

	RM-SPECIFICATION Material : Lithium sulfide (Li₂S) Item Code: Purpose : Cathode		DOCUMENT STATUS	
			REV	00
MATERIAL CODE:	C29	DOCUMENT NO.	6	

Sno	Description	UOM	Specification
1.	Physical State / Color	-	Solid/ Yellow white
2.	Assay Content	%	98±1
3.	Grade	-	Metals Basis
4.	Mol. Wt.	g/mol	45.5
5.	Element	%	Percentages
a.	Lithium (Li ⁺)	%	30.6
b.	Sulfide (S ²⁻)	%	69.4
6.	Melting point	°C	938
7.	Particle size distribution	µm	200-350
8.	Bulk density	kg/m ³	1820
9.	Supplier	-	Jainson Lab India
10.	MSDS no.	-	XXXX
11.	CAS no.	-	12136-58-2
12.	Acceptance Criteria		
a.	Visual Acceptance	-	Yellow white powder
b.	Assay Content	%	98 ± 1
c.	Melting point	°C	938 ± 2
13.	Properties	Test Method	Test Agency
a.	Quantitative & qualitative analysis	ICPMS/XRD/ED-XRF	NABL, IIT-HYD, CMET
b.	Particle size distribution	Sewing & others	RES, NABL, SRR labs
c.	Specific heat & Thermal Conductivity	DSC/TGA	NABL, IIT-HYD/CMET

PREPARED BY:		REVIEWED & APPROVED BY:
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RENEWABLE ENERGY SYSTEMS LIMITED
