

7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual

Title: Sustained Development of Infrastructure (PIFC) for Research Promotion

1. Objectives:

- To develop the physical infrastructure for research promotion in the academic and industrial community.
- To develop research attitude among PG students and motivate them to undertake prototype of research work/project during academic years.
- To cater to the needs of research students for analytical investigation.
- To offer remunerative services through physical infrastructure to other academic institutes and industries.
- To acquaint infrastructure to UG and school students for creating scientific awareness among them.

2.The Context

The Department of Physics is well known across the country for the research in materials science. But the legacy of quality research with good number of publications needs to be further lifted to device fabrication level. Keeping in view the cutting-edge technology, department has continued to develop PIFC which was initiated on 21stDec.2012so as to strengthen the dream of technology transfer in future.

The current status of PIFC is under sustained progress and enrichment of PIFC through submission of proposals to various funding agencies like UGC, DST, BRNS, etc. is in active state.

3.The Practice:

The practice of sustained research promotion for research students as well as for outsiders has been initiated since 21stDec. 2012 through the submission of combined efforts of various research proposals by the faculty members in the Department of Physics

Present status:

- No of equipment : 20
- Total Investment in Rs. :6,80,49,068/-
- Total Resource generated in Rs.:43,54,513/-
- Total number of Research papers published:2034
- Total number of institutes benefited:2375

4. Future Plans:

- To develop towards more sophistication in device fabrication.
- To initiate short-term certificate course for student in charge.
- To add academic consultancy for college students, researchers, industries.

5. Evidence of Success:

- Number of beneficiaries during (01 April 2015- 17 February 2021)
- Remuneration generation during (01 April 2015- 17 February 2021)

6. Problems Encountered and Resources Required

- Permanent operators for the PIFC
- Budgetary Provision of AMC
- Delayed availability of funds in successive phases of development

7. Notes (Optional)

- **The instrumentation facilities in PIFC are continuously updated to match with the international standards.**
- **Well-established sophisticated instruments are operated by Ph.D. scholars, which develops handling skills in them.**
- **Consultancy is provided for enthusiastic researchers and industrialist.**