



Flexpert Simulator Training

660 MW Simulator Training on Flexible Operation

to upskill Operation engineers as “Flexperts” for smooth operation of coal based generating units under flexible regime.

Activities	Experts / Trainers
Day 1 – Fore noon (10 – 13 Hrs)	
✓ Welcome and Introduction	Mr KK Mundhada (Ex GM NTPC), Mr PS Kumar (CEO STEAG O&M Company Pvt. Ltd.) and Mr SK Mehta (STEAG) Dr. Vikram Singh (Director, EEC)
✓ Expectations Mapping	
✓ Session on Need for Flexibilization in India, CEA notifications	Mr KK Mundhada, Mr PS Kumar
✓ Session on Achieving Flexible Operation in Indian coal based plants: Key learning from case studies and solutions implemented in flexible simulator	Mr KK Mundhada, Mr PS Kumar
✓ Session on Experiences from Germany (online mode)	Dr Claudia Weise (Project Director of International Affairs, vgbe)
Day 1 – After noon (14 – 17:00 Hrs)	
✓ Achieving Flexible Operation in Indian coal-based plants: Financial implications of Flexibilization, expected regulatory intervention with Flexibilization regime and Road map & way forward to achieve flexible operation	Mr KK Mundhada, Mr PS Kumar
Day 2 – Fore noon (10 – 13 Hrs) – Instructor led Interactive Simulator training	
✓ Unit ramp down from 100% to 70%, 55% and 40% load @ 3%, 2% and 1% ramp rates respectively in manual mode and Unit Stabilization at 40% load without oil support	Mr Mukesh Gupta (Trainer)
✓ Noting down parameters in the Template and analysis	
✓ Unit ramp up from 40% to 55%, 70% and 100% load @ 1%, 2% and 3% ramp rates respectively in manual mode	Mr Mukesh Gupta
✓ Noting down parameters in the Template and analysis	
Day 2 – After noon (14 – 17 Hrs) – Practice session	
✓ Unit ramp down from 100% to 70%, 55% and 40% load @ 3%, 2% and 1% ramp rates respectively in manual mode and Unit Stabilization at 40% load without oil support (existing system)	Mr Mukesh Gupta
✓ Noting down parameters in the Template and analysis	
✓ Unit ramp up from 40% to 55%, 70% and 100% load @ 1%, 2% and 3% ramp rates respectively in manual mode (existing system)	Mr Mukesh Gupta
✓ Noting down parameters in the Template and analysis	
✓ Recap, discussions and doubt clearing	Mr KK Mundhada, Mr SK Mehta & Mr Mukesh Gupta

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Activities	Experts / Trainers
Day 3 – Fore noon (10 – 13 Hrs) - Instructor led Interactive training	
✓ Unit ramp down from 100% to 70%, 55% and 40% load @ 3%, 2% and 1% ramp rates respectively in Auto mode and Unit Stabilization at 40% load without oil support in Flexible simulator	Mr Mukesh Gupta
✓ Noting down parameters in the Template and analysis	
✓ Unit ramp up from 40% to 55%, 70% and 100% load @ 1%, 2% and 3% ramp rates respectively in Auto mode in Flexible simulator	Mr Mukesh Gupta
✓ Noting down parameters in the Template and analysis	
✓ Demonstration of Flexible scenarios like Condensate Throttling technique	Mr Mukesh Gupta
Day 3 – After noon (14 – 17 Hrs) – Practice session	
✓ Auto mode Ramp down from 100% to 70%, 55% and 40% Unit load @ 3%, 2% and 1% ramp rates respectively in Flexible simulator	Mr Mukesh Gupta
✓ Demonstration of Auto Unit ramp up from 40% to 55% , 70% and 100% load @ 1%, 2% and 3% ramp rates respectively in Flexible simulator	
✓ Unit stabilization at 40% and Noting down parameters in the Template and analysis	
✓ Practice on Flexible scenarios	Mr Mukesh Gupta
✓ Online Assessment	Mr SK Mehta, Mr Mukesh Gupta
✓ Wrapping up and Feedback session	
✓ Certificate distribution ceremony	Dr. Vikram Singh (Director, EEC)
Day 4 – Visit to 660 MW THDC Power Plant, Khurja	
Visit to THDC Power Plant (7 am start – return by 7 pm)	

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