

**17 Days Module for Induction training program for vidyut sahayak (Junior Engineers) of
GETCO**

| Sr. No | Day on | Session | Topic |
|--------|---------|-----------------|--|
| 1 | Day-I | I & II | Overview of Power Sector. Development and Evolution of Power Sector in the country since independence – Generation, Transmission and Distribution, Role of Central, State and other utilities. |
| 2 | | III | Transmission Planning of GETCO – Exclusive future network |
| 3 | | IV | Power Sector Reform – Its need and noticeable change in generation transmission & distribution |
| 4 | Day-2 | Full Day | Visit, at construction stage of 400 k/v Kosamba s/s under Kim TR Div, • 1500/- Faculty Remuneration for DE/Coordinator |
| 5 | Day-3 | I & II | Project Planning of GETCO, its implementation and monitoring. Integration management, scope management, cost management, time management, contract management and risk management. |
| 6 | | III | Construction and Design – features of transmission line |
| 7 | | IV | Substation Design and EHV - Equipments & S/S Engineering |
| 8 | Day - 4 | I | Condition Monitoring. RLA & Life extension of Sub Station equipment. |
| 9 | | II | Transformer Testing. |
| 10 | | III | Integrated Energy Policy. |
| 11 | | IV | Transmission Line - Activity of Survey and Profiling |
| 12 | Day - 5 | I & II | Defects and failures in Transmission Line and Substation – Root cause analysis and action plan |
| 13 | | III | Interfaces of Civil works with Electrical work on transmission lines & S/S |
| 14 | | IV | Electricity Act 2003 – Statutory governing body , Generation , Transmission, Distribution and Trading, Promoting competition. |
| 15 | Day – 6 | I & II | M.S Project. |
| 16 | | III & IV | MS Project Exercise |
| 17 | Day – 7 | I & II | Daily routine maintenance and schedule maintenance of Substation lines and Diagnostic maintenance technique. |
| 18 | | III | R&M of Transmission Assets, Philosophy, Need and Strategy. |
| 19 | | IV | Quality Plans |
| 20 | Day – 8 | I | Energy Accounting scheme and ABT & Its practical aspects + Grid Management. |
| 21 | | II | Introduction of Grid Code in respect of Capacity Declaration, Scheduling Procedure, Requisitions including Bilateral & Collective Transactions and Application of Interstate as well as Intrastate Transmissions Charges & Losses. Procedure for connectivity ST/LT/ Bilateral. |

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| 22 | | III | Safety at work place in Projects, O&M and R&M works – Case Studies |
| 23 | | IV | Introduction to Indian Grid Code in respect of Grid Operation, Reactive Power Management, Congestion Management And Load Generation Balance. & Fault Analysis and System Emergency and Safety. |
| | Day - 9 | | Sunday. |
| 24 | Day – 10 | I & II | Introduction to ISO 9001-2000-Process approach, Quality objectives, Design development and review, measurement and improvement |
| 25 | | III & IV | Project Accounting and its importance in day to day operation of business + MYT. |
| 26 | Day - 11 | Full Day | Chief Operation Officer, 1147 – 5 MW SUGEN CCPP, Torrent Power Ltd, Surat, mhkshatriya@torrentpower.com Mobile No – 9227410148. • 1500/- Faculty Remuneration for DE/Coordinator |
| 27 | Day-12 | I/II/III | Effective Communication and Communication Barriers. |
| 28 | | IV | Role of different agencies like CTU, STU, CERC, CEA etc. Grid discipline, control and monitoring – Role of RLDC/SLDC, AB T, UI. |
| | | | E-Urja Modules. (In Computer Lab Only). |
| 29 | Day-13 | I & II | Purchase Modules |
| 30 | | III & IV | Inventory Modules |
| 31 | Day – 14 | I | Project Modules |
| 32 | | II | Maintenance Managt. Modules |
| 33 | | III | HR Modules |
| 34 | | IV | DAS. (PLCC). |
| 35 | Day-15 | I | Insulation Coordination, Reactive Power Management including various Voltage Control Devices including facts and methods for reducing fault levels including Transient, Dynamic Stability of the network. |

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| 36 | | II | Control & Protection in Transmission Line & Sub-Station. and SCADA. |
| 37 | | III & IV | <p>Feedback & Valedictory. 60 VSJE shall make 6 groups of 10 persons in each group and the group shall decide their leader on their own for presentation before MD. Presentation by the Group Leader on "What has been learnt and how this learning shall be implemented at Work Place". (15 Min. for each group)</p> |