



**TITLE: TECHNICAL SPECIFICATION FOR  
ENGINEERING SERVICES FOR CIVIL,  
STRUCTURAL & ARCHITECTURAL WORKS FOR**

760±50MW Gas Based CCGT Power Plant at  
 Pallatana, Tripura

**SPECIFICATION NO.**

**PE-TS-319-600-C002**

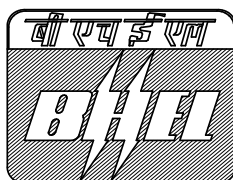
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# **760+-50MW Gas Based CCGT Power Plant at Pallatana, Tripura**

**PE-TS-319-600-C002**  
**REVISION 00**

## **TECHNICAL SPECIFICATION FOR ENGINEERING SERVICES FOR CIVIL, STRUCTURAL & ARCHITECTURAL WORKS**



**Bharat Heavy Electricals Limited**  
**Project Engineering Management**  
**PPEI Building, Power Sector,**  
**Plot No. 25, Sector 16A,**  
**Noida (U.P.)-201301**

**Regd. Office: 'BHEL-House', Siri Fort, New Delhi - 110 049**



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**1.0 DEFINITIONS**

The following terms and expressions used herein shall have the meanings as indicated below:

**1.1 OWNER**

This has a reference to General Condition of Contract Clause 1.2. The Owner for the Project is – ONGC

**1.2 PROJECT ENGINEER**

Shall mean the Engineering Officer appointed by BHEL to act as “Coordinator” from time to time on behalf of BHEL in all matters pertaining to this work. He or his nominee(s) shall further direct, supervise, inspect, check, scrutinize, measure, approve and certify for payments some or all the scope of work and be in charge of work defined here-in-below.

**2.0 CIVIL AND STRUCTURAL WORKS**

**2.1 GENERAL**

The scope of work, for this area covers Design, Engineering, Preparation of Documentation, Obtaining Approval of BHEL / Owner / Customer's Consultant, Procurement Assistance, Site Assistance etc. for the following:

The Scope of Work shall include but shall not be limited to Preparation of Schemes and Conceptual Designs according to the requirements, Detailed Civil, Structural, Architectural Design and Analysis on the basis of loading parameters, preparation of analysis / design document and preparation of Construction Drawings, including various activities at Contract Stage. The activities involved shall include furnishing phase-wise requirements of Structural Steel, Reinforcing Steel and Cement for procurement purposes; detailed Design and Engineering required for the Permanent Works; Preparation of As-Built drawings, Checking of fabrication drawings and connection design, checking of design and drawings of BHEL vendors, providing Design Clarifications during Construction Stage as and when required at Site; and any other activity required for the Contract Stage.

The following services are envisaged in the scope of the Sub-Consultant:

- I. The scope of this work includes complete Architectural, Civil and Structural Design and Drawings Services for Civil Works as per 'CIVIL-TABLE-1' in Clause 5.0. The list is only indicative. It is not intended to limit the Engineering work to these Equipments / Buildings / Facilities.



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Sub-Consultant to carry out Civil Engineering, depending on the BHEL scope.

- II. Preparation of List of Documents, Drawings and Submission Schedule w.r.t. Construction Schedule.
- III. Submission of Progress Report and Input requirements.
- IV. Preparation of 3D Analysis, Design and Drawings for various Buildings, Equipment Foundations, Structures and Services listed in the scope of Civil Works (Enclosure: " CIVIL-TABLE-1 in Clause 5.0).
- V. Preparation of advance Bill of Materials for procurement of Cement, Reinforcement Steel and Structural Steel.
- VI. Preparation of As-Built drawings.
- VII. Checking of structural steel connection designs and fabrication drawings.
- VIII. Preparation of Bill of Quantities (BOQ) containing major cost items like Structural Steel, Reinforcement Steel, Concrete, Shuttering etc. for all structures based on 'Released for Construction', drawings and to be updated based on As Built Drawings. However all relevant construction drawings shall contain a table indicating BOQ's for PCC, RCC (grade wise) and Reinforcing Steel (diameter wise) and Structural Steel (Section wise.)
- IX. Seismic analysis including dynamic analysis shall be as per IS 1893 / site specific seismic data as applicable.
- X. Provide Technical Advice / Recommendations regarding Site related Construction Problems as and when required including Site Visits, participation in meetings with BHEL / Customer / Customer's Consultant.
- XI. Checking of architectural, civil & structural drawings, analysis and design submitted by BHEL vendors. The design shall be checked for all CODAL and statutory requirements in addition to checking of all interfaces with mechanical, electrical etc.
- XII. Incorporation of Civil Interface details in respective civil drawings using Vendor drawings.
- XIII. Sub-Consultant is expected to give a most economical design for the Civil structures, without compromising on Customer Specifications, CODAL and Statutory requirements etc.



