

## Group Achievement Award 2017



**Shri K.V. Tale**, is conferred the Group Achievement Award for the year 2017 for his contributions in the field of **Erection and Commissioning of 3 MW Steam Turbine Generator with necessary piping, electrical & instrumentation controls and other accessories at Heavy Water Plant , Kota.**

HWPk envisaged an innovative energy saving scheme by installation of Steam Turbo Generator for extraction of lost work. For scheme realization, a purchase order was finalized for “Design, Preparation of fabrication drawing, and it’s approval, Procurement of materials, Fabrication, Inspection, Testing, Packing, Safe delivery to HWP-Kota and foundation, Clearing the site, Commissioning and Performance Guarantee Test Run with necessary piping, electrical and instrumentation control and Guarantee of steam Turbo generator set including moisture separating vessels.” This job was awarded on turn-key basis. Contractor supplied the steam turbine generator set and started fieldwork. However, he abandoned the work during site execution phase after completing about 50 percent of the total field work. STG is tailor made equipment. Contractor did not provide complete design inputs, detailed drawings of system which led to difficulties and challenges in completion of job.

Residual engineering with respect to STG system was carried out by Heavy Water Board and tender drawing, different procedures for installations, pre-commissioning, commissioning etc. were developed. This feat was achieved by overcoming several technical challenges like finalization of reputed contractor having adequate past experience in design and supply of STG units, erection of the STG unit at site, its hook-up with existing steam piping system and successful commissioning. Procurement and erection of IBR approved piping material, electrical and instrumentation relay testing, integration vis-à-vis governor characteristic and system commissioning were crucial milestones which were achieved successfully by the group. Turbo Generator has been successfully commissioned and rolled to rated speed, which is unprecedented and noteworthy achievement.

The group worked as a cohesive team and overcame the engineering challenges during the commissioning of Steam Turbo Generator. A significant power saving of about 2.65 MW is estimated through continuous operation of this STG Unit. Well-coordinated efforts from each member of the group become instrumental in accomplishing this challenging task successfully.

The Chairman, Atomic Energy Commission has great pleasure in presenting the “GROUP ACHIEVEMENT AWARD 2017” to Shri K.V. Tale in recognition of his outstanding contribution to the Department.



Dr. Anil Kakodkar, former chairman, Atomic Energy Commission and President, National Academy of Science, India is presenting award to Shri K.V. Tale in presence of Shri K. N. Vyas, Secretary, Department of Atomic Energy and Chairman, Atomic Energy Commission.