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पेट्रोलियम
कंजर्वेशन
रिसर्च
एसोसिएशन



**PETROLEUM
CONSERVATION
RESEARCH
ASSOCIATION**

Telegram : P.E.T.

Telephone : 331000

(पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय, भारत सरकार के अर्न्तगत एक पंजीकृत सोसायटी)
प्रोजेक्ट सेक्रेटरियेट : 1008, न्यू दिल्ली हाउस, 27, बाराखम्भा रोड, नई दिल्ली-110001
(A REGISTERED SOCIETY UNDER THE MINISTRY OF PETROLEUM & NATURAL GAS, GOVT. OF INDIA)
PROJECT SECRETARIAT-1008, NEW DELHI HOUSE, 27, BARAKHAMBA ROAD, NEW DELHI - 110 001.

Ref: PCRA/CD/55(FPC 1)

Date: 26/06/93

Shri Arun Bhargava,
Consultant,
UHI Corporation (USA),
Akanksha,
3A/234-A, Azad Nagar,
Kanpur- 208 002.

SUB: EVALUATION OF FPC 1 - DIESEL FUEL ADDITIVE.

Dear Sir,

The FPC 1, Diesel Fuel Additive was evaluated in a Screening Test carried out by the PCRA as per the agreed test procedure. The additive gave a fuel efficiency improvement of 1.25% with a dosage of 1:5000(v/v) in diesel fuel. Based on the additive cost of Rs.280/- per litre advised by you, the use of this additive was found to be cost effective.

The PCRA recommends the FPC 1, diesel fuel additive for field trials. This recommendation is valid upto 30th June, 1994.

Further extension of this recommendation will depend on field experience of this additive. You may apply for further extension latest by the end of March, 1994 alongwith information on results of field tests and data on actual sales of the additive.

A copy of the test report is enclosed herewith. Please acknowledge its receipt.

Thanking you,

Yours faithfully,
for F.C.R.A

*S.K. GHOSH)
MANAGER (COORD.)

Encl. a/a.

OIL ISN'T GOING TO LAST MUCH LONGER USE IT WITH WISDOM

फोन :
तार : PETCAG
ईक्स : ६७११२४४

Telephone :
Telegram : PETCAG
Fax : 8715244

पेट्रोलियम कंजर्वेशन
रिसर्च एसोसिएशन
— रजिस्टर्ड सोसायटी
(पेट्रोलियम एवं प्राकृतिक गैस विभाग, भारत सरकार)



**PETROLEUM CONSERVATION
RESEARCH ASSOCIATION**

A REGISTERED SOCIETY
UNDER THE MINISTRY OF PETROLEUM & NATURAL GAS, GOVT. OF INDIA

PCRA/CD/55(FPC 1)

27.5.94

Shri Raj Natarajan
Director,
UHI Corporation
48, Alagiri Singa Street
ERODE 638001
TAMILNADU.

Sub: FPC 1- Diesel Additive.

Dear Sir,

The test report on the subject additive had been forwarded to you vide our letter No.PCRA/CD/55(FPC 1) dated 26th June, 1993. This product was approved and recommended for field trials upto 30.06.94. The recommendation period for field trials has now been extended upto 30.06.95.

Please note that all terms and conditions will remain same as mentioned in the test report as well as the letter in reference above.

Kindly acknowledge its receipt.

Thanking you,

Yours faithfully,


(B.K. GHOSH)
MANAGER(R&D)



**PETROLEUM CONSERVATION RESEARCH ASSOCIATION
NEW DELHI**

FUEL ECONOMY REPORT

PRODUCT : FPC 1, DIESEL FUEL ADDITIVE

DATE : JUNE, 1993

**NOTE : THIS REPORT OR THE CONCLUSION
SHOULD BE QUOTED ONLY IN FULL.**



**PETROLEUM CONSERVATION RESEARCH ASSOCIATION
NEW DELHI**

EVALUATION REPORT - FPC 1

1. NAME OF THE ADDITIVE : FPC 1, Diesel Fuel Additive.
2. OBJECTIVE : Evaluation of fuel economy benefit in diesel engine.
3. DOSAGE : The additive dosage was kept at 1:5000(v/v) in diesel fuel.
4. COST OF THE ADDITIVE : Rs. 280/- per litre (approx.).
5. TEST ENGINE : Tata 692 DI engine.
6. ENGINE OIL : MIL-C 30 Mono grade oil.
7. SYSTEM REPEATABILITY : Better than 1%
8. TEST PROCEDURE : The following test procedure was adopted:
 - (a) initial repeatability test
 - (b) induction run of 60 hrs. with neat diesel
 - (c) performance evaluation with neat diesel
 - (d) performance evaluations with FPC 1 after induction runs of 60, 90 and 120 hours respectively

The test cycle for induction run is given in Annexure. The performance data was taken at speeds of 1200, 1600, 2000, 2400 and 2800 rpm with loads of 100%, 75% and 50% on each speed.
9. RESULTS : The average specific fuel consumptions were found to be as follows :

	(in gm/bhp/hr)
With neat diesel	: 192.4
With FPC 1 treated diesel, after an induction run of	
i) 60hrs.	: 191.9
ii) 90hrs.	: 191.7
iii) 120hrs.	: 190.0

Improvement in fuel economy: 1.25%
(with an induction run of 120 hours)

Contd...2/-



**PETROLEUM CONSERVATION RESEARCH ASSOCIATION
NEW DELHI**

ANNEXURE

TEST CYCLE FOR INDUCTION RUN

SR. NO.	DURATION (MIN)	SPEED (RPM)	LOAD (%)
1.	10	Idle	--
2.	20	2000	75
3.	30	2400	100 (WOT)
4.	40	2800	50
