Specifications for Tumour Cancer panel Sequencing:

Perform DNA extractions from the paired Tumour/Normal tissue (96 pairs) that will be given by the PI.

All logistics of the project to be taken care by the service provider.

Perform library preparations & comprehensive NGS based exonic sequencing of 340 Cancer genes listed by the PI (Attached)

All the QC reports to be submitted to the PI.

Return back the left over DNA to the PI safely after Sequencing.

Perform comprehensive data analysis of the sequence data and identify all the variants. Do Somatic mutation analysis using Tumour/Normal pair data.

Submit all the raw sequencing data and analyzed data with detailed reports to the PI.

NGS based sequencing to be done using Illumina SBS chemsitry as 1X50bp or 2X100bp or 2X150bp or 2X250bp read length runs.

The quality of the sequencing data should be 80% data greater than or equal to Q30.

The somatic mutation data should be annotated and analyzed using Somatic mutation data base tools to give appropriate clinical interpretations.