



**RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY,  
RATAPUR CHOWK, RAE BARELI 229 316 (UP)**

**Telephone: +91 535 2217427, Tel +91 535 2704209 Fax: +91 535 2211888**

Tender Ref: RGIPT/RBL/Engg-works/2011-12/02

December 02, 2011

## **TENDER DOCUMENT**

**NAME OF JOB: SUPPLY, INSTALLATION AND COMMISSIONING OF  
01 NO. LT- PANEL BOARD /POWER DISTRIBUTION BOARD  
AT ACADEMIC CAMPUS, RGIPT, RAE BARELI**

Last Date of Submission of Tender: 23.12.2011(Friday) at 16:00 hrs.

Date of Opening of Tender: 23.12.2011(Friday) at 17:00 hrs.

Place of Enquiry on Tender: Administration Department- Academic Campus of  
Rajiv Gandhi Institute of Petroleum Technology,  
Ratapur Chowk, Rae Bareli (UP).

Place of Opening of Tender: First Floor, Conference Room, Academic Campus,  
Rajiv Gandhi Institute of Petroleum Technology,  
Ratapur Chowk, Rae Bareli.



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### **NOTICE INVITING TENDER (NIT)**

**Sub: Tender for Supply, Installation and Commissioning of 01 no. LT Panel Board/Power Distribution Board at Academic-Campus, RGIPT, Rae Bareli**

#### **Introduction:**

Rajiv Gandhi Institute of Petroleum Technology, Rae Bareli being set up by the Ministry of Petroleum and Natural Gas (MOP&NG), Government of India, as an apex level Educational Institute of National Importance in line with IIT's under an Act of Parliament. The Institute is empowered to award degrees in its own right. RGIPT is co-promoted as an energy domain specific institute by six leading Oil Public Sector Units (ONGC, IOCL, OIL, GAIL, BPCL and HPCL) in association with the Oil Industry Development Board (OIDB). The Institute is associating with leading International Universities/Institutions specializing in the domain of Petroleum Technology.

We will be pleased to receive your most competitive offer for “**Supply, Installation and commissioning of 01 no. LT Panel Board at Academic-Campus, Rajiv Gandhi Institute of Petroleum Technology, Rae Bareli,**” as per the Drawing attached as **Annexure-1** and specifications given in the tender document. Your quoted rates shall be inclusive of all applicable taxes, duties, freight etc. and shall remain firm till completion of work. Your offer for “supply, installation and commissioning of 01 no LT Panel Board at Academic-Campus” shall be valid for a minimum period of 90 days.



The tender must accompany the stipulated **EMD of Rs. 5,000/-** (Five Thousand Only) in the form of demand draft on a schedule /nationalized bank in favor of “Rajiv Gandhi Institute of Petroleum Technology” payable at New Delhi. The Tender without the Demand Draft of EMD will liable to be rejected. However, the enlisted contractors of RGIPT shall be exempted from paying the EMD amount as the above.

**Payment terms:**

The following terms of payment will apply:

- a.) RGIPT will not pay any mobilization advance.
- b.) “On Account” shall be paid based on actual work done and approved by RGIPT, after full and satisfactory completion of job.

Thanking You,

Yours Sincerely,

**For Rajiv Gandhi Institute of Petroleum Technology,**

Sanjay Singh,  
Asst. Executive Engineer (Electrical)  
**(On Behalf of Director, RGIPT)**



Tender Ref: RGIPT/RBL/Engg-works/2011-12/02

December 02, 2011

**Tender for Supply, Installation and Commissioning of 01 no. LT Panel Board at Academic-Campus, RGIPT, Rae Bareli**

**Section-“A”**

Sealed tenders are hereby invited from the reputed Vendors who are having minimum 02 years of experience of similar electrical works in Government Institutions/reputed private/public sector companies.

