

F.No. 103/251/2015-NT
Government of India
Ministry of New & Renewable Energy
(Hydrogen Energy & Fuel Cell Division)


Block 14, CGO Complex
Lodi Road, New Delhi-110003
Date: 13/06/2016

OFFICE MEMORANDUM

Subject: Extension of the duration for receipt of proposals for undertaking a study on "Hydrogen Production Capacity and its Utilisation in India"- reg.

This Ministry issued a call for submission of proposal for undertaking a study on "Hydrogen Production Capacity and its Utilisation in India" on Ministry's website on 22.04.2016 as per the recommendation of the Steering Committee on Hydrogen Energy & Fuel Cells and five Sub-Committees on different aspects of hydrogen and fuel cells. It has been decided to extend the duration for receipt of proposals by 1 month i.e. up to 06.07.2016. The main advertisement is available through the following link (use ctrl+click to follow link):
<http://mnre.gov.in/file-manager/UserFiles/proposal-nt-220416.pdf>

2. This issues with the approval of competent authority.


(S.K. Khurana)

Under Secretary to the Government of India
Tele: 011-24362011

Copy to:

1. NIC Cell, MNRE- for necessary action.

Ministry of New & Renewable Energy
Hydrogen Energy & Fuel Cell Division

....

**CALL FOR SUBMISSION OF PROPOSAL FOR UNDERTAKING A STUDY ON
“HYDROGEN PRODUCTION CAPACITY AND ITS UTILISATION IN INDIA”**

A Steering Committee on Hydrogen Energy & Fuel Cells was constituted on 31.5.2012 by the Ministry to advise and steer the overall activities of hydrogen energy and fuel cells in the country. On the recommendation of the Steering Committee on Hydrogen Energy & Fuel Cells, five Sub-Committees on different aspects of hydrogen and fuel cells were constituted on 1.10.2012. The Chairpersons of these Sub-Committees recognised the need for getting a study conducted for estimating hydrogen production capacity by different industries such as refineries, petro-chemicals, chlor-alkali, fertilizers, etc. and also, its utilisation in the country. Accordingly, the Ministry of New & Renewable Energy is interested in getting a study conducted through a suitable agency. The deliverables of the proposed study should aim to achieve the following :

- a) State of art of different technologies used in the country for production of hydrogen and various raw materials used for this purpose;
- b) Estimation of total installed capacity for hydrogen production based on various technologies by different industries such as refineries, petro-chemicals, chlor-alkali, fertilizers and others along with actual production during the last three financial years i.e. 2013-14, 2014-15 and 2015-16;
- c) Plans for augmentation of hydrogen production capacity by the different industries up to 2022;
- d) Details of actual consumption of hydrogen for captive use by the different hydrogen producing industries and by other user industries such as vegetable oil, metallurgical, glass, semiconductor, etc. during the last three financial years;
- e) Estimation of actual consumption of hydrogen by different industries up to 2022;
- f) Estimation of hydrogen flared/wasted, if any, by different hydrogen producing industries during the last three years;
- g) Estimation of surplus quantities of hydrogen available from different hydrogen producing industries with focus on (i) quantities of hydrogen sold during the last three years along with projections up to 2022; (ii) details of hydrogen delivery system; and (iii) the net quantity of hydrogen that may be available for use by transport sector or for stationary power generation presently, along with projections up to 2022;
- h) To obtain typical specification regarding quality of hydrogen available from different hydrogen producing industries and its comparison with specifications of hydrogen required for PEM fuel cell application;
- i) Factors impacting cost of production of hydrogen by different hydrogen producing industries based on the technologies used by them and the current cost of hydrogen on ex-works basis;

j) Assessment of new technologies likely to be deployed in the country for hydrogen production in the coming decade.

2. Institutes/organisations interested in carrying out the above mentioned study are requested to submit a proposal to the Ministry, as per format given in Annexure. Two printed copies along with a soft copy in CD (in MS-Word format) of the proposal be submitted to the Under Secretary (New Technologies), Ministry of New & Renewable Energy, Block No.14, CGO Complex, Lodi Road, New Delhi-110003 within 45 days from date of publication of this advertisement.

ANNEXURE**PROFORMA FOR SUBMISSION OF PROPOSAL FOR A STUDY ON
“HYDROGEN PRODUCTION CAPACITY AND ITS UTILISATION IN INDIA”**

S. No.	Item	Details																		
1.	Project Title																			
2.	Objectives																			
3.	Implementing Institution/ Organisation																			
4.	Category of the Implementing Institution	a) Autonomous Body b) Non-Governmental Organisation c) Cooperative Society / Cooperative Institution d) Others (Please specify)																		
5.	Principal Investigator (Name and contact details including telephone, fax and email) (CV to be enclosed)																			
6.	Co-Principal Investigator (Name and contact details including telephone, fax and email) (CV to be enclosed)																			
7.	Methodology to be used for conducting the study																			
8.	Proposed budget	<table border="1"><thead><tr><th>S. No.</th><th>Item</th><th>Amount (Rs.)</th></tr></thead><tbody><tr><td>1.</td><td>Manpower</td><td></td></tr><tr><td>2.</td><td>Travel</td><td></td></tr><tr><td>3.</td><td>Miscellaneous expenses</td><td></td></tr><tr><td>4.</td><td>Contingencies</td><td></td></tr><tr><td>5.</td><td>Overhead charges</td><td></td></tr></tbody></table>	S. No.	Item	Amount (Rs.)	1.	Manpower		2.	Travel		3.	Miscellaneous expenses		4.	Contingencies		5.	Overhead charges	
S. No.	Item	Amount (Rs.)																		
1.	Manpower																			
2.	Travel																			
3.	Miscellaneous expenses																			
4.	Contingencies																			
5.	Overhead charges																			
9.	Duration																			
10.	Project deliverables																			
11.	Timelines (in terms of work plan)																			
12.	Other relevant information about similar studies undertaken by the Implementing Institution / Organisation																			