

Resource Planning & Budget

Dr. Geethika Yapa
Head - Research Division
NSF

Application form – Some important aspects

Significance of the research outputs of the project

For example:

- High-tech industry
- Manufacturing industry
- Agro industry
- Human resource development in R & D
- Formulation of evidence based policies/guidelines

Application form – Some important aspects contd...

- **Relevance and impact of research outcomes to national / socio-economic development**
 - Will the results have any effect on poverty alleviation ?
 - Will the results contribute to improving the well-being of the people?
 - Environmental sustenance

- **Analysis of the problem & rationale of the research question**
- **General and specific objectives of the proposed work**
- **The activities in experimental design**
- **Work Plan (Gantt Chart)**
- **Indicators and Milestones of progress**

Research Proposals

Competitive Research Grants

- largely based on individual concepts and expertise
- Issues are aligned to researcher specialty

Application Form

- Do you think while filling the form or before?
- Do you plan while filling the form or before?
- If you 'fail to plan'
- then you are 'planning to fail'

Topics covered

- Linking project to outcomes
- Breakdown into activities
- Gantt Charts
- Budget

At the proposal planning stage itself:

- Link the research to the national / societal needs as far as possible
- Breakdown the project into manageable activities on a rational basis
- Time the activities for effective implementation
- Develop the budget based on the activities

A Project is a set of activities which ends with specific accomplishments and which has:

- Non-routine tasks
- Distinct start/finish dates and
- Resource constraints
(time/money/people/equipment)

Activities / Tasks

- Tasks are activities that must be completed to achieve the project goal
- Break the project into small tasks and subtasks
- Tasks have start and end points, are short relative to the project and are significant
- Shorter tasks are easier to manage than long tasks
- Must not have too many tasks in the Chart. Easier to monitor
- Some tasks can be done concurrently, while others have to wait for the previous task to be completed

Work Plan - Gantt Charts

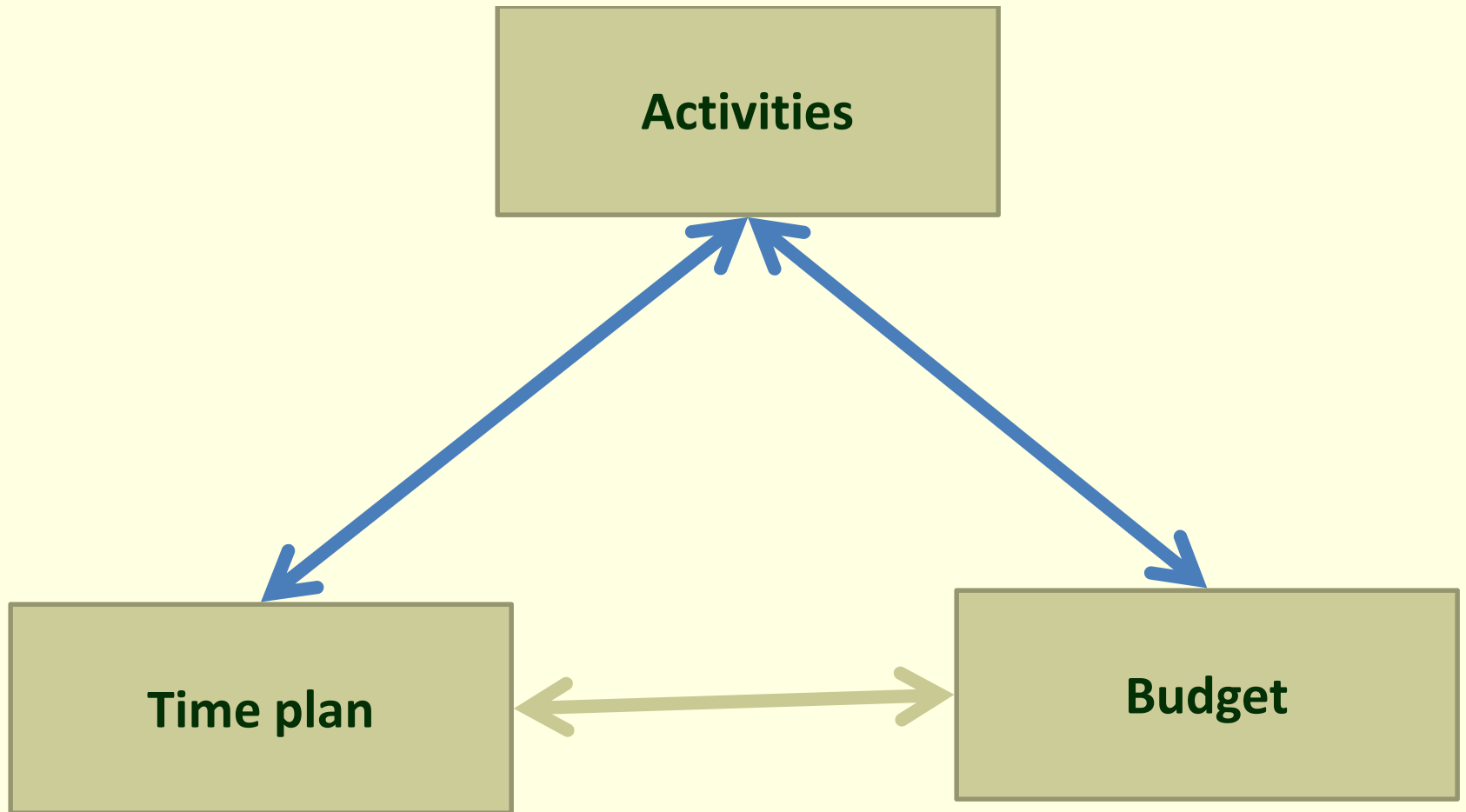
- A Gantt Chart is a visual project planning tool that gives us an overview of the project.
- Gantt Charts are simple to understand and easy to construct.
- They are used to represent the timing of tasks required to complete a project.
- Each task takes up one row. Dates / Time period run along the top.
- Tasks may run sequentially, in parallel or may be overlapping.