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- XIV. Sub-Consultant shall take care that the items, specifications and details shown in the drawings are strictly in accordance with Technical Specifications. If there is any variation the same must be referred to BHEL for opinion.
- XV. Sub-Consultant is expected to bring to the notice of BHEL any aspect of Customer Specification, which is at variance with CODAL provisions and Standard Practice, for BHEL to consider the same and give a decision before Seller / Contractor proceeds with Engineering.
- XVI. Sub-Consultant is expected to carry out the Engineering based on the Customer / BHEL specifications, CODAL and Statutory requirements and BHEL standard practices for the project.
- XVII. The scope of work also includes Sub-Consultant getting the approval of Customer / Customer's consultant / BHEL for the schemes and detailed calculations, design drawings and construction drawings after incorporation of comments of BHEL / Customer.

## 2.2

### **DOCUMENTS TO BE PREPARED/SUBMITTED BY SUB-CONSULTANT**

Following documents shall be submitted for approval of the Owner / BHEL. The list is not exhaustive but indicative only. **However, the Sub-Consultant shall submit the documents related only to the specific Scope of Work (as per Table-1, in Clause 5.0).**

- List of Drawings and Document Submission Schedule.
- Architectural concepts for Buildings.
- Architectural Floor plans, Elevations and Cross Sections of all Buildings.
- Structural analysis, Detailed Design and engineering Drawings of all Buildings & Structures under this Contract. Dynamic analysis including Mathematical Models considered in the Structural Analysis shall be furnished. The analysis document shall consist of analytical model, figures of node and member numbers, analysis philosophy, detailed load calculation, complete analysis results and shall be self explanatory. The design document shall consist of design philosophy, detailed design calculation for critical load case and summary of design calculation for all load combinations. The Sub-consultant shall include all the details / calculations in the analysis/design document and drawings as required by BHEL / Customer / Customers consultant. The Seller / Contractor shall carry out any additional /



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alternative analysis or design (other than those necessarily stipulated in codes / design memorandum) as required by BHEL / Customer / Customer's consultant at no additional cost to BHEL.

- Detailed Dynamic analysis, Design calculations and Drawings for Machine Foundations.
- Design Calculations and Drawings for all Building Foundations, all Sub-Structures and Super Structures; Channels, Trenches, etc.
- Detailed Design and Drawings of all Pipe & Cable Racks including supporting structures and foundations.
- Detailed Finish Schedule of all Buildings in scope.
- Details of Hot and Cold Water Plumbing and Drainage including Architectural Plans for Toilets, Kitchens and Pantries.
- Detailed Design and Drawings of False Flooring and False-Ceilings.
- Details of connection of Sewage Disposal Pipes to the Sewage Treatment system within battery limit
- Civil Engineering Designs along with detailed Hydraulic Calculations and Drawings of complete Plant Storm Water Disposal System.
- Rigid & flexible design for roads & pavements, as required.
- Detailed Design calculations and drawings of Culverts and Railway Track Crossings.
- Color Scheme, Internal & External for all Buildings & Facilities in scope.
- Details of Doors and Windows and Ventilators.
- Detail landscaping of the entire plant area including details and quantum of plantations (grass, trees, shrubs etc.) with their scientific and local names, water bodies, water distribution system (pipes, sprinklers, enhancer, reducer etc.)
- Detail Bill of Quantity of all items required for landscaping of entire plant area (plantations, pipes, sprinklers, water bodies, soil turning, stone pitching etc).
- As Built Drawings.



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## 2.3

### EXCLUSIONS

Following items are not included in the Scope of Works:

- i). Preparation of Schedule of Quantities and Technical specification for Sub Contracting of Civil works.
- ii). Evaluation and Award of Contract for Civil Works
- iii). Site Management and Field Quality Assurance.
- iv). Preparation of Structural Steel Shop Drawings.
- v). Temporary Works For Construction.

