PARAM SANGANAK Usage Policy

PARAM Sanganak HPC facility usage policies:

1. 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.

2. 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.

3. 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.

4. 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.

5. The **default wall-time is 2 hours. The maximum wall-time for any job is 4 days**. This is subject to the maximum of 1536 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.

6. The maximum limit of 1536 node-hours per day implies the following: For example, this implies that at any time a user can run
   - 128 node job for 12hours, 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

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