## Plasma Facing Components Technologies in SST-1 EX/P5, P5

- SST-1 PFC installation completed in in Mid 2015
- Vacuum Vessel Surface area 75m² and volume approximately 20m³.
- Equipped with Graphite tiles, Cu-Cr-Zr back plates and graphoil Assembled PFC components can take heat load of 1 MW/m<sup>2</sup>
- The total surface area of the installed PFCs exposed to plasma is about 40 m<sup>2</sup> which is nearly 50% of the total surface area of stainless steel vacuum chamber (~75 m<sup>2</sup>).
- PFC tiles can be baked up to 250°C for more than 250 hours with Vessel temperature 150°C
- Hot Nitrogen gas is passed through brazed tubes as a working gas to bake PFC components
- Ultimate vacuum achieved with PFC components after baking cycle  $4.5 \times 10^{-8}$  mbar.