



CENTRAL POWER RESEARCH INSTITUTE

(A Govt. of India Society, Ministry of Power)

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Sadasivanagar (P.O.),
Bangalore, India, Pincode: 560 080

ESTABLISHMENT OF TOTAL TEST FACILITY FOR TRANSFORMERS IN WESTERN ZONE AT RTL, CPRI, NASHIK

PACKAGE 2: On-Line Test Laboratory (OLTL) (Comprising of 1500 MVA Short-Circuit Test Laboratory) (E-Tender)

NIT No.: CPRI BLR21NIT05

Date: 08/07/2021

INFORMATION FOR BIDDER

1.0 FOREWORD

CPRI invites online bids on single stage two bid system basis from eligible bidders for the design, engineering, manufacture, testing, supply including transportation & insurance, storage, storage insurance, erection, testing and commissioning of the equipment/items, Auxiliary and Ancillary system and services including civil works of 220 kV Substation (foundation of equipment & structures and cable trenches) required for all the components complete in all respects as per technical specifications excluding the supply, erection, installation and commissioning of the HV/MV short circuit transformer for establishment of “1500MVA On-Line Test Laboratory (OLTL)” at Regional Testing Laboratory(RTL), Central Power Research Institute(CPRI), Survey No. 220, Shilapur, Nashik, Maharastra, India as per the scope of work mentioned hereinafter.

The proposed On-Line Testing Laboratory (OLTL) contain 1500 MVA Online Short circuit test Laboratory for MV Test facility: Short circuit test facilities for the Distribution & Power Transformers.

2.0 SCOPE OF WORK

2.1 The scope of the proposal shall be on the basis of a single bidder's responsibility, for the works specified under the accompanying specifications and documents.

2.2 This scope covers the design, engineering, manufacture, testing, supply including transportation & insurance, storage, erection, testing and

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commissioning of the equipment/items, Auxiliary and Ancillary system and services including civil works of 220kV substation (Foundation of equipment & structures, cable trenches, wall bushing installations, earthing grid, firefighting system installation) for establishment of **1500MVA On-Line Test Laboratory (OLTL) at CPRI, Nasik**. The scope also covers interfacing of laboratory short circuit transformers and integration of total laboratory.

The commissioning of the laboratory with specified performance guarantee tests.

(The civil design and construction of Laboratory buildings such as control room, test cells and reactor/resistor room are excluded from the scope of the present document. Transformer's (T1) foundation, fire walls, road for transport and placement of these transformers, Oil/water collection sump, leveling of substation area and substation fencing is not in scope of this specification. This has been done by CPRI.)

2.3

The single bidder shall be responsible for the following activities:

- a) Supply Part
 - (i) Detailed design and engineering of all the equipment,
 - (ii) Providing engineering drawings, data, operation manual etc., for the CPRI's approval and use,
 - (iii) Complete manufacture/supply including stage inspection and shop testing,
 - (iv) The type tests reports issued by any accredited laboratories as per IEC/ISO 17025 shall be produced for all equipment as per standards mentioned in the technical specification in Section VI. The date of issue of report shall not be older than ten years from the date of techno-commercial bid opening.
 - (v) Packing for tropical conditions and despatching from the manufacture's works up to CPRI-Nashik premises,
 - (vi) Supply of spares, tools and tackles,
- b) Transport, testing and erection, installation and commissioning Part
 - (i) Transportation up to the test laboratories
 - (ii) Transit insurance, storage cum installation insurance,
 - (iii) Preservation and conservation of all equipment at the site,
 - (iv) Pre-assembly, if any, for erection and testing of all the equipment,
 - (v) Erection, installation and commissioning of all the Equipment
 - (vi) performing testing at CPRI laboratories/Any other accredited laboratories, commissioning and conducting reliability tests and other performance and guarantee tests of all the equipment,
 - (vii) Supervision during erection of the equipment and
 - (viii) Training of CPRI personnel at site.

c) Related Civil works part of the project:

Civil works of substation shall comply with the standard practice in use in Indian HV Substations, CBIP manual, Indian Electricity act & rules, CEA guidelines and other regulatory requirements applicable.

