



सत्यमेव जयते

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Government of India  
Bhabha Atomic Research Centre  
Trombay,  
Mumbai – 400 085, INDIA.

NABTD/18/OPA/ 187474

01.09  
Date: 14<sup>th</sup> September 2017

Sub: ASTM D6751 testing and characterization of Fatty acid methyl esters (partial).

Due Date: 29<sup>th</sup> October 2018

Dear Sir,

You are requested to provide a quotation for required tests under ASTM D6751 testing and characterization of Fatty acid methyl esters (partial, tests requested are listed in appendix 1, 5 samples).

**Notes:**

1. The quotation are to be strictly on your **Printed Letter Head**, should be sent in a sealed envelope by **Registered Speed Post** only, to the following address:

S. Bhanu Prakash,  
Scientific Officer E,  
Nuclear Agriculture and Biotechnology Division,  
Bhabha Atomic Research Centre,  
Trombay, Mumbai 400 085, India.

**Quotations sent by any other mode (hand delivery, courier, ordinary post, email etc.) will not be accepted.**

2. "The reference no, due date and Quotation, not to be opened before due date" should be clearly superscribed on top of this sealed envelope.
3. Quotation should reach the undersigned within the due date given above (October 29<sup>th</sup>, 2018). The quotations received after the due date will not be considered.
4. **Duration of FAME analysis period:** analysis will be carried out during 4 months period after the release of work order.
5. Our officer shall visit for analysis of FAME samples.
6. The test results may be supplied independently.
7. Taxes shall be quoted separately. Form AF shall be provided wherever necessary.
8. Payment terms: Payment will be made after the work is completed and on the submission of advance stamped receipt, invoice bill and satisfactory work completion certificate from the user.

9. Associate Director (A), Bio-Science Group, BARC reserves the right to accept/reject any or all quotations without any reason.
10. The bidder shall deliver the analysis reports within 4 months from the date of firm purchase order issued to the bidder.



S. Bhanu Prakash,  
SO/E, EMT, NABTD

Forwarded through



Dr. V. P. Venugopalan  
AD (A) & Head, NABTD

डॉ. वि.पि. वेणुगोपालन/Dr. V. P. VENUGOPALAN  
सह-निदेशक (अ), जैव-विज्ञान वर्ग एवं  
ASSOCIATE DIRECTOR (A), BIO-SCIENCE GROUP &  
अध्यक्ष, नाभिकीय कृषि एवं जैव-पौद्योगिकी प्रभाग  
HEAD, NUCLEAR AGRICULTURE & BIOTECHNOLOGY DIVISION  
भाभा परमाणु अनुसंधान केंद्र / BHABHA ATOMIC RESEARCH CENTRE  
भारत सरकार / GOVERNMENT OF INDIA  
मुंबई, मुंबई-400 085./TROMBAY, MUMBAI-400 085.

To,  
Web display and notice board.

**Tests requested:**

Sl. no.	Name of the test	ASTM / EN /ISO test name
1	Total acid number	D 664
2	Cetane number	D 6890
3	Ester content/ FAME content	EN 14103
4	Flash point	ISO 2719
5	Cloud point	D 2500
6	Cold filter plug point	D 7501 / D 6371
7	Kinematic viscosity	D 445 / ENISO 3104
8	Copper strip corrosion	D 130 / ENISO 2160
9	Sulphated ash	D 874 / ISO 3987
10	Sulphur content	D 5453 / ENISO 20846
11	Phosphorus content	ICP / EN 14107
12	Methanol content	EN 14110
13	Mono-, di-, triglycerides, free glycerine, total glycerides	D 6581 / EN 14105