## 2.4

### INPUT DATA BY BHEL

This shall include but not be limited to the following information:

- i) Owner's / BHEL Technical Specifications and Geo-Technical investigation / Contour Plan and Site survey report. The technical specification shall be binding for all engineering works over and above CODAL and statutory requirements.
- ii) Loading Plan of Equipments along with anchoring arrangements for design.

Above data shall be supplied progressively to serve the mutually agreed work schedule.

## 2.5 GENERAL REQUIREMENTS

- i) On receipt of intimation from BHEL, the Sub-Consultant's representative shall collect the Technical Data from the office of BHEL and start working on the job. In case any clarification is required, the same would have to be discussed by Sub-Consultant with BHEL. Before submitting the designs, drawings and any other document for approval, the Sub-Consultant shall carefully and thoroughly check the same in accordance with Owner's Requirements so as to minimize re-submissions, if any, which shall be at the cost of the Sub-Consultant. Further while getting the same approved from Owner, the sub-consultant's representative shall be present for providing any clarifications if required.



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- ii) All works shall be carried out based on functional requirements and Customer / BHEL's specifications and amendments issued from time to time.
- iii) All designs, structural analysis and preparation of drawings shall be carried out by computer on BHEL title blocks / formats. All drawings shall be prepared using AutoCAD software (latest version). The analysis of structures shall generally be done by computer using software STAAD Pro (latest version) whereas the design shall be carried out by computer using in-house validated software. Soft copies in editable native format of all calculations / drawings shall be submitted along with hard copies. All computer programmes to be used shall be subject to the approval of Customer / Customer's Consultant / BHEL with necessary validation, if required.
- iv) All information, drawings, classified documents provided by BHEL to Sub-Consultant for the purpose of carrying out a project work shall remain the property of BHEL and shall be returned to BHEL on completion of the project. All information generated during the execution of the project, such as details, designs, drawings and documents by Sub-Consultant shall be exclusive property of BHEL and its Intellectual Property rights shall be that of BHEL. BHEL shall have full right to use these in any manner suitable to BHEL Business requirements. Sub-Consultant will execute Non-Disclosure Agreement as required by BHEL in this respect. This section will survive the expiration or termination of contract.
- v) The Sub-Consultant shall use only standard A-0/A-1 size sheets with BHEL standard title block and format for drawings unless noted otherwise. All calculations shall be in A4/A-3 size sheets having BHEL standard format. The drawing and design document shall have BHEL number format only and shall not have any Sub-Consultant number format.
- vi) Details of Loading parameters, Equipment Details etc. required from BHEL / Customer cannot be supplied in one lot and shall be supplied progressively in parts by BHEL / Customer.
- vii) The Sub-Consultant shall be required to Add / Alter / Modify the already Approved Design / Drawings and / or include the substitutions in Steel Sections and Reinforcing Bars depending upon Material Availability and Project Time Schedule requirements. These may have to be resorted to even after





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completion and approval of Construction / Fabrication drawings, without any extra cost to BHEL.

- viii) The Bill of Quantities for Major Civil and Structural items shall be furnished in respective Construction Drawings.
- ix) Sub-Consultant shall be fully responsible for the adequacy of the Design and Detailing. BHEL / Customer's checking and / or approval shall not absolve Sub-Consultant of their responsibility for Design, its Correctness and Commercial Risk attendant to the same.
- x) Sub-Consultant shall also accept the Deletion of any work of the Present Scope subject to maximum of 10% of the Contract Price for Civil Works.
- xi) All requirements given in the owner's specifications are included in the sub-consultant's scope, unless specifically excluded from the sub-Consultant's scope.
- xii) Any comment received even after approval of design and drawing shall be incorporated by the Sub-Consultant and revise the design & drawing, if necessary, at no extra cost.
- xiii) Sub consultant shall use BHEL standard analysis, design and detailing procedures, wherever provided by BHEL.

### **3.0**

#### **TIME SCHEDULE FOR COMPLETION OF ACTIVITIES**

Detailed design and release of construction drawings shall match the construction schedule.

The last Date for Completion of detailed Engineering (DCE) including release of all construction drawings shall be Nine months from Date of Award of Contract. However the Date for Completion of Contract (DCC) shall be 23 March 2012 for submission of As Built Drawings.

The schedule shall be binding on the Sub-Consultant. The Sub-Consultant shall carry out the contract activities in a sequential manner, in line with the Project Schedule and the Project Progress requirements.

