

Review of the Project Sap

The Department of Physics has received assistance at the level of DRS (Departmental Research Support) phase I under SAP (Special Assistance Program) scheme from the University Grants Commission. The UGC has sanctioned a total amount of Rs.79.50 lacs for duration of five years. The grant is intended to encourage excellence and teamwork in advanced teaching and research to accelerate the realization of international standards in specific fields. On receiving the grant a meeting was conveyed by then coordinator Prof. Javid Ahmad Sheikh and following decisions were taken:

- **Purchase of Installation HPC:** An amount of Rs. 30 lacs were allocated as per the proposal submitted to UGC.
- **Atmospheric Science:** Rs. 06 lacs were allocated for the purchase of equipments for Atmospheric Sciences.
- **Material Science:** Rs. 03 lacs were allocated for the purchase of equipment for Material Science Lab.
- **Hiring of service of Project Assistant:** It was unanimously decided that services of a qualified person shall be hired on temporary basis.
- **Purchase of Books:** Rs.01 lac has been allocated in the grant for purchase of books. It was unanimously decided that Rs.0.25 lacs would be spent for the purchase of Advanced Research Books for each thrust area projected under Special Assistance Program.

Out of the sanctioned Rs 79.50 lacs the department has received a total amount of Rs.57,10,000 out of which Rs 50,00,000 is non recurring grant and Rs.7,10,000 is Recurring Grant. The detailed breakup of the grant as per the order (**F (utilization grants Res/KU/17/4754)**) issued by dean research is given below:

Non-Recurring

1. Equipment HPC/New experience at M.SC level/ Equipment for Experimental Physics =Rs 50, 00,000

Recurring

1. Contingency/Working expenses @Rs1.00 Lakhs p.a = Rs 1,00,000
2. Chemical/ Consumables / glass wires@Rs 1.00 Lakh p.a = Rs 1, 00,000
3. Travel/field facilities / field trips for faculty members only (all within India) @0.50 lakhs p.a = Rs 50,000
4. Visiting faculty @0.50 Lakhs p.a = Rs 50,000
5. Seminars for organizations on thrust areas @Rs 2 Lakh p.a = Rs 4,00,000
6. Hiring the services of technical/industrial/secretarial assistance as relevant to the program Rs.0.60 lakh p.a = Rs 60,000
7. Advisory committee meetings T.A/D.A for UGC nominee's @Rs0.50 Lakh p.a = Rs 50,000
8. Books and journals @ Rs 1 Lakh p.a = Rs 100,000

Total = Rs 57,10,000

Departmental Up gradation achieved under this project

Item no.2

Purchase and installation of HPC

The Department floated the tender for HPC and got no positive response for it. Again on re-tendering, the response was same from the national and local dealers. As the equipment is of complicated nature, the department sought the help of IUAC New Delhi, where such type of facility exists. Dr Sumit Mokherjee who is the head of computer division also incorporated certain suggestions. The HPC was re-tendered again and 04 tenders from different companies were received. A technical committee meeting was held and the company quoting lowest rate as per our listed requirements was selected. The indent form and all other related documents were forwarded to competent authorities for order placement to the firm.

Item no.3

Purchasing of Equipment for Atmospheric Physics

- 1) Six lac rupees were allocated for purchase of equipment's under this head. In this head an Electric Field Mill (EFM-100) was purchased from a USA based company- Boltek Instruments. It was installed after a hectic effort, as the company had monopoly in the said item and moreover they required money in advance. Research scholar has already started working on it and is in the process of taking data since 28th February 2018. The initial results are encouraging as two conference papers have been already published in international journals.

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Item no.4

Purchase of equipments for Material Science

- 1) Under this head Chemicals worth Rs 44,469 were purchased by Dr. Basharat Want for the material science lab.

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Item no. 5

Purchase of equipment for Astrophysics

Under this head purchase of optical tube for 14 inch Celestron telescope is in the pipeline and will be purchased subject to the availability of funds in the non-recurring grant head.

Item no. 6

Recurring grant:

- 1) **Contingency:** In this A/c stationery bills, bills for ads, lab fitting, equipment charges were met.
- 2) **Chemical/consumables:-**In this A/c various consumables were purchased especially for material science.
- 3) **Travel/ field facilities/ field trips for faculty members only:-** Prof. Javid Sheikh went to Delhi for some official work. Dr. Gowher Bashir travelled to Delhi in connection with purchase of HPC.
- 4) **Visiting Faculty:** Dr. Sumit Mokherjee and Prof. Neelima Gupta visited the Department on 21/03/2018. A one day workshop on HPC was held in the Department of Physics on 21/03/2018. Dr. Sumit Mokherjee and Prof. Neelima Gupta delivered lectures on the said topic.
- 5) **Seminar:-**A national Seminar **GPP-I (2017)** was conducted from October 21st to 23rd. About fifty participants from different colleges of the valley as well as Research Scholar from different universities participated in the Seminar. Resource Persons from IIT Roorkee and Delhi University gave expert talks on various thrust areas.
The list of the experts which gave lectures in the Seminar was:-

- a) Prof A.K Jain (IIT Roorkee)
- b) Prof Dharmendar Singh (IIT Roorkee)
- c) Prof R.P Tandon (Delhi University)
- d) Dr .S.Murlithar (IUAC New Delhi)

- 6) **Advisory Committee meetings TA/DA for UGC nominees**
The meeting is scheduled to be held on 11/August/ 2018 in the university of Kashmir. The Hon'ble Vice Chancellor, UGC nominees and all members are expected to attend the meeting.
- 7) **Purchase of Books and Journals**
The full amount was utilized for the purchase of books on various topics of Physics especially for students and scholars.
- 8) **Hiring the services of Technical/ Industrial/ Secretarial Assistant :-**
In this budget head a Secretarial Assistant was appointed through a proper selection committee framed by the university authorities.

Item no. 7:

a) Future Program

The future Program of the Department includes up gradation of HPC facility and purchase of various equipments. For this purpose handsome money is needed, so that the Department becomes a hub of activity especially in the field of Computational Physics, Atmospheric physics and other related fields.

b) Recommendation

- 1) The committee may make recommendation to enhance the amount of Travel Allowances and Seminar budget, as the price of every commodity has increased, which includes all ticketing and other items too.

2) It is worth to mention here that keeping in view of the work load which the present Secretarial Assistant is doing, the salary component in the new installment may be increased from the current Rs 5,000 to Rs 15,000.

Note:

Most of the equipments where the purchasing has been delayed were due to **GST** and demand of **Advance payment** from the Dealers.

Dr. Gowher Bashir
Coordinator (SAP)