	RM-SPECIFICATION **Material : Li-Si Alloy** **Item Code:** **Purpose : Anode**	DOCUMENT STATUS **REV** **00**
MATERIAL CODE:	C27 **DOCUMENT NO.**	4

Sno	Description	UOM	Specification
1.	Physical State / Color	-	Solid Powder / Grey
2.	Assay Content	%	98
3.	Grade	-	Industrial Grade
4.	Mol. Wt.	g/mol	51
5.	**Element**	**%**	**Percentage**
a)	Lithium (Li)	%	44 ± 2
b)	Silicon (Si)	%	56 ± 2
c)	Sodium (Na)	%	≤0.18
d)	Aluminum (Al)	%	≤0.04
e)	Calcium (Ca)	%	≤0.06
f)	Nickel (Ni)	%	≤0.20
6.	Melting point	°C	700
7.	Particle size distribution	µm	100
8.	Bulk density	g/cm^3	XXX
9.	Specific heat	J/ (kg K)	0.92885
10.	Supplier	-	MBC Solar
11.	MSDS no.	-	XXX
12.	CAS no.	-	NA
13.	**Acceptance Criteria**		
a)	Visual Acceptance	-	Grey Powder
b)	Assay Content	%	98 ± 1
c)	Melting Point	°C	700 ± 2
14.	**Properties**	**Test Method**	**Test Agency**
a)	Quantitative & qualitative analysis	ICPMS/ED-XRF	NABL, IIT-HYD, CMET
b)	Particle size distribution	Sieving & Others	RES, NABL
c)	Specific heat & Thermal Conductivity	DSC/TGA	NABL, IIT-HYD, CMET

PREPARED BY:		REVIEWED & APPROVED BY:

RENEWABLE ENERGY SYSTEMS LIMITED