

**DURGAPUR CHEMICALS LIMITED**  
(A Govt. of W. Bengal Enterprise)  
P.O. - Durgapur - 713215, Dist: Burdwan  
An ISO 9001:2008 & 14001:2004 Certified Co.

**NOTICE INVITING TENDER**

Invites Sealed tenders in two bids (Techno - Commercial) for :-

**“TENDER FOR REVAMPING OF COOLING TOWERS.”**  
NIT No. : DEV/DCL/TEND/RCT/111/37, Dated: 07.01.2012

Tender Form will be available from the office of the Chief Development Engineer from 14.01.2012 to 31.01.2012. For details visit our website [www.durgachem.com](http://www.durgachem.com).

Sd/-  
Chief Development Engineer



**TENDER**

FOR

**REVAMPING OF COOLING TOWERS**

FOR

**DURGAPUR CHEMICALS LIMITED**

(A GOVT. OF WEST BENGAL ENTERPRISE)

DURGAPUR - 713 215, DIST - BURDWAN

WEST BENGAL (INDIA)

AN ISO 9001 - 2008 & 14001 - 2004 CERTIFIED COMPANY

**DURGAPUR CHEMICALS LIMITED**  
**(A GOVT. OF WEST BENGAL UNDERTAKING)**

**AN ISO 9001 – 2008 & 14001 – 2004 CERTIFIED COMPANY**

**WORKS OFFICE:**

P.O. DURGAPUR  
DIST. BURDWAN  
WEST BENGAL  
PIN – 713215.  
PHONE NO: +91-343 - 2559591  
FAX NO. : +91-343- 255-6667  
**Email:**  
**dclldgp@sancharnet.in, atul\_dcl@rediffmail.com**  
Website : [www.durgachem.com](http://www.durgachem.com)

**REGD. OFFICE :**

6, LITTLE RUSSEL STREET  
CALCUTTA – 700071.  
PHONE NO: (033) 2287-1552  
FAX NO : (033) 2287-1559  
**E-mail: dclkol@vsnl.net**

NIT : DEV/DCL/TEND/RCT/111/37, Dated: 07.01.2012

**FOR**

“TENDER FOR REVAMPING OF COOLING TOWERS.”

CHIEF DEVELOPMENT ENGINEER  
(DURGAPUR CHEMICALS LIMITED)

## **INTRODUCTION:**

Durgapur Chemicals Limited (DCL), a Govt. of W.B. Undertaking was established in the year 1963 on 31<sup>st</sup> July under the Company Act 1956, having its registered office at 6, Little Russel Street, Kolkata – 700071 and factory at Durgapur – 713215, Dist – Burdwan (W.B.) India.

DCL is the manufacturer of chemicals like Caustic Soda, Chlorine, HCl, Stable Bleaching Powder, Monochloro Benzene, Di-chloro Benzene Sodium Pentachloro Phenate etc. and markets its products in the entire Eastern zone of India.

The conversion of the Mercury Cell to the Ion- Exchange Membrane Cell is being completed due to rising power cost and elimination of Mercury Cell Technology on environmental considerations.

Durgapur is one of the major industrial city of the country. The city is well known for Steel manufacturing and DCL is surrounded by mainly Steel Plants. The company has all requisite infrastructures for the proposed expansion of the existing plant.

**DURGAPUR CHEMICALS LIMITED**

(A GOVT. OF WEST BENGAL UNDERTAKING)

DURGAPUR 713215

DIST. – BURDWAN, (W.B.)

INDIA

From the office of Chief Development Engineer

NIT : DEV/DCL/TEND/RCT/111/37, Dated: 07.01.2012

Issued to :

SUB : "TENDER FOR REVAMPING OF COOLING TOWERS."

Dear Sir(s),

Kindly submit your tenders for the above in accordance with the instructions as specified to the intending tenderers, within the scheduled due date as stated below:

Last date & time of receipt of request : Upto 3.00 PM (IST) of **31.01.2012**

Issue of Tender Documents : From **14.01.2012 to 31.01.2012**  
FROM DCL, DURGAPUR (W.B.), INDIA OR CAN  
BE DOWNLOADED FROM OUR WEBSITE  
[www.durgachem.com](http://www.durgachem.com)

Last date & time of receipt & opening of the Techno commercial bid : **3.30 PM (IST) of 31.01.2012**

**COST OF TENDER DOCUMENTS : NIL**

THE TENDER DOCUMENTS CAN BE DOWNLOADED FROM OUR WEBSITE UPON REQUEST THROUGH E – MAIL.

Yours faithfully,

CHIEF DEVELOPMENT ENGINEER  
DURGAPUR CHEMICALS LTD.

1. **COMPLETION PERIOD:**

The completion period for entire scope of work should be within 5 (Five) months from the effective date of the contract.

