



PURCHASE SPECIFICATION
GROUP : Li-Ion cell manufacturing facility

PS-263-013

REV. 01

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ITEM: **Graphite (GRADE SFG 44)**

Application: As the electro-active material in the Negative electrode of Lithium ion cell

PRE-QUALIFICATION CRITERIA

SL NO	DESCRIPTION	VENDOR TO COMPLY
1	The vendor shall be an original manufacturer or a representative or a dealer of OEM for manufacturing of Graphite SFG 44.	
2	If the offer is from an authorized dealer / representative, he should furnish the authorization letter from the OEM, along with the offer.	
3	The vendor should have supplied the same grade material to ISRO-VSSC. PO Copies/acceptance letter from the same shall be submitted along with the offer.	PO copies/ Acceptance Letters shall be enclosed.
4	Vendor shall provide conformance certificate/ materials certificates along with the material.	
5	In case the above conditions are not met, offer is liable for rejection	

REVISION :

APPROVED BY :
(SM, LMF)

PREPARED
Sr. Engg (LMF)

ISSUED

DATE
08-02-2021



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Technical Specification

- Grade :SFG 44
- Powder form

Characteristics	Specifications	Achieved value	Certificate no.
Specific Surface Area (m ² /g)	3.0 ± 1.5		
True Density (g/cc)	2.25 ± 0.15		
Ash (%)	< 0.2		
Elemental Analysis (%):			
Iron	< 0.1		
Material conformation by XRD			

ACCEPTANCE CRITERIA:

- Certificate of analysis as per above table with Batch No/Lot No.
- MSDS to be provided along with material.
- Manufacturing date of the material/Chemicals have to be furnished in case of chemicals along with Expiry date/duration (wherever applicable)
- Lots with latest manufacturing date should be supplied wherever Expiry of the material/chemical is a concern.

PACKING:

- Air/Ship worthy packing has to be done for the material for protection from environmental conditions and contamination. The vendor has to provide the details.
- The packing shall meet all applicable safety/statutory requirements for storage/transportation of the material.
- Material has to be supplied to BHEL- ESD at Electronic City, Phase 1, Bangalore 560100.

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