The clarifications (if required) about the job/work may be obtained from Asst. Executive Engineer (Electrical) on any working day between 11-00 hrs to 13-00 hrs from **13.12.2011 to 19.12.2011.**

Tender should be sealed cover and super-scribed “**Supply, Installation and commissioning of 01 no. LT Panel Board**” and Addressed to: **The Director**, RGIPT, Ratpur Chowk, Rae Bareli and should be dropped in the tender box kept in the Room No. 103 of P.A. to Director’s Office on ground floor at Rajiv Gandhi Institute of Petroleum Technology, Ratapur Chowk, Rae Bareli - 229316 between 11-00 hrs to 17-00 hrs on all working days.

The last date for submission of the tender is **23.12.2011 (Wednesday) at 16:00 hrs.**

The tenders will be opened on the same day by **Tender Opening Committee-RGIPT** at **17:00 hrs** in presence of the bidders who wish to remain present. The Bidders attending should carry letter of authority from their firm/agency.



**Tender for Supply, Installation and Commissioning of 01 no. LT Panel Board at Academic Campus, RGIPT, Rae Bareli**

**Section –“B”**

Tender Ref: RGIPT/RBL/Engg-works/2011-12/02

December 02, 2011

**General terms & conditions and instructions to the bidder:**

**B.1 Tender filling up and submission**

(a)	Tender offer must refer to the letter/Notice inviting the Tender.
(b)	The tender should be sealed and closed cover super-scribed “Electrical Works complete with Supply, Installation and Commissioning”
(c)	Tenders must be submitted with all the information asked for in the tender document and indicated as summary in the list, of documents to be submitted.
(d)	All prices must be quoted in Indian Rupees, both in figures and in words will be considered for price comparison. All writings should be in ink. Any cutting should be signed by the tenderer.
(e)	The tender submitted must not contain any ambiguity. Any such ambiguity in the Quote submitted shall make it liable for rejection.
(f)	The bidder with company seal must sign on each page of the tender documents.
(g)	The tender document is not transferable.
(h)	No amendment to the tender in any form by the bidder will be permitted after opening of the tenders. No conditional offers shall be accepted.
(i)	Submission of tender will bind the bidder to the acceptance of all conditions specified in the tender document.

**B.2 Price Validity**

(a)	All prices quoted must be firm and valid for at least 03 months from the date of opening of the tender.
(b)	All price quoted shall not be affected by any escalation in price of labor or Materials, machinery, equipment etc. or in rupee exchange rate during the price validity period what so ever.



### **B.3 Earnest money deposit**

(a)	An earnest money Deposit of <b>EMD of Rs.5,000/-</b> (Five Thousand Five Only) is to be deposited through DD drawn in favor of Rajiv Gandhi Institute of Petroleum Technology, on any nationalized bank/scheduled bank payable at New Delhi.
(b)	Tender not accompanied with prescribed earnest money deposit are liable to be rejected.
(c)	The EMD of the unsuccessful Tenderers shall be returned after final acceptance and Successful award of the job to a winning tenderer and within reasonable time not exceeding six months from the date of opening of tender. The EMD will carry no interest.
(d)	The EMD of the successful tenderer shall be converted into the security deposit against performance guarantee for a period of 06 months only. On completion of stipulated period it will be Refunded.
(e)	The EMD will be forfeited if the bidder withdraws his offer before finalization of the Tender.

### **B.4 Tender Acceptance and Rejection**

(a)	RGIPT reserves the right to reject any part or whole of the tender without assigning any reason whatsoever.
(b)	RGIPT is not bound to accept the lowest tender.
(c)	RGIPT reserves the right to place even partial or repeat orders within the period of agreement at the same cost, terms and conditions of the tender accepted.

### **B.5 Payment & Dues to the Institute**

(a)	Payment against bill shall be made only after satisfactory supply, installation and commissioning of Electrical Works in the scope at RGIPT Site to the satisfaction of Engineer in-charge, RGIPT. No interest will be payable on the non-payment due to delayed submission of bill and non-satisfactory services.
(b)	The payment will be released within 15 days of submission of bill.
(c)	No advance payment will be made to the agency in any case.
(d)	The payment will be made by Accounts deptt. After making statutory deductions like applicable TDS from the net payable amount.
(e)	Payment will be made direct to the agency through account payee cheque. No request for other mode of payment will be entertained.