A Simple Gantt Chart

Duration Activity	FIRST YEAR												SECOND YEAR															
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D				
Literature survey	█																		█									
Specimen collection			█																									
Laboratory experiments						█																						
Data analysis																		█										
Manuscripts for local and international journals																									█			
Final report preparation																											█	

Milestones

- A set of activities will end up with a Milestone
- Milestones are important checkpoints or interim goals for a project. They can be used to catch scheduling problems early.
- The plans will evolve as the project progresses so need to be flexible and need to update on a regular basis.
- It also helps to identify risk areas for project.



Summary Budget – NSF Research Grants

(1) Personnel	1 st Year	2 nd Year	3 rd Year	Total
(i) NSF Research Scientist*				
(ii) Research Student**				
(iii) Technical Assistant				
(iv) Labour/Other				
Sub Total (Personnel)				
(2) Equipment***				
Sub Total (Equipment)				
(3) Consumables				
(4) Laboratory services and sample analysis				
(5) Statistical analysis				
(6) Calibration of instruments				
(7) Postgraduate registration fees				
(8) Travel & Subsistence				
(9) Miscellaneous				
GRAND TOTAL ****				

Budget

Research Personnel

- **NSF Research Scientists** should have a postgraduate degree (MPhil / PhD) and work full time with the Principal Investigator. NSF Research Scientists can be allocated only for Principal Investigators with adequate research experience.
- Full-time **Research Students** can be allocated only for Principal Investigators with two or more years of postdoctoral research experience.
- **Technical Assistants** can be with O/L or A/L qualifications

For Principal Investigators who have not received any Research Grants before (NSF or other funding sources), total budget should not exceed Rs One Million, excluding allocations for Research Personnel.

Budget contd...Allowances of Research Personnel

- Monthly allowance of **NSF Research Scientists**
 - ❑ Full time - 40,000/= p.m.

- Monthly allowance of **Research Students**
 - ❑ Sp. Degree/ General Degree/ Equivalent Degree and Registered for a postgraduate degree - Rs. 35,000/= p.m.
 - ❑ Not registered for a postgraduate degree - Rs. 25,000/= p.m.

- Monthly allowance of **Technical Assistants**
 - ❑ With G.C.E. (A/L) in 03 subjects - Rs. 13,500/= p.m
 - ❑ Without the above qualification - Rs. 12,000/= p.m.

- **Labourers** - Rs. 397.66 + C.O.L Rs. 70.83 per day - according to government approved rates

Budget contd...Subsistence

Subsistence rates – paid according to Government Circulars

- Investigators - Rs. 500/=
- Research Scientist - Rs. 500/=
- Research Student - Rs. 500/=
- Technical Assistant - Rs. 400/=

- Overnight stays – additional 25%

Budget Contd...

Equipment

- List all the items of equipment.
- Budget for equipment should be less than 50% of the total budget
- If an equipment costs more than Rs. 500,000/=, should apply through the Equipment Grant Scheme
- Computers: strong justification necessary (laptops should be returned to the NSF)

Budget continued...

- Consumables
- Laboratory services and sample analysis
- Statistical Analysis
- Calibration of instruments
- Postgraduate registration fees of Research Student
- Travel (vehicles of the Investigator's Institutions)

Budget Contd....

Miscellaneous

Should not exceed 10% of the total budget

- Stationery
- Data storage devices
- Photocopying etc.

Common mistakes observed

- Figures given in the budget inaccurate
- Requesting driver's O/T, subsistence from NSF
- Budgeting for attending overseas workshops and seminars.
- Miscellaneous budget over 10% of the total budget
- Requesting funds for communication charges, contingencies, unforeseen expenditure
- Supporting documents not attached (bio data, ethical clearance etc.)



Thank you