

## **ANNEXURE - I**

### **BHEL-PEM-CIVIL**

#### **PREQUALIFYING REQUIREMENTS FOR CIVIL ENGG CONSULTANT FOR 200 MW & ABOVE COAL BASED T.P.S.**

The Engineering Consultancy Organisation for Civil, Structural and Architectural works shall be of repute with long standing and past experience of providing the consultancy work and meet the following requirement.

1. Should have carried out design and engineering of The Main Plant(Main Power House Mill Bunker Building, Machine Foundation, Chimney minimum 2 nos. of Plant Unit rating of 120 MWTPS in-house comprising of Civil, Structural and Architectural works during the last 7 years.

Bidder to furnish documentary evidence from client for having successfully completed the project.

Bidder shall also furnish a list of all design and consultancy work currently under progress and those undertaken in last three years.

2. Should have in-house adequate qualified Architects for conceptual design and detailing of Architectural works, for Power Plants.
3. Should have adequate and experienced engineering manpower for performing all design and drawing work in an automated computerized environment. The experience of the engineering manpower shall be such as to demonstrate having undertaken the design work mentioned at serial no. 1 above and also to demonstrate their capability to carry out such design work once order is placed on them. Since BHEL is using STADD and AUTOCAD package for Engineering Analysis and drafting work; the consultant should also use the same packages for compatibility. Details to be furnished in schedule 1 attached herewith.

Bidder shall furnish a detailed list of manpower of all categories along with their experience indicating the projects and areas in which they have carried out engineering design. Bidder shall also furnish a detailed list of infrastructure facilities like office space, hardware, software and network resources with no. of licenses. All softwares shall be original.

Bidder should be able to indicate & commit dedicated manpower during the peak engineering activity of approx. 12 months. During the starting phase of approx. 3 months and tapering phase of approx. 3 months 50% of peak manpower is required.

A minimum of 8 experienced graduate Civil/Structural engineers, 9 Civil/Structural design assistant or draftsmen, 1 experienced Architect and 2 Architect Assistants/draftsmen will be required to be dedicated to each project during peak period.

No. of outsourcing jobs to be awarded to any single bidder will depend on their manpower strength as well as the current work load being handled by the bidder. Therefore the bidder shall furnish a detailed list of all the works being handled by the bidder currently as well as their total man power. Once any job is awarded to the bidder the bidder shall furnish the list

of manpower dedicated for the same and further the bidder shall undertake not to deploy/ divert the same manpower for any other job. Failure to meet this requirement shall be considered as breach of contract and BHEL shall have the right to debar the bidder from quoting for any future job.

4. The consultant should also possess electronic mailing facility for Communication and transmittal of engineering drawings and documents for faster progress of work.
5. The bidder shall furnish the Certificate of Registration with Registrar of Companies or any equivalent document which establishes them as a design / consultancy group engaged in Civil / Structural / Architectural works.
6. Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 2.5 crores. The bidder shall have sound financial health for the last three financial years.

## **ANNEXURE - II**

### **BHEL-PEM-CIVIL**

#### **PREQUALIFYING REQUIREMENTS FOR CIVIL ENGG. CONSULTANT -GAS BASED COMBINED CYCLE PLANT.**

The Engineering Consultancy Organisation for Civil, Structural and Architectural works shall be of repute with long standing and past experience of providing the consultancy work and meet the following requirement.

1. Should have carried out design and engineering of a Plant Unit rating of 300mw combined cycle plant in-house comprising of Civil, Structural and architectural works during the last 7 years

Bidder to furnish documentary evidence from client for having successfully completed the project.

2. Should have in-house adequate qualified Architects for conceptual design and detailing of Architectural works, for Power Plants.
3. Should have adequate and experienced engineering manpower for performing all design and drawing work in an automated computerized environment. Since BHEL is using STADD and AUTOCAD package for Engineering Analysis and drafting work; the consultant should also use the same packages for compatibility. Details to be furnished in schedule 1 attached herewith.

Bidder should be able to indicate & commit dedicated manpower during the peak engineering activity of approx. 6 months. During the starting phase of approx. 3 months and tapering phase of approx. 3 months 50% of peak manpower is required.

A minimum of 8 experienced graduate Civil/Structural engineers, 9 Civil/Structural design assistant or draftsmen, 1 experienced Architect and 2 Architect Assistants/draftsmen will be required to be dedicated to each project during peak period.

4. The consultant should also possess electronic mailing facility for Communication and transmittal of engineering drawings and documents for faster progress of work.
5. The bidder shall furnish the Certificate of Registration with Registrar of Companies or any equivalent document which establishes them as a design / consultancy group engaged in Civil / Structural / Architectural works.
6. Average Annual financial turnover during the last 3 years, ending 31<sup>st</sup> March of the previous financial year, should be at least 2.5 crores. The bidder shall have sound financial health for the last three financial years.

### **ANNEXURE - III**

#### **BHEL-PEM-CIVIL**

#### **PRE-QUALIFYING REQUIREMENTS FOR CIVIL ENGG. CONSULTANTS FOR ENTIRE ARCHITECTURAL AND CIVIL & STRUCTURAL WORKS OF BALANCE OF PLANT & NON PLANT STRUCTURES.**

The Engineering Consultants shall be of repute with long standing and past experience of providing the consultancy work and should meet the following requirement.

1. Should have carried out similar works for large industrial projects such as Power Plants, Refineries and large Petro-chemical plants etc during the last 7 years.

Projects executed by the bidder should be listed and bidder should furnish documentary evidence from client for having successfully completed project.

2. Should have in-house adequate qualified Architects for conceptual design and detailing of Architectural works for large industrial Projects such as Power Plants, Refineries and Petro chemical plants.

Details to be furnished regarding the qualified Architects, their experience along with the drafting Man Power employed.

3. Should have adequate and experienced engineering manpower for performing all design and drawing work in an automated computerized environment. Should use STADD and AUTOCAD package for Engineering Analysis and drafting work. Details to be furnished regarding the qualified Engineers, their experience and drafting manpower employed in schedule I, enclosed herewith.

Bidder should be able to indicate & commit dedicated manpower during the peak engineering activity of approx. 6 months. During the starting phase of approx. 3 months and tapering phase of approx. 3 months 50% of peak manpower is required.

A minimum of 8 experienced graduate Civil/Structural engineers, 9 Civil/Structural design assistant or draftsmen, 1 experienced Architect and 2 Architect Assistants/draftsmen will be required to be dedicated to each project during peak period.

4. Should have the facility for electronic mailing for communication and transmitted for engineering drawings and documents.
5. The bidder shall furnish the Certificate of Registration with Registrar of Companies or any equivalent document which establishes them as a design / consultancy group engaged in Civil / Structural / Architectural works.
6. Average Annual financial turnover during the last 3 years, ending 31<sup>st</sup> March of the previous financial year, should be at least 2.5 crores. The bidder shall have sound financial health for the last three financial years.

**PROJECT ENGINEERING MANAGEMENT  
BHARAT HEAVY ELECTRICALS LIMITED**

**Name of Bidder's Organization**

Employee Details of Organization

Area	Civil		Structural		Architectural		Remarks
Category	Nos in Employment	Nos. Proficient in Computer aided design	Nos in employment	Nos proficient in computer aided design	Nos in employment	Nos. Proficient in Computer aided design	
Engineers Architects							
Draftsman							
Others (Pl Specify)							