



TOTAL ENERGY SECURITY MISSION

Notification No TESM/ 207-02-2008

Invitation for Expression of Interest

Total Energy Security Mission (TESM) is a recent initiative of the Govt of Kerala launched as a flagship project in the energy sector for the 11th Five Year plan. As part of this programme, the District Panchayats of Kerala (14 numbers) and around three hundred odd local governments through the implementing agency - ANERT (Agency for Non-conventional Energy and Rural Technology) is taking up a project for popularisation of Improved Portable Domestic Biomass Stoves for cooking energy conservation, with incentives.

The project target for the current year is distribution of 200 Improved Portable Domestic Biomass Stoves per district on an average and around 25 stoves per local government in each of the three hundred odd pilot local governments

Expression of Interest is invited from manufacturers / traders / dealers of various commercial models of **Improved Portable Domestic Biomass Stoves**, for under taking the installation/ supply of these devices in Kerala.

The vendors would be short listed based on their past experience, credit worthiness, technical capability and local support mechanism. The Eol shall therefore contain their company profile and testimonials of similar projects previously undertaken by them. The criteria for evaluation of Stove models would be based on emissions, efficiency, multi-fuel flexibility, ergonomics, convenience of operation, reliability, durability, etc. Vendors shall demonstrate the operation before a technical committee on a date, specified later.

Expression of Interests prepared in prescribed format shall reach the State Technical Director, Total Energy Security Mission ANERT, Kesavadasapuram, Pattom PO, Thiruvananthapuram Pin 695004 [phone 0471-2440124, 2441803, 2449854, Fax 0471-2449853], on or before **15th July 2008**.

Format for preparing Eol can be had from ANERT Office on all working days or could be downloaded from the websites www.lsg.kerala.gov.in, www.keralaenergy.gov.in and www.kilaonline.org. The Vendors would be short-listed based on the Eol and limited tender will be issued subsequently among them for the implementation of these projects.

[see page 2 to 5 for Eol format]

Format for submitting
Expression of Interest
for undertaking supply of Improved Portable Domestic Biomass Stoves in Kerala

1	Name of Organisation:		
	1.1 Type of organisation		
	(a) Ownership		
	(b) Legal form		
2	Regn.No.of organisation		
	2.1 Authority issuing registration		
3	Name of Chief Executive		
	3.1 Organisation Chart		
4	Complete Postal Address <i>4.1. Registered Office</i>		
	<i>4.2. Manufacturing facility</i>		
5	Telephone particulars of registered office	Tel No	
		Fax No	
		Email id	
		Website	
6	Details of joint venture/partnership with any other agency (if any)		
7	Details of dealers or associates or subsidiary units in Kerala (if any)		
	7.1 List of dealers		

8	Major Projects in Renewable Energy Sector under taken in the past	
	A. Installations undertaken: B. Type / Make: C. Number of units: D. Location: E. Present Status: F. Contact Person:	(Add additional sheets if reqd)
9	Details of the Stove Model for which EoI is being provided	(provide photos and sketches)
a	Name of the Stove Model	
b	Material of construction	
c	Product finish	
	A. Details of finish	
	B. Finishing Technology	
	C. Standards of finish	
d	Durability	
e	Combustion Type (direct/ gasification)	
f	Fuel Type(s)	
g.	Temperature profile of the stove.	
	A. Immediately after lighting	
	B. Stages before stable burning	
	C. After stable burning	
	D. After extinguishing	
h	A. Emission profile of the stove immediately after lighting	
	B. Stages before stable burning	
	C. After stable burning	
	D. After extinguishing	
i	Cross sectional temperature profile along the heat transfer region during stable burning	
j	Temperature profile of the flame during stable burning	
k	Standards if any applicable	

l	Details of ergonomics	
	A. Does normal operation of stove requires squatting of operator	Yes / No
	B. Does normal operation requiring operation in standing position	Yes / No
	C. Normal height of stove top from floor level	
m	Details of Special Mechanisms	
	A. Mechanism for additional aeration if any	
	B. Mechanism for control of flame if any	
	C. Mechanism for extinguishing fire	
	D. Mechanism for removal of ash	
n	Thermal efficiency (based on certification from a reputed test centre)	
o	Emission level (based on certification from a reputed test centre)	
p	Type of Operation (continuous feed/ batch feed)	
q	If batch feed, duration of operation with one batch of fuel and time required for refilling	
r	Average power per unit area available for heat transfer	
s	Quantity of materials and type of materials used	
t	Safety measures provided for burns	
u	Safety measures for emissions	
v	After sale services provided	
	A. Routine	
	B. Speciality on request	
w	Dimension Particulars of stove	
	A. Overall size	
	B. Weight	
	C. Height	
x	Budgetary cost	
	A. Product	
	B. Post Warranty service	
	C. Likely volume concessions	

y	Warranty period	
z	Warranty obligations	
aa	Patent (if any)	
ab	Proprietary materials or processes used	
	A. Materials	
	B. Processes	
	C. Improvements being planned	
	D. Schedule of improvements	
ac	Possibility of manufacture by local entrepreneur	
ad	Possibility of tie up with local entrepreneur	
ae	Readiness for technology transfer	
af	Requirements of manufacturing facility	
	A. Machines	
	B. Other processes	
	C. Finishing	
	D. Quality control	
	E. Capital	
	F. Investment	
ag	Any other special features	
10	Referees	
Additional information (if any) may be provided separately as enclosures; Documentary proofs may be given for relevant items.		
Total number of pages attached to this format as enclosures		