It shall be the Sub-Consultant's responsibility to engage requisite manpower, provide requisite interface inputs for design in BHEL unit's



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scope and also to check the interface documents from BHEL – units and vendors to maintain progress as per schedule.

#### **4.0 DRAWING / DOCUMENTS SUBMISSION**

		FOR TAKING CLEARANCE OF BHEL BEFORE SUBMISSION TO CUSTOMER FOR APPROVAL	FOR APPROVAL	FOR CONSTRUCTION [AFTER APPROVAL]
Drawings	Hard copy	--	--	--
	Soft copy (AutoCAD)	01	01*	01*
	Soft copy (PDF)	--	01*	01*
Designs/ Documents	Hard copy	--	--	--
	Soft copy (Excel/Word)	01	--	--
	Soft copy <sup>#</sup> (PDF)	--	01*	01*
Analysis Model	Soft Copy (STAAD/Any analysis software input & output file)	01	--	01

# A complete compiled single PDF file of the design document shall be submitted by the Sub-Consultant such that BHEL can directly print it to obtain the hard copy of the analysis / design document.

The signatures of 'Prepared by', 'Checked by' & 'Approved by' as required in the drawings and the documents shall be scanned and attached to all the soft copies (PDF format) at specified locations. The soft copy (PDF format) shall not be considered submitted without signatures.

As-built Drawings	Hard Copy	--
	Soft Copy (PDF)	01*
	Soft Copy (AutoCAD)	01*



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All soft copies shall be transmitted by Sub-Consultant through E-mail. In addition, the soft copies marked (\*) above shall be submitted in consolidated groups at a suitable interval by sub consultant on CDs during the course of execution of project.

Some of the drawings may undergo many revisions during concurrent engineering, which shall be carried out without any additional cost.

## **5.0 SCOPE & PRICE SCHEDULE**

Providing detailed Civil, Architectural & Structural Analysis, Design and Drawings for the under defined scope, meeting specification requirements including providing all resources, incorporation of comments, revision of drawings and designs, etc., providing design clarifications to site as and when required etc including cost of courier charges for sending CD's but excluding cost of visit which will be paid separately as per schedule under - Clause 6.0

The scope of engineering work for each system / building is sub-divided into Superstructure engineering (structural analysis, design, drawing of the superstructure), Sub structure engineering (structural analysis, design, drawing of the substructure), Architectural Engineering (Conceptual design, detail architectural drawing), Layout engineering (planning, drawing), Checking of Fabrication drawings etc.

The scope of work given in TABLE 1 given below:-



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**CIVIL – TABLE 1 (760±50MW Gas Based CCGT Power Plant  
at Pallatana, Tripura**

<u>(760±50MW Gas Based CCGT Power Plant at Pallatana, Tripura</u>		
	<b>PART</b>	<b>TOATL AMOUNT (in rupees)</b>
<b>Patrol road and watch towers along the boundary wall</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Chain link fence and Gate between plant and Non-plant building</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Fencing around Switchyard and Transformer yards including Gates</b>	SUB-STR. ENGG.	
	SUPER STR. ENGG.	
<b>Site Grading</b>	SUB-STR. ENGG.	
	SUPER STR. ENGG.	
<b>Plant Access Road from the Pallatana-Kakarban road near the entrance of the project</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Plant Internal Roads and paved areas</b>	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Storm Water Drainage System</b>	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Gas Turbine and Generator Buildings</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Gas Turbine Foundations</b>	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Gas Turbine Area Equipment Foundations</b>	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>HRSG Foundations</b>	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Main Stack foundation</b>	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>STG Building</b>	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Steam Turbine Foundations</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	



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<b>Switchgear and Control Buildings</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Transformer Foundations</b>		
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Fuel Gas Conditioning Station</b>	SUB-STR. ENGG.	
	SUPER STR. ENGG.	
<b>Fuel Gas Compressor Station</b>	SUB-STR. ENGG.	
	SUPER STR. ENGG.	
<b>Black Start and Emergency DG Set Buildings</b>	SUB-STR. ENGG.	
	SUPER STR. ENGG.	
<b>CW Pump houses</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>VOID</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>River Water Intake and Pumphouse</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Civil works related to Raw Water Pipeline and Effluent disposal line</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Raw Water and Fire Water Reservoirs</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Raw Water Pump House</b>	SUB-STR. ENGG.	
	SUPER STR. ENGG.	
<b>Clarifiers</b>	SUB-STR. ENGG.	
	SUPER STR. ENGG.	
<b>Clarified Water Storage Tank</b>	SUB-STR. ENGG.	
	SUB-STR. ENGG.	
<b>Clarified Water and Fire Water Pumphouse</b>	SUB-STR. ENGG.	
	SUPER STR. ENGG.	