- Construction of foundation and erection of all substation equipment, structures, gantry towers, bus supports supplied against this tender.
- Cable trenches along with covers in the 220kV substation (within switchyard) and connecting to the existing trench, which is terminating at start of the switchyard.
- Stones spreading along with cement concrete layer in the Substation area.
- Foundation for lighting poles, bay marshalling box, panels and control cubicles of equipment.
- Construction of foundation, erection & mounting for the Ancillary services such as Fire fighting system, Compressed air station and earthing grid.

3.0 Single stage, two bid system is followed for this tender. The tender is classified into two parts:

PART 1: Techno-commercial Bid (Sealed Envelope) comprising Bid Security Declaration, requisite data on qualifying requirements, detailed technical aspects of the Plant and Equipment offered, supporting catalogues, documents and descriptive materials, data as required in Technical specifications, deviation list if any from employer's technical specifications and conditions of contract, work completion schedule, master network, integrity pact, quality assurance program, proposal for training program of CPRI personnel etc.

PART 2: Price Bid comprising the financial details of the plant and equipment, recommended spares, spares, taxes and duties, insurance, transport and installation & commissioning etc. shall be submitted online portal given below.

www.tenderwizard.com/CPRI

The techno-commercial bid in sealed envelope form duly marked as techno-commercial bid shall be submitted.

The techno-commercial bid submitted by the Bidder shall comprise the following documents:

Bid Form (Techno-Commercial Bid) Section-VII, Part 1 of 2 duly completed and signed by the Bidder, together with all Attachments identified in ITB Sub-Clause 9.2 below.

Price Bid - Section VII Part 2 of 2 shall be uploaded online portal www.tenderwizard.com/CPRI

4.0. The bidder documents for the procurement of the said package consisting of two volumes: Volumes-I and Volume-II, each containing two parts.

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Volume-I: Part 1:

Section I: Notice Inviting Tender (NIT) giving a brief description of the package and the requirements.

Section II: Details the Instruction to Bidders (ITB) – describes overall instruction to the bidders.

Section III: Bid Data Sheet (BDS): This includes the amendments to the GCC.

Section IV: General Conditions of Contract (GCC).

Section V: Special Conditions of Contract (SCC)

Volume –I: Part 2:

Section VI: Technical Specifications and Drawings (TS).

Volume II: Section VII-Part 1: Forms and Procedures

Volumes II: Section VII-Part 2: Price Bid

5.0

The bid document consisting of the scope of work, technical specifications, quantities and the terms and conditions to be complied with and other necessary documents can be purchased from Purchase Authority, Central Power Research Institute, P. B. No. 8066, Sadashivanagar P.O., Prof. Sir. C. V. Raman Road, Bengaluru-560080, Telephone No. +91-(0)80-22072271 / email id: purchase@cpri.in or at Purchase Division, CPRI, Bengaluru, as per the given schedule.

NIT No.	: CPRIBLR21NIT05
Bid documents on sale	: From 08/07/2021 : From 09.30 hrs to 16.30 hrs (IST), on working days
Last date of receipt of queries prior to pre-bid conference	:23/07/2021
Pre bid conference	:27/07/2021
Last date for receipt of Techno-commercial and price bid	:23/08/2021
Techno commercial Bid Opening	:24/08/2021, (11.00 hrs onwards)
Cost of Bidding Document	:Rs. 1000 (Rupees One Thousand Only) per set for Indian Bidders.

6.0 Address for Communication

Purchase Authority

CENTRAL POWER RESEARCH INSTITUTE,

P.B. NO. 8066, SADASHIVANAGAR P.O

PROF. SIR. C.V. RAMAN ROAD, BENGALURU – 560 080, INDIA

PHONE: +91-(0) 80-2207 2271

Email: purchase@cpri.in

7.0 Employer's Account Details

Details of RTGS/NEFT transfer for domestic bidders for CPRI, Bengaluru.

Beneficiary Name : CENTRAL POWER RESEARCH INSTITUTE

Bank Name & Address : STATE BANK OF INDIA, IISC BRANCH
BENGALURU

IFSC : SBIN0002215

Beneficiary Account No. : 10356553310

Type of Account No. : SAVINGS ACCOUNT