2. **DATE OF COMMENCEMENT OF ISSUE OF TENDER FROM 14.01.2012 TO 31.01.2012**

3. **BID DUE DATE AND TIME : 31.01.2012 , 3.00 PM (IST)**

4. **BID VALIDITY : SIX MONTHS**

5. **TECHNO-COMMERCIAL BID OPENING DUE DATE AND TIME: 31.01.2012, 3.30 PM (IST)**

6. **VENUE OF OPENING: DURGAPUR CHEMICALS LTD., DURGAPUR (W.B.)**

7. **a)** Bidding document is non transferable. Bidder must submit the bid directly. Bids received from bidders in whose name bidding document has been issued, shall only be considered.
- b)** Sealed Bids complete in all respects and duly signed by authorized representative should reach DCL on or before the BID DUE DATE AND TIME. Fax / E-mail bids shall not be entertained and hence be rejected. Bidders are requested to submit their bid documents through their couriers on free delivery to us. After opening of bid DCL may ask bidder to send clarification on Techno – commercial bid through E – mail.
- c)** DCL shall not be responsible for cost incurred toward preparation and delivery of bids.
- d)** DCL reserves all rights to reject any or all the bids received at its discretion without assigning any reason whatsoever.
- e)** There shall be no scope for any re-bid.

- f) DCL reserves the right to assign the work to any one of the bidders at its absolute discretion and not necessarily to the lowest bidder.

## DECLARATION OF THE BIDDER

**SUB :** "TENDER FOR REVAMPING OF COOLING TOWERS."

**Tender Notice No. :** DEV/DCL/TEND/RCT/111/37, Dated: 07.01.2012

Dear Sir,

With reference to your Tender Notice for the above work, we / I hereby submit our/my tender price bid in separate sealed envelope.

\* The terms and conditions as mentioned in the tender documents are acceptable to us / me. One copy of each of your terms and conditions in each page duly signed with company's seal, by us / me is enclosed. The declaration form is enclosed.

\* A copy of our / my Income Tax Clearance Certificate (latest) is enclosed.

\* Our / my Permanent Account No. (If any) is \_\_\_\_\_.

\* A copy of our / my sales tax clearance certificate (latest) is enclosed. Our / my sales tax registration no. is \_\_\_\_\_.

We / I give details of our / my experience for last 3 years for the above type and size of work in the enclosed "Annexure" supported by copies of orders / agreement and performance certificates from the customers.

We / I hereby declared that we / I have not been debarred from tendering for contracts in any of the department of Govt. of India / Undertaking.

We / I also certify that the information given by us / me in the tender documents is correct and if at any stage the same is found to be incorrect, the contract will be liable to be terminated / rescinded and action may be taken against us / me by the DCL for claim against damages & losses.

We / I are / am duly authorized / empowered to sign all the tender documents.



A).NAME OF THE TENDERER :

B).FULL POSTAL ADDRESS:

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C). PHONE NO. –

RES. : \_\_\_\_\_

OFFICE : \_\_\_\_\_

MOBILE : -----

D). FAX NO. - \_\_\_\_\_

E) E-MAIL - \_\_\_\_\_

F) Website - \_\_\_\_\_

Yours faithfully,

(SIGNATURE OF THE TENDERER)  
COMPANY'S SEAL

WITNESS:

1).

2).

NIT : DEV/DCL/TEND/RCT/111/37, Dated: 07.01.2012

## **PART- I**

# **TECHNO-COMMERCIAL BID**

## **CONTENTS OF TENDER DOCUMENTS**

Tender documents complete in all respects comprise the following two parts which tenderer shall ensure at the time of receiving of tender papers.

**PART – 1 (a)** – Instructions to the tenderers & Local conditions of plant site, Details of existing facilities at DCL works, ANNEXURE “A”.

**PART – 1 (b)** – Material requisition for Cooling Tower.

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# **TECHNO – COMMERCIAL BIDS**

**PART – 1(a)**

# **INSTRUCTIONS TO THE INTENDING TENDERER**

## **1. CAPACITY OF THE TENDERER**

**1.1) Technical Capacity** : Proven Technology and should have supplied to other similar plant in India / Abroad.

1.1.1) The tenderer shall furnish a detailed statement of similar nature of jobs which shall include capacity, location, date of initial operation & commissioning and performance certificate, etc. The tenderer should have design / engineering / supply / erection and commissioned at least twenty such equipment of same or more capacity to other similar organization working since last 5 years.

1.1.2) The tenderer shall satisfy Durgapur Chemicals Ltd. (herein after called DCL or Purchaser) that they possess the necessary technical experience, expertise qualification, manufacturing facilities and proven track record and that they have adequate & necessary facilities and specialized technical personnel to ensure that the contract work will be of best quality and workmanship according to the latest engineering practice. The tenderer shall furnish necessary particulars in this behalf with the tender.