## **TECHNICAL SPECIFICATION OF 01 NO. LT- PANEL BOARD /POWER DISTRIBUTION BOARD FOR RGPT, RAE BARELI**

### **1. Technical :**

- i. The Panel shall be suitable for operation at 415 +/- 6% Volts, 50 Hz, 3-phase,4-wire + Earth system.
- ii. The Panel shall be fabricated out of 2.00 mm/3.00 mm CRCA Sheet Steel.
- iii. Panel will be free Standing, floor mounting type having provision for cable entry from bottom and suitable for indoor as well as outdoor Installation.
- iv. Panel will have suitable Mounting Stand made up of MS steel complete with black metal paint etc. MS stand should be fabricated such that the minimum height (clearance) from floor to panel bottom is 02 feet, complete with grouting arrangement on the floor and panel mounting arrangement on MS stand using suitable MS Nut and bolts.
- v. The panel will be extensible type in design with dust and vermin proofing.
- vi. The Panel will conform to IS 8623/IEC-439-Factory built assemblies of Switchgear and Control Gear and is 4237-General Arrangement of Switchgear & control Gear for Voltage not exceeding 1000 Volt.

### **2. Sheet Metal Work :**

- i. The switch gear frame shall be fabricated using mild steel structure sections of pressed and shaped cold rolled sheet steel of thickness not less than 2.00 mm/3.00 mm. Frame shall be enclosed by sheet steel of thickness not less than 2.00 mm/3.00 mm cold rolled smoothly finished leveled and free from flaws, doors and covers shall be cold rolled sheet.
- ii. Stiffeners shall be provided wherever necessary.
- iii. Cut-outs shall be true in shape and devoid of sharp edges.

- iv. The complete structure shall rigid, self supporting and free from vibrations, twists and bends.
- v. Panel should have **powder coated** with min. layer of 60 micron after passing through different stages of pre treatments.

### **3. Bus Bars :**

- i. Bus bars shall be uniform cross section throughout the length of the switchgears and will be housed in a separate compartment.
- ii. The bus bars shall be of high conductivity Electrical **Copper** Flats of size 10 mm thickness X 25 mm width. And shall be supported on SMC/DMC supports of suitable thickness.
- iii. Bus bars will be insulated with heat shrinkable sleeves and codified in Red, yellow, blue and Black colors as per standard practice.
- iv. Bus bars shall be adequately supported to withstand the stresses arising during transient conditions.

### **4. Internal Wiring :**

- i. Wiring inside the switchgear shall be carried out with 1100 Volts Grade, PVC flexible Copper Wire.
- ii. Minimum Size of conductor for Power Circuits is **2.5 Sq. mm copper** while the control Circuits shall be wired with copper conductor of at least **1.5 Sq. mm copper** for CT circuits and other circuits.

### **5. Labels:**

- i. All labels shall comprise white letters on Black Background.
- ii. Labels shall be made of engraved PVC sheet.
- iii. 02 nos. **440 Volts Danger boards** of approved design and size by UP Electricity commissioner or Central Electricity Authority or any other Govt. agencies, should be fixed and displayed prominently on the front of the LT panel.

### **6. Earthing:**

- i. Panel shall be provided with Copper earth bus bars (both ends) running along the entire length of the board as per IS: 8623.
- ii. Earth Bus bar shall be supported at suitable intervals.

## 7. Testing:

Prior to dispatch, the panel will be subject to:

- i. Operation Test.
- ii. Insulation test at 2.5 KV for 1 Minute.
- iii. Megger-Test by 1000 V Megger.