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<b>Service Water and Potable Water overhead tank</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>DM Plant</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Chemical Laboratory</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Chemical Storage Building</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>HRSG Blowdown sump</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Central Monitoring Basin</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Pipe and Cable Racks</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Pipe and Cable Trenches</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Workshop</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Stores</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Fire Station</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Administrative Building</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
<b>Canteen</b>	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	



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Training Centre	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
Hostel	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
Medical Centre	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
Gate / Security House	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
Site offices for Owner's and Owner's Engineers' use	ARCH. ENGG.	
	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
Two Wheeler Parking Area	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
Car Parking Area	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
Cycle Stand	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
Sewage Disposal System	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
Oily Water System	SUPER STR. ENGG.	
	SUB-STR. ENGG.	
Landscaping including sprinkler type irrigation using treated effluent from sewage disposal system in areas under this specification		
ANY OTHER CIVIL STRUCTURAL AND ARCHITECTURAL WORKS NECESSARY TO RENDER THE PROJECT COMPLETE		

In case the scope for the system and sub-system changes during the detail engineering stage for each project, the deletion of price shall be worked out based upon the revised CIVIL-TABLE 1.

## 6.0 SCHEDULE OF CHARGES FOR SUB-CONSULTANT'S VISIT

<u>Sl. No.</u>	<u>Description</u>	<u>Estimated no. of visits</u>		<u>Maximum Rate per visit per Person in Rs.</u>
6.1	Outstation visit to BHEL	07	Travel Cost	



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	offices in Delhi/Noida		Boarding / Lodging / Local Conveyance (per day)	
6.2	Visit to Site / Customer Office / Customer Consultant's Office.	10	Travel Cost	
			Boarding / Lodging / Local Conveyance (per day)	

Rate to include all expenses of the Sub-Consultant with no other expenses to be borne by BHEL.

## 7.0 TERMS OF PAYMENT

60% of Lumpsum price	On first submission of drawings ( <i>including soft copy of all related analysis and design as mentioned in Cl. 4.0</i> ) for approval to customer in acceptable form to BHEL. [pro-rata basis]
30% of Lumpsum price	After final submission of approved Construction drawing ( <i>including soft copy of all related analysis and design as mentioned in Cl. 4.0</i> ) to site. [pro-rata basis]
10% of Lumpsum price	After submission of As-Built drawings.

The billing schedule submitted by the sub-consultant shall be subject to approval by purchaser for facilitating pro-rata payments.

**For Item 6.1 & 6.2: 100% for the respective visit on certification of design engineer on bimonthly basis.**

## 8.0 VALIDITY OF CONTRACT

The fees and other rates shall remain firm up to (i.e. DCC 23 March 2012 ). If the contract has to be extended beyond the stipulated period due to reasons beyond the control of the Sub-Consultant, then the balance lump sum fees and other rates will be escalated at mutually agreed rates. For delays beyond the contract period, for reasons directly attributable to the Sub-Consultant, Liquidated Damages (LD)





**TITLE: TECHNICAL SPECIFICATION FOR  
ENGINEERING SERVICES FOR CIVIL,  
STRUCTURAL & ARCHITECTURAL WORKS FOR**

760±50MW Gas Based CCGT Power Plant at  
Pallatana, Tripura

**SPECIFICATION NO.**

**PE-TS-319-600-C002**

**REV. 01**

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shall be levied as per the General Commercial Conditions (GCC) of the contract.

**Additional Terms and Conditions (to be considered by the Bidders)—**

The levy of LD shall be as below:

For DCE & DCC refer Clause 3.0.

Detail engineering completion schedule – All construction drawings shall be released by “DCE”:

- LD Clause shall be applied by BHEL in case these drawings are not delivered by DCE (All input data and drawings from BHEL shall be provided by “DCE minus 2 Months”).
- In case of input delay from BHEL beyond “DCE minus 2 Months”, LD clause for delay shall be applied on Bidder only in case where submissions are delayed beyond 4 months of actual input date.

Period of contract for submission of ‘As built’ drawings/docs shall be till “DCC”. However in case of delay in completion of project beyond this period, the LD shall be applied after considering the above delay.