



Government of India
Department of Atomic Energy
BRNS Secretariat

Central Complex, 1st floor
BARC, Mumbai 400 085

No. 2013/36/21-BRNS/

1739-ज

Date: 28 OCT 2014

Office Memorandum

Sub: R/P entitled "Development of PEM, AEM and alkaline water electrolyzers for hydrogen production" under Dr. V. Himabindu, Centre for Alternative Energy Options, Institute of Science and Technology, Jawaharlal Nehru Technological University, Kukatpally, Hyderabad 500 085

On the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am directed to convey the administrative approval and sanction of the President of India for the captioned project for three years beginning from financial year 2014-15 with a total grant of Rs.33,95,300/- (Rupees thirty three lakh ninety five thousand three hundred only) as detailed below:

Item of expenditure	I year (2014-15)	II year (2015-16)	III year (2016-17)
* Equipment	Rs. 6,00,000	Rs. --	Rs. --
# Staff : JRF(1)	Rs. 1,92,000	Rs. 1,92,000	Rs. 2,16,000
SRF(1)	Rs. 2,16,000	Rs. 2,16,000	Rs. 2,40,000
Consumable	Rs. 4,00,000	Rs. 2,00,000	Rs. 2,00,000
Travel : PI	Rs. 50,000	Rs. 50,000	Rs. 50,000
Contingency	Rs. 50,000	Rs. 50,000	Rs. 50,000
& Overhead	Rs. 1,09,350	Rs. 49,350	Rs. 52,950
Total	Rs. 16,17,350	Rs. 7,57,350	Rs. 8,08,950

* (1) Upgradation of PEM electrolyser Frame and Piping, (2) PEM cell stack with Titanium with Ti current collectors (250 cm²), (3) Alkaline water electrolyser

JRF fellowship calculated @ Rs.16,000/- per month for first two years and @ Rs.18,000/- per month from third year onward.

SRF fellowship calculated @ Rs.18,000/- per month for first two years and @ Rs.20,000/- per month from third year onward.

& Overhead calculated @ 7.5% of the other heads **except** contingency. The remaining 7.5% towards overhead (Rs.2,11,650) shall be released only on meeting the requirements specified (see Annex-B).

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2. I am also directed to convey the sanction of the President of India to incur an expenditure of Rs.16,17,350/- (Rupees sixteen lakh seventeen thousand three hundred fifty only) towards grant for the financial year 2014-15.

3. The expenditure involved is debitable to :

Grant No.	:	04	- Atomic Energy
Major Head	:	3401	- Atomic Energy Research
Minor Head	:	00 004	- Research & Development
Sub head	:	08 02	- BRNS
Detailed Head	:	08 02 31	- Grant-in-Aid

4. This issues with the concurrence of Scientific Secretary, BRNS and IFA.

Sd
(Dr. Debanik Roy)
Programme Officer, BRNS

Pay and Accounts Officer
Department of Atomic Energy
CSM Marg
Mumbai 400 001

No.2013/36/21-BRNS/

Date :

Copy forwarded to:

1. Director of Audit, Scientific Department, AEAP, OYC, CSM Marg, Mumbai - 400 001.
2. Joint Secretary (R&D), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001.
3. Director, Jawaharlal Nehru Technological University, Kukatpally, Hyderabad 500 085
4. ** Principal Investigator : Dr. V. Himabindu, Centre for Alternative Energy Options, Institute of Science and Technology, Jawaharlal Nehru Technological University, Kukatpally, Hyderabad 500 085

A. First year grant is being released vide ECS in full through Pay & Accounts Officer, Department of Atomic Energy, Anushakti Bhavan, CSM Marg, Mumbai-400 001 directly.

i) Receipt of this sanction letter and grant for the amount sanctioned for the first financial year may please be acknowledged (Form-I).

ii) THIS SANCTION IS FURTHER SUBJECT TO THE CONDITIONS STIPULATED IN ANNEX-A, ANNEX-B AND ANNEX-C (ENCLOSED), WHICH MAY BE GONE THROUGH CAREFULLY.

B. Second year grant will be released after the PI submits the following documents to the Programme Officer (NRFCC):

- a) Claim in Form-II (**enclosed**) quoting the reference of the sanction issued for the first year.
- b) Utilisation Certificate (UC) as on **31st March** of the preceding financial year in Form-III (**enclosed**) showing bank interest accrued and duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.
- c) Statement of Accounts (SA) as on **31st March** of the preceding financial year in Form-IV (**enclosed**) showing bank interest accrued and duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.
- d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee.
- e) An inventory of equipment in Form-V (**enclosed**).
- f) A One Page report on the progress of work during first year.

C. Grant for the third year and subsequent years (if any), will be released only after the Principal Investigator (PI) fulfills the following requirement:

- i) The Department will issue a fresh sanction for the third and subsequent years after receiving the recommendations of the BRNS after scrutiny of the Renewal Application in Form 4R.

Hence, **2 copies** of renewal request in the **Form 4R (enclosed)** and **2 copies** of detailed Progress Report must reach to **Dr. Vivekanand Kain, (MS, NRFCC), Materials Science Division, BARC, Trombay, Mumbai-400 085** and one copy of **Form 4R** to **Dr. Debanik Roy, Programme Officer (NRFCC), BRNS Secretariat, First Floor, Central Complex, BARC, Trombay, Mumbai-400 085** on or before **30th November** of the second or subsequent year of the project as the case may be.

: 2 :

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