## 8. Min. items needed to be provided in LT-Panel(PDB) (Indicative List):

The details are as under:

S. No.	Item Description	Cat No.	Qty	Make
<b>01</b>	<b>Incoming:</b>			
	MCCB 200A, 36KA FP Adjustable thermal & Adjustable Magnetic	IHL CNF0200	01	Havells/Equivalent, ISI Marked
<b>02.</b>	<b>Incoming Metering:</b>			
	Amp Meter 200/5 A, Digital type		01	Conzerv /equivalent, ISI marked
	Volt Meter 0-500V, Digital Type		01	Conzerv /equivalent, ISI marked
	KWH Meter		01	Conzerv /equivalent, ISI marked
	Amp Selector Switch		01	Vaishno / equivalent, ISI marked
	Volt Selector Switch		01	Vaishno / equivalent, ISI marked
	Phase Indicating Lamp (R,Y,B) LED		03	Rass (C&S)/Equivalent
	Current Transformer 200/5 A		03	AE/Equivalent, ISI marked
	MCB 6A SP		03	Legrand/Equivalent
<b>03.</b>	<b>Outgoing:</b>			
	MCCB 125 A 36 KA FP Adjustable thermal & fixed Magnetic	IHL ANFO125	04	Havells/Equivalent, ISI Marked



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**Section "C"**  
**PART – I (Technical Bid)**

Tender Ref: RGIPT/RBL/Engg-works/2011-12/02

December 02, 2011

**Tender for Supply, Installation and Commissioning of 01 no. LT Panel Board**

**Tenderer has to fill the following Details compulsorily in the format as under:**

**Details E.M.D. (Rs.5, 000/-)**

Draft No.....Issuing Bank.....Date .....

S.No.	Particulars	Details to be filled in by the Agency/Firm
1.	Name of the Agency/ Contact Person	
2.	Regd. Office/ Business Address of the Agency	
3.	PAN / TIN No. of the Agency (Attach Copy of Registration Certificate)	
4.	Service Tax Registration No.(if applicable) (Attach Copy of Registration Certificate)	
5.	Firm's Experience Certificate for Min 02 years in the business ( Attach copies)	
6.	The item wise technical specification compliance statement with detailed catalogues of the product should be provided by the bidder.	

**Declaration:**

1. I/we agree that the decision of RGIPT, Rae Bareilly in selection of Bidders will be final and binding to me/us.
2. I/we undertake to inform any change in the constitution of the firm, as and when it takes place. The continuation of the awarded Job subsequent on such alteration will be at sole discretion of RGIPT, Rae Bareilly.
3. All the information and data furnished herewith are true and correct to the best of my/our knowledge & belief.

**Place/Date:**

**(Name, Designation and Signature  
With Seal of the Company)**



**PART – II (Price Bid)**

**Tender for Supply, Installation and Commissioning of 01 no. LT Panel Board (Power Distribution Board) at Academic Campus, RGIPT, Rae Bareli**

Tender Ref: RGIPT/RBL/Engg-works/2011-12/02

December 02, 2011

**Please quote in the following format:**

<b>Sr. No</b>	<b>Particulars</b>	<b>Qty</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
<b>I</b>	<b>SUPPLY:</b> Supply of Brand new <b>LT-Panel Board</b> (Power Distribution Board) as per attached Sketch as <b>Annexure-1</b> With <b>01 no. MS Stand</b> including transportation, insurance, packing& forwarding, loading/unloading, labor, all taxes and Duties such as VAT, Excise Duty etc. on F.O.R. RGIPT Rae Bareli (UP)	01 Set		
<b>II</b>	<b>Installation, Testing and Commissioning</b> of above LT-Panel (Power Distribution Board)	01 job		
	<b>TOTAL (in Rs.)</b>			

