



**Bharat Heavy Electricals Limited**  
**Electronic Systems Division, Electronics City, Bangalore – 560 100.**

**Bharat Heavy Electricals Limited**

(A Govt. of India Undertaking)  
Electronics Systems Division, Plot No.98, Phase-I, Electronics city,  
Hosur Road, Bangalore-560 100

**NOTICE INVITING TENDER**

Tender Reference :