



Harmonisation
of
Tender Documents
for
R&M Projects



Objectives

Phase-I Activity

Study/Review of existing tendering procedures and documents followed by public utilities in India/World Bank projects.

Phase-II Activity

Development of tendering procedures and model contracts for the R&M of fossil fuel based power plants.



Phase-I Activity

- Phase-I activity was carried out by GTZ through the consultant Evonik Energy Services (India).
- Phase-I Report was submitted by Evonik (India) in Sept, 2009.



Phase-II Activity

- The Task Force was constituted with Members from MoP, CEA, NTPC, WBPDC, APGenco and Mahagenco under the Chairmanship of Member (Thermal), CEA
- KfW is providing the funding for Phase-II Activity.
- Lahmeyer International India was appointed on 16th March, 2012 to carry out the Phase-II Activity.
- Some German organisations such as VGB and VDMA were also associated with the activity through IGEF.
- The activity was also linked with procurement experience in Unit-3 Nasik and Koradi Unit-6 TPSs of Mahagenco.



Approach and Methodology

- Review of the Phase-I Activity Report.
- Review of data and documents for R&M Projects provided by CEA, MAHAGENCO and WBPDC.
- Study of KfW Guidelines for the Assignment of Consultants.
- Study of Standard Bidding Document published by The World Bank.
- Interactions with MAHAGENCO regarding the R&M initiatives for Nasik Unit-3 (210 MW) and Koradi Unit-6 (210 MW).
- Interactions with some R&M Contractors viz. M/s Alstom, M/s Energo and M/s Doosan.
- Regular Consultations with CEA and the Task Force.
- Use of data base for R&M Projects available with Lahmeyer.



Documents Prepared by Lahmeyer

- **Model RLA/CLA Report**
- **Model Energy Audit Report**
- **Model Feasibility Report**
- **Model Detailed Project Report**
- **Model Tendering Procedures**
- **Model RFQs & RFPs for R&M Consultant**
- **Model RFQs & RFPs for ISC for R&M Projects**
- **Model RFQs for R&M Contractors.**
- **Tender Documents for all R&M Contract Packages along with Technical Specifications.**
- **Report on Phase-II Activity.**



Contract Packages

- Boiler & Auxiliaries.
- Turbo-Generator & Auxiliaries.
- Coal Handling Plant.
- Ash Handling Plant.
- Mechanical Balance of Plant.
- Electrical Balance of Plant



Structure of Tender Documents

Volume	Section	Part	Description
Volume – I	----	----	Commercial Volume comprising, Invitation For Bid, Instruction to Bidder, General Project Information, General Condition of Contract, Special Condition of Contract, Forms & Schedules.
Volume – II	Section – I		Project Technical Specification
	Section – II	Part – A	Detailed Technical Specifications – Mechanical
		Part – B	Detailed Technical Specifications – Electrical
		Part – C	Detailed Technical Specifications – C&I
		Part – D	Detailed Technical Specifications – Civil
Volume – III	----	Part – A	Technical Schedules – Mechanical
	----	Part – B	Technical Schedules – Electrical
	----	Part – C	Technical Schedules – I&C



- The Final model tender documents and the Report on Phase-II Activity have been submitted by Lahmeyer in September, 2014.
- The Final documents were further examined in CEA.
- The Final Documents have been accepted by KfW on 9th March 2016.
- The Final Documents have been accepted by CEA on 02nd May 2016 .

Thanks