## **2. LEGAL CAPACITY**

2.1) The tenderer shall satisfy the Purchaser that they are competent and authorized to submit Tender and / or to enter into a legally binding contract with the Purchaser. To this effect, any person giving a tender shall render documentary evidence that his signature on the tender, submitted by him, is legally binding upon himself, his firm or company, as the case may be.

2.2) A person signing the tender form or any document forming part of the contract on behalf of another shall be deemed to warrant that he has authorized to bind such other and if it is found any time, the person so signing had no authority to do so, the Purchaser may, without prejudice to other legal remedies, cancel the contract and hold the signatory liable for all costs and damages.

2.3) Any director or partner(s) or authorized signatories of the tenderer should not be convicted by court of any offence.

## **3. FINANCIAL CAPACITY**

3.1) The tenderer shall produce satisfactory proof that they are financially in a position to fulfill the contractual obligations offered to be undertaken by them. The tenderer shall submit Income tax and Sales tax clearance certificates along with the tender.

#### **4. SUBMISSION AND ARRANGEMENT OF TENDER.**

4.1) The tender should be submitted written in only English language.

4.2) The tender should be plain and legibly typed, written on white paper with consecutively numbered pages neatly arranged in solid binding and shall be submitted in 2 (two) separate parts as detailed below.

Techno-Commercial & Price bid.

Any part should not contain any terms and conditions printed or otherwise, which are not applicable to the Tender. Insertions, postscripts, additions and alterations shall not be recognized, unless confirmed by the Tenderer's signature and official stamp.

#### **5. PRICE BID**

5.1) The Tenderer shall furnish price schedule in separate copies in sealed envelope super scribed "**PRICE BID**".

#### **6. PAYMENT TERMS**

##### **6.1 REVAMPING OF COOLING TOWERS**

a. **20%** of the price amount will be paid as advance against Contractor's Invoice within 30 days of signing Contract / order upon producing a Bank Guarantee for equal amount valid until delivery of the equipment

b. Balance **80%** -pro-rata payment as per agreed schedule against producing Invoice / shipping documents along with a bank guarantee of **10%** of the price valid up to the guarantee period

##### **6.2 For erection, commissioning including start-up, Guarantee Test Run and Training of DCL Personnel.**

Price will be paid according to mutually agreed daily rate and terms of delegation separately against Contractor's Invoice upon acceptance of the Plant.

## **7. Technical Assistance**

Any income tax payable in respect of such payment for technical assistance service will be to the account of Contractor and DCL shall be entitled to deduct such tax at source and pay the same to the department.

As evidence of such tax payments, DCL shall obtain certificate of such payment from competent tax authorities and transmit the same to Contractor. Income tax to be paid in India by any Contractor pursuant to execution of contract and to be withheld by DCL at source shall be borne by the Contractor.

**8.** DCL reserves the right, during the course of Engineering Meetings to suggest changes in and/or additions to the specifications of Equipment. No change order shall become binding unless it is confirmed in writing by the parties hereto and any such change may require any change in start up date or any agreed change in cost as may be agreed as stated in clause.

**9.** If such changes and / or additions cause an increase or decrease in obligations of CONTRACTOR under CONTRACT, or affect or alter the delivery schedule of EQUIPMENT, and equitable and reasonable adjustment of CONTRACT PRICE and / or the delivery schedule shall be made on mutual agreement basis.

## **10. SHIPPING TERMS**

10.1 Contractor shall deliver MATERIALS to DCL on freight paid basis.

10.2 Packing of materials shall be of manufacturer's standard and as per usual practice and as such acceptable to DCL and there shall be a packing list of all materials so packed, Contractor shall give DCL or its nominated agent the shipping advice in writing immediately after shipment.

## **11. TEST & INSPECTION**

11.1 DCL may send its representative to Contractor's plant and/or vendor's plant at DCL's expense to inspect or witness the test of materials before dispatch of such materials.

CONTRACTOR shall notify DCL the date and place at least two (2) weeks prior to the date on which test or inspection it to be made. Such inspection or witnessing of the test of materials by the representatives of DCL shall not in any way affect the liabilities of Contractor towards the quality standards and specifications of the materials.

11.2 Records and/or certificates of each test and/or inspection by such inspection agency as may be stipulated by DCI shall be submitted to DCL by Contractor regardless or whether DCL 's representative attend or do not attend such test and/or inspection.

## **12. DELIVERY SCHEDULE**

CONTRACTOR shall deliver EQUIPMENT to DCL in accordance with the PERT chart/network analysis so as to ship goods within two (2) months of effective date of Contract

## **LOCAL CONDITIONS**

### **1.0) LOCATION**

The Durgapur Chemicals Limited (DCL) (A Govt. of West Bengal undertaking) is located in the industrial town of Durgapur, dist. – Burdwan in the state of West Bengal. The nearest trade center is Calcutta at a distance of 160 Km by rail and about 180 Km road. The existing works at Durgapur Chemicals Limited is about 1 km form the bank of river Damodar, just on the upstream of Durgapur barrage on Damodar river.

### **2.0) CLIMATIC CONDITIONS**

The climatic conditions prevailing at Durgapur (Lat 23de.30min B to 23deg.31min N, Lon 87deg.18min W, height above MSL 73 M) are generally indicated below:

Environment : Tropical Industrial

Maximum of mean daily temperature : 39.0 deg. C

Minimum of mean daily temperature : 11.5 deg. C

Absolute minimum temperature : 5.5 deg. C

Absolute maximum temperature : 47.2 deg. C

Design wet bulb temp. : 28 deg. C

Relative Humidity (maximum) : 90%

Relative Humidity (minimum) : 46%

Average Precipitation yearly : 4500 mm



The maximum of mean monthly precipitation is 3500 mm. During the monsoon a maximum precipitation of 75 mm per hour shall be assumed for one hour. The storm water outfall leads to Tamla Nullah.

### **3.0) SUSCEPTIBILITY TO EARTHQUAKE**

The plant is situated in a region falling under Zone III as shown in IS 1893.

### **4.0) WIND LOAD**

The prevailing wind direction is from SE to SW during summer months and N & NW for winter months. As per IS 875, Durgapur is situated in wind Zone with basic maximum wind pressure at 150kg/cm<sup>2</sup> inclusive of winds of short duration as in squalls.

### **5.0 RAILWAYS**

The broad gauge main line at Eastern Railway connecting Howrah, Asansol passes through Durgapur Railway station. The plant site is about 4 km from Durgapur station. Nearest Railway marshaling yard is at Andal, about 16 km away from Durgapur Railway station.

### **6.0 ROADS**

The grand Trunk (GT) road connecting Kolkata and Asansol passes at a distance about 7 km from the plant site and the site is connected to the GT Road by all weather road.

### **7.0 SEA PORT**

The nearest Sea Port is at Kolkata / Haldia.

### **8.0 AIR PORT**

The nearest International / domestic Air Port is at Kolkata

### **9.0 COMMUNICATION**

For all clarification and correspondence related to Tender documents the tenderer shall communicate as follows:

Chief Development Engineer  
Durgapur Works

Tel. +91-343- 2559591  
Fax No.- +91-343- 2556667  
Email: – dclgdp@sancharnet.in  
atul\_dcl@rediffmail.com

The provision of the above information is for Tenderers' general guidance only and does not relieve him of his responsibility to satisfy himself of the site conditions and sufficiency of his Tender.

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**Technical Specification of Existing Cooling Towers**

Durgapur Chemicals Limited are having Cooling Tower of 600 CMH x 2 cells.

The Cooling Tower specification :-

Make	:	Paharpur Cooling Tower
Mode	:	Series 6 KF, 6092 x 2 (TO)
Type	:	Induced draft cross flow
No of towers	:	2 (Two)
Dimension of each towers	:	Tower overall approx. (L x W x H) = 4075 x 5932 x 5223
Empty Weight	:	3735 Kg
Operating Weight	:	11760 Kg
Fan	:	120 inch / 9 blades
No of Fan / Towers	:	One
Speed	:	320

The existing cooling towers are having curtain type PVC fills. We intend to replace the curtain type PVC fills with Timbers of Chemically treated pine wood for Timber cooling towers, keeping main structure hot basins, fans unaltered.

- a. Features of construction : The framework will be of chemically treated pine wood as per IS : 2372
- b. Casing & louvers : Corrugated Asbestos cement board.
- c. Fills & Fills support : The fills will be of wooden splash base supported on SS grids.
- d. Drift Eliminators
- e. ASCU treated Timber
- f. Hot water basin : If required to be extended with nozzles.

**Scope of supply & services** : All materials required to revamp / modify the cooling towers with erection.

### DURGAPUR CHEMICALS LIMITED

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 P.O. - Durgapur - 713215, Dist: Burdwan  
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#### PRICE SCHEDULE

Sl. No.	Description	Qty.	Rate (Rs.)	Amount (Rs.)
1.	<b>SUPPLY ITEMS :</b>			
			Total (Rs.)	
			Add : Tax	
			<b>Total Amount (Rs.)</b>	
2.	<b>ERECTION CHARGE</b>			
			Total (Rs.)	
			Add: Service Tax	
			<b>Total Amount   Rs.</b>	

Signature of Authorized representative of bidder