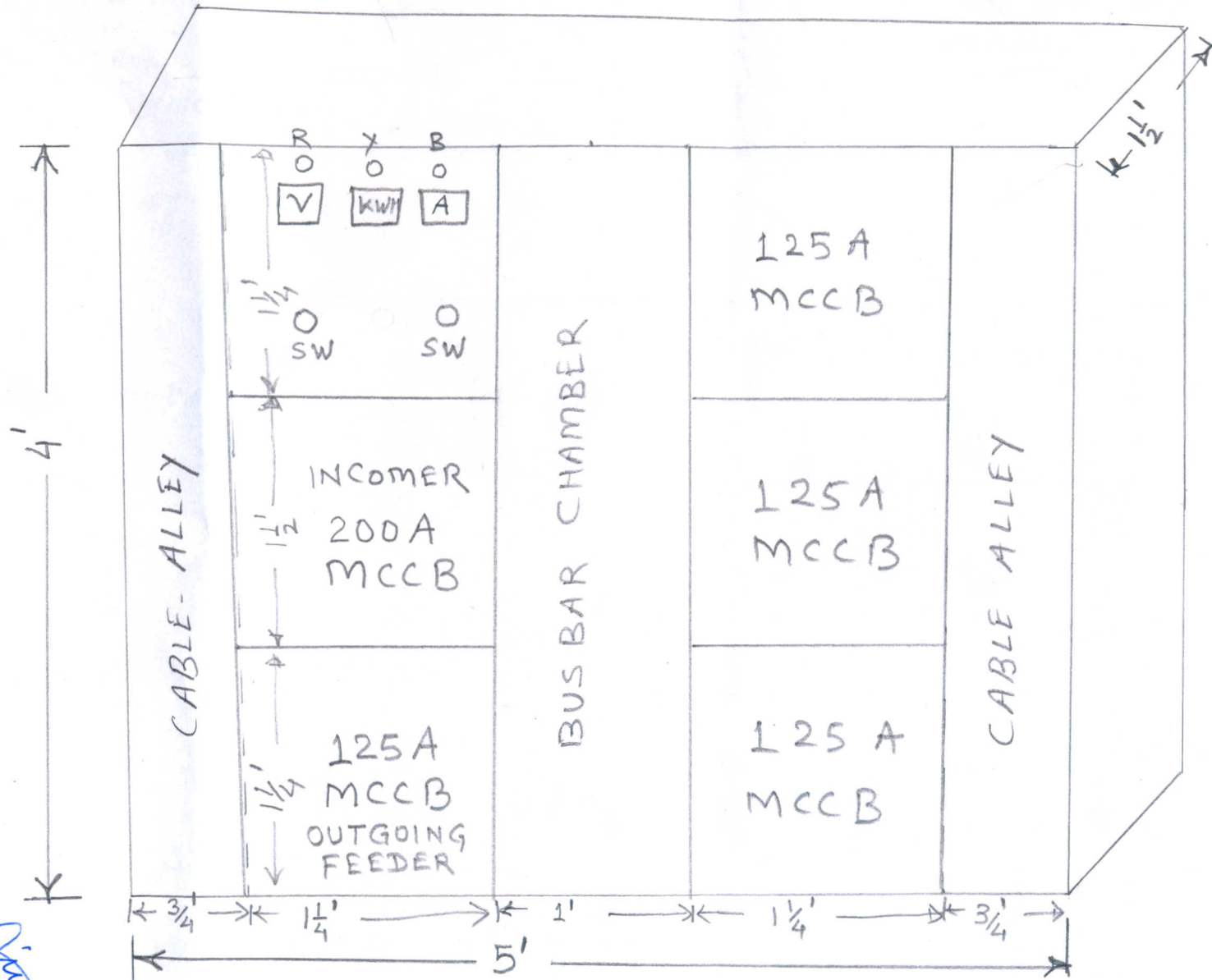
Total Amount quoted in Words: \_\_\_\_\_

Name (In Block Letters)

Signature of the Bidder  
With date & Seal.

# POWER DISTRIBUTION BOARD FOR NEW CONSTRUCT.

A.1.



*(Signature)*

21/10/11

- ① Copper bus bar of suitable rating (min. 10mm x 25mm) to be used. (Thickness) (width)
- ② SW (Selector switch)
- ③ R, Y, B: Phase indicating Lamps,
- ④ Panel to be made with min. 3mm thickness MS sheet with paint