

## 1. Training Programme on O&M of Hydro Power Plants

The program covers the basics of Hydro Power Plant operation followed by best practices in the industry to attain high operational efficiency and minimize downtime. Classroom sessions coupled with site visits and first-hand interaction with O&M engineers at 800 MW Koldam Hydro Power Plant shall provide an invaluable experience to the participants.

| Programme Title |                           | Operation & Maintenance of Hydro Power Plant   |
|-----------------|---------------------------|--|
| Duration        |                           | 5 days   |
| Venue           |                           | Employee Development Centre, 800 MW Koldam Hydro Power Plant   |
| Day             | Time                      | Topic  |
| Day 1           | Forenoon (FN)<br>3 hours  | Introduction to large capacity hydro power station, industrial safety  |
|                 | Afternoon (AN)<br>3 hours | <ul style="list-style-type: none"> <li>• Visit to Hydro Power main plant and reservoir area.</li> <li>• The Visit shall be undertaken in Two groups in both the areas</li> </ul>   |
| Day 2           | FN                        | <ul style="list-style-type: none"> <li>• Operation Practices of Main Plant</li> <li>• Operation Practices of Reservoir</li> <li>• Mechanical maintenance</li> </ul>  |
|                 | AN                        | <ul style="list-style-type: none"> <li>• Electrical Systems &amp; Switchyard</li> </ul>  |
| Day 3           | FN                        | <ul style="list-style-type: none"> <li>• Control &amp; Instrumentation Systems Overview and Operation practices</li> <li>• Plant Operation Strategies</li> </ul>   |
|                 | AN                        | <ul style="list-style-type: none"> <li>• Mechanical Maintenance</li> </ul>   |
| Day 4           | FN                        | <ul style="list-style-type: none"> <li>• Electrical Maintenance</li> <li>• Control &amp; Instrumentation Systems Maintenance</li> </ul>  |
|                 | AN                        | <ul style="list-style-type: none"> <li>• Civil Maintenance</li> <li>• Over Hauling of Units</li> </ul>   |
| Day 5           | FN                        | <ul style="list-style-type: none"> <li>• Maintenance Strategies (Preventive, Predictive &amp; Condition based), Cost Benefit</li> <li>• Spare Parts Planning</li> </ul>  |
|                 | AN                        | <ul style="list-style-type: none"> <li>• Services Functions viz. Maintenance Planning, Operation Services, Energy Efficiency &amp; Environment</li> <li>• Presentation by Participants about learning</li> <li>• Feedback, Valedictory &amp; Felicitation Session</li> </ul> |