of high grades and yielding mining potential. The aim is to update the geological models with details and increase the confidence of resource estimates from inferred to indicated and measured. This will allow for potential economic evaluation of the mineral resource as defined by most mineral reporting codes.

Feasibility Studies

Phase 5 – Pre-feasibility Study

The pre-feasibility study will entail development studies, which are not limited to environmental, social and governance studies, determining mining methods, infrastructure design, metallurgical test work and costs versus throughput studies. Feasibility Studies will entail detailed economic evaluation, revenue and profits projections – completion of all studies required for developments, and may include bulk sampling (application will be made in terms of Section 20 of the MPRDA)

Commitment to provide addendums in respect of additional prospecting activities

I herewith commit to provide the Department of Mineral Resources with an addendum in respect of both the EM Plan and Prospecting Work Programme regarding any future in-fill prospecting required but not described above, <u>prior to undertaking such activities</u>. The addendum will cover all the Regulations as per the Prospecting Work Programme.

I agree that the addendums will provide for similar activities only and if the scope changes. I would be required to apply in terms of Section 102 of the MPRDA for an amendment of the Prospecting Work Programme.

Accepted (X)

7. REGULATION 7(1) (k): A cost estimate of the expenditure to be incurred for each phase of the proposed prospecting operation.

	Year 1	Year 2	Year 3	Year 4	Year 5
Activities	Cost	Cost	Cost	Cost	Cost
	(R)	(R)	(R)	(R)	(R)
Phase 1:	200.000				
Desktop Study	200 000				
Phase 2:					
Reconnaissance		1 000 000			
, mapping and		1000000			
survey					
Phase 3:					
Target drilling of			15 000 000		
20 boreholes to			15 000 000		
a depth of 500m					
Phase 4:					
Infill drilling of				12 000 000	
15 boreholes to				13 000 000	
a depth of 500m					
Phase 5:					
Pre-feasibility					10.000.000
study/Feasibility					
Studies					
Annual Total	200 000	1 000 000	15 000 000	13 000 000	10 000 000
Total Budget (R) 39 200 00				39 200 000	

Table 9.1: Yearly cost estimates for a period of 5 years.

8. REGULATION 7(1) (j) (i): Details with documentary proof of the applicant's technical ability or access thereto to conduct the proposed prospecting operation.

The parent company ROPA Investments Limited to Solium Energy (Pty) Ltd employs several technically competent persons. Attached is a resolution undertaken by management and a CV of one the Competent Persons (>5-year experience) appointed for the project.

9. REGULATION 7(1) (j) (ii): Details and documentary proof of a budget and documentary proof of the applicant's financial ability or access thereto.

The parent company ROPA Investments Limited to Solium Energy (Pty) Ltd is a Group company based in London, it is essentially a diversified holding company with a focus on strategic mineral exploration, development, and processing. Along with major interests in several ASX/TSX companies, we privately operate over 20 projects across Scandinavia, Africa, and LATAM, including globally significant lithium, titanium, uranium, and iron ore projects. We are one of the largest shareholders of rare earth developer, Lindian Resources (ASX: LIN), among other various lithium/copper/zinc developers listed in Australia. Attached is a resolution undertaken by management/board of directors and an audited financial statement indicating enough assets/funds to finance all requirements of prospecting activities as stipulated in the Prospecting Work Programme.

Budget of R 39 200 000.00

10. REGULATION 7(1) (m): An undertaking, signed by the applicant to adhere to the proposals as set out in the prospecting work programme.

Herewith I, the person whose name and identity number are stated below, confirm that I am the Applicant, or the person authorised to act as representative of the Applicant in terms of the resolution submitted with the application, and undertake to implement this prospecting work programme and adhere to the proposals set out herein.

Full Names and Surnames	: Lesetja Charles Pheeha
Identity Number	: 9201305540085