

Invitation for Bid

For the supply, installation and maintaining Modems at zonal offices of CPCB required for establishing MPLS network.



Central Pollution Control Board
Parivesh Bhawan
East Arjun Nagar, Delhi -110 032

27th May, 2014
Version 1.0

Important Information and Dates

1	Cost of Bid Document	Nil
2	Bid Opening Date	28.05.2014
3	Last Date of Submission of Bid	11.06.2014 before 3:00 pm
4	Date of opening of Bid	11.06.2014
5	Venue	Central Pollution Control Board, 5 th Floor Committee Room, Parivesh Bhawan, East Arjun Nagar, Delhi-32
6	Bid Submission System	a. Financial Bid in a Sealed Envelope
7	Bidding System	a. Only Financial bid is to be submitted

Terms of Reference (TOR)

For the supply, installation and maintaining Modems at Zonal offices of CPCB required for establishing MPLS network.

1.0 Background

CPCB is a statutory organisation constituted in September, 1974 under the Water (Prevention and Control of Pollution) Act, 1974. Further, CPCB was entrusted with the powers and functions under the Air (Prevention and Control of Pollution) Act, 1981. CPCB intends to automate its office by means of state of art technology based systems of Local Area Networks, database units etc., for which it is desired to establish MPLS network among its Zonal Offices. To operate this MPLS (Multiprotocol Label Switching) network Modems have to be procured.

2.0 Present Scenario

Most of CPCB Zonal Offices have LAN network but the network is in-secure and heterogeneous. The locations of Zonal Offices is attached at Annexure-I.

3.0 Scope of Work

The key objectives of the Scope of Work are:

- ❖ To supply the Modems at respective locations of CPCB and BSNL
- ❖ To Install Modems at respective locations. (BSNL may install the modems on its own and your representative need to help)
- ❖ To maintain Modems which shall be installed at BSNL and CPCB premises as and when need arises.

3.1 Requirement details:

S. No.	Description*	Quantity
1	Modems at BSNL end (G.703 protocol) Modems for MPLS connectivity at respective Zonal Offices/HO. Specifications Attached at Annexure-II	10
2	Modem at CPCB end (V.35 protocol) Modems for MPLS connectivity at respective Zonal Offices/HO. Specifications Attached at Annexure-III	10

*Item mentioned above should be compatible to BSNL's present day technology. If there is any issue on installation at site, your Engineer need to visit and resolve the issue

3.2 TERMS AND CONDITIONS OF THE BID

3.3 Qualifying Conditions for Submitting tender: -

- ❖ The Modems must be approved by TEC/DOT for use on subscriber owned 2Mbps Leased Data Circuit with distance 5 Km.

3.4 Mode of payment:

- 3.4.1 100% Payment shall be released after successful installation of Modems & due certification from IT Division, CPCB, Delhi. Payment shall be released only on receipt of Performance Bank Guarantee (PBG) of 10% of total price excluding AMC.
- 3.4.2 100% Performance Bank Guarantee (PBG) shall be returned after warranty period.
- 3.4.3 Half Yearly AMC Payment shall be released after six months on satisfactory performance, endorsed by IT Division. AMC payment shall be released only on receipt of Bank Guarantee equal to 10% of yearly AMC amount.

3.5 Delivery period & installation:

The firm will have to deliver the Modems within Four weeks of the issuance of Supply/purchase order at respective places. The installation will depend upon the availability of the BSNL teams for which your Engineer has to organize.

3.6 Submission of Bids

The Bid should contain financial offer along with the Microsoft Certificate.

- (i) Financial Bid should be enclosed in a sealed cover super-scribing the words "Financial Bid for Supply of Modems at ZOs of CPCB for MPLS network"
- (ii) Financial Bid should include total cost of the Bid (including all duties taxes) as well as break up of the costs

Please note that financial Bid should only provide prices.

- (iii) The Bid should be submitted to the "Member Secretary" Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-32 as mentioned in the **Important Information and Dates**.
- (iv) An authorized firm's representative should sign on all pages of Bid.
- (v) Any Bid received after the closing time for submission of Bid shall not be entertained.
- (vi) The Bid must remain valid for at least 120 days from the last date of submission of bid. CPCB will make its best efforts to decide on the Bid within this period.

3.7 Information to the firm

- (i) The CPCB is not bound to accept any of the Bids submitted.
- (ii) At any time before the submission of Bid, CPCB may, for any reason, whether at its own initiative or in response to a clarification requested by an invited firm, amend the scope of procurement. Any amendment shall be issued in writing to the firms and shall be binding on them. CPCB may at its discretion extend the deadline for the submission of Bid.
- (iii) Before submitting the bid, a visit to CPCB may be made, if required for understanding of the actual requirements on any day with prior information to Incharge IT Division or to Sh. Aditya Sharma, Scientist 'C', at Parivesh Bhawan, East Arjun Nagar, Delhi-32. Phone Nos. 22308902 or 43102300.
- (vii) The firm has to clearly indicate all costs in the Price Bid Format, so that, in case of change in quantity, calculation could be done for total amount.
- (viii) The rates should be quoted in Indian Rupees.

3.8 Warranty

Items supplied should have onsite warranty of one year for all hardware, software required. During warranty period, if instrument fails, the possible repair through remote can be done, or if it does not resolve the issue, then Engineer of the firm needs to visit the site. The firm has to ensure error free operation of modems during warranty period.

3.9 Performance Bank Guarantee (PBG)

The firm will submit a Performance bank Guarantee of the value of 10% of the total project cost with a validity of 14 Months from the date of installation of the Modems. The Bank Guarantee shall be released after successful performance of the Modems during warranty period and Penalty if applicable any, shall be deducted from the PBG.

10% Bank Guarantee of total AMC cost, during AMC period and valid for a period of 38 months from the date of start of AMC should be deposited by the firm before signing AMC contract. Penalty if any during AMC period shall be deducted from the running bills of AMC or from the Bank Guarantee submitted during AMC period.

3.10 Annual Maintenance Contract

Items supplied shall be brought under Annual Maintenance Contract (after the warranty period of one year) for a period of Three years on the same terms and conditions as mentioned above. The AMC will cover onsite warranty, Hardware replacement/repair and manpower required for the replacement/repair of the Modems at CPCB/NIC/BSNL ends at all these 07 locations.

Bank Guarantee during AMC Period: The firm will be required to deposit 10% of yearly AMC cost as Bank Guarantee on signing the AMC contract valid for a period of 38 Months. The Agreement copy shall be provided at the time of signing the contract.

3.11 Service Level Agreement (SLA) & Penalty

The firm shall provide escalation matrix for lodging the breakdown or faulty modem complaint.

SLA: If Instrument goes out of order, official concerned at respective Zonal Offices shall lodge a complaint through e-mail and telephone.

- a. Telephonic help should be provided within 04 hours of the lodging of complaint.
- b. If system is down for 24 hours at any location penalty of Rs. 50/- per day shall be levied on per location basis.
- c. If it is not possible to repair the fault and Modem needs replacement/repair at site, it should be done within maximum three working days. Otherwise a penalty of Rs. 50/- per day shall be applicable from the day 1 of failure.
- d. At any single location the instrument should not go out of order for more than twenty five working days in a year else penalty of Rs. 50/- per day shall be levied and calculation shall be based on per location and for the entire number of days in a year when break down occurred.

Maximum penalty under these penalty clauses can be cumulatively

- a. Equal to PBG amount (10% of the total project cost) during Warranty period and
- b. Equal to 50% of AMC amount during AMC period.

If frequent breakdowns are reported, the AMC of the specific site or of all the sites maintaining the Modems may be discontinued.

3.12 Acceptance

It will be presumed that the firms submitting financial bid have gone through the conditions mentioned in this tender document at serial no. 3.2 to 3.11 and have accepted all these conditions.

4.0 Price bid format

Central Pollution Control Board

Bid for Procurement of Modems for MPLS network of CPCB

Sr. No	Item description	Basic Price	Duties/Taxes	Net Amount	Qty.	Total Amount (in Rs.)
1	Supply of Modems at BSNL end (G.703 protocol)				10	
2	Supply of Modems at CPCB ZO end (V.35 protocol)				10	
3	Installation cost at each location					
i.	Zonal Office Bengaluru				1	
ii.	Zonal Office Bhopal				1	
iii.	Zonal Office Kolkata				1	
iv.	Zonal Office Lucknow				1	
v.	Zonal Offices Shillong				1	
vi.	Zonal Office Vadodara				1	
vii.	Project Office Agra				1	
4	AMC cost at each location for next three years after warranty					
i.	Zonal Office Bengaluru				1	
ii.	Zonal Office Bhopal				1	
iii.	Zonal Office Kolkata				1	
iv.	Zonal Office Lucknow				1	
v.	Zonal Offices Shillong				1	
vi.	Zonal Office Vadodara				1	
vii.	Project Office Agra				1	
					Total	

Total amount in Words

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Central Pollution Control Board
Zonal Offices

S. No.	Zonal Office	Contact Person	Address	Tel/Mobile no.	E-mail Id
1.	Zonal Office Bengaluru	Sh. S. Suresh (Scientist 'D' & Incharge)	1st & 2nd Floors, Nisarga Bhavan A-Block, Thimmaiah Main Road 7th D Cross, Shivanagar, Opp. Pushpanjali Theatre, Bengaluru -560 010	080-23233827 (O)	cpbcszo@yahoo.com
2.	Zonal Office Bhopal	Sh. R. S. Kori (Scientist 'E' & Incharge)	3rd Floor, Sahkar Bhawan North TT Nagar Bhopal - 462 003	09425609052(Mob) 0755- 2775587 (O)	rskori@yahoo.com, cpcb.bhopal@gmail.com
3.	Zonal Office Kolkata	Sh R. C. Saxena (Scientist 'D' & Incharge)	Southernd Conclave, Block 502, 5th & 6th Floors 1582 Rajdanga Main Road Kolkata - 700 107	033-2441 6332(Direct)	rcsaxenaa@rediffmail.com
4.	Zonal Office Lucknow	Sh. P. K. Mishra (Scientist 'D' & Incharge)	Ground Floor, PICUP Bhawan Vibhuti Khand, Gomti Nagar Lucknow - 226 010	0522-4087601 (Off.) 09695206868(Mob)	cpublucknow@airbroadband.in
5.	Zonal Offices Shillong	Sh. Zawthanglien (Scientist 'D' & Incharge)	"TUM-SIR". Lower Motinagar Near Fire Brigade H.Q., Shillong - 793 014	0364-2520923 0364-2522859 09436334978(Mob)	zoshillong.cpcb@nic.in
6.	Zonal Office Vadodara	Sh B. R. Naidu (Scientist 'E' & Incharge)	Parivesh Bhawan Opp. VMC Ward Office No. 10, Subhanpura Vadodara-390 023	0265-2392603 0265-2392604 09427301794(Mob)	brnaidu.cpcb@nic.in westzonecpcb@yahoo.com
7.	Project Office Agra	Dr. V. K. Shukla (Scientist 'C' & Incharge)	4, Dholpur house, M.G Road, Agra - 282 001	0562-2421568 (D) 0562-2421548 09956009777(Mob)	cpcbagra@rediffmail.com poagra.cpcb@nic.in

2 Mbps Leased Line Modem – (G.703) : BSNL Exchange Side		
S.No	Specification Required	Compliance
1	It must operate over local loop with PCM Channels for long Distance as per TCPAM as per ITU-T G.991.2, G.SHDSL	
2	It must be approved by TEC/DOT for use on subscriber owned 2Mbps Leased Data Circuit with distance 5 Km.	
3	It must work in Full Duplex mode over Leased lines	
4	Data Rates must be nx64 Kbps, n=1 to 32 up to 2.048 Mbps	
5	Line protection circuits to provide cover from lightning and surges should be available	
6	Should be in Stand-alone.	
7	The range must be 2-Wire 6 Km @ 2Mbps, 7 Km @ 1 Mbps, 10 Km @ 64 Kbps over 0.5mm Cable.	
8	DTE interface must be RJ 45.	
9	Line coding HDB3 as per ITU-T G.703 standard; Range - 1.5 Km, with Compatibility of ITU-T G.703, G.704 & G.823 for Jitter. Framed/Unframed. CRC generation/detection and Clocking options such as Recovered from G.703 Signal, Internal.	
10	It must be compliant with V.54 diagnostics, which facilitate activation of local loop back, remote loop back etc, for Fault isolation and on line diagnostics.	
11	It must provide Front panel indicators such as like MR, DIG, TD, RD, ALM, ERR, TST, LNK	
12	Dual Power Supply 230VAC +/-10%, and 48VDC +/- 10%; less than 10W Max (2-wire).	
13.	Status monitoring/remote configuration through SNMP.	

2 Mbps Leased Line Modem – (V.35): CPCB Premises.

S.No	Specification Required	Compliance
1	It must be approved by TEC/DOT for use on subscriber owned 2Mbps Leased Data Circuit with Distance 5Km.	
2	It must work in Full Duplex mode over Leased lines	
3	Data Rates must be nx64 Kbps, n=1 to 36 up to 2.304 Mbps	
4	The Line Type must be 2-wire Unconditioned Twisted Copper Wire	
5	The range must be 2-Wire 6 Km @ 2Mbps, 7 Km @ 1 Mbps, 10 Km @ 64 Kbps on 0.5 mm cable	
6	DTE interface must be 34 Pin Female.	
7	Should be available in Stand-alone unit version.	
8	Line protection circuits to provide cover from lightning and surges should be available	
9	Line Code-Balanced Line Driver for Switching signals , with Compatibility of ITU-T V.35; V.36 or RS-530 (Option) , and Transmit Clock- External, Internal or Recovered from Line	
10	It must be comply with V.54 diagnostics which facilitate activation of local loop back, remote loop back etc. For fault isolation and on line diagnostics.	
11	It must provide Front panel indicators such as like MR, DIG, TD, RD, M/S, ALM, ERR, TP, TST, LNK.	
12	Dual Power Supply 230VAC +/-10%, and 48VDC +/- 10%; less than 10W Max (2-wire)	
13.	Status monitoring/remote configuration through SNMP.	