Usage Policy for Param Sanganak

- The computational resource of Param Sanganak will be shared on a fair use basis with non-IIT Kanpur users (maximum of 40% of computing resources) and the rest by IIT Kanpur users.
- The resource allocations are based on fair share policy for all the users. The heavier the usage by an individual user, the lower would be the priority of their jobs.
- Each user can use a maximum of 1536 node-hours in 24 hours. Should this limit be reached, no jobs of that user will run until the next 24-hour cycle begins.
- At any given time, maximum of 10 (running + queued) jobs per user are allowed. The system will reject more than 10 concurrent (R+Q) jobs.
- The default wall-time is 2 hours. The maximum wall-time for any job is 4 days. This is subject to the maximum of 768 node-hours limit of all jobs of the respective user in running mode. User can define the wall-time up to 4 days if he/she does not define the wall-time while submitting the job, then default wall-time of 2 hours will be applicable. For bigger jobs, the maximum wall time can be lesser than 4 days, as mentioned in the below example.
- The maximum limit of 768 node-hours per day implies the following: For example, this implies that at any time a user can run

  128 node job for 12 hours, or 
  64 nodes job for 24 hours, or 
  32 nodes node job for 2 days, or 
  16 node job for 4 days, or

In general, if C represents the number of nodes required for your jobs, and if T represents time (in hours), then a maximum of 10 jobs can be run in 24 hours time span that respects the overall limit of C x T = 1536 node-hours.

- This policy shall be reviewed periodically reviewed based on usage pattern.

Note: Email <sanganaksupport@iitk.ac.in> will be used by our Resident HPC Engineers to inform Param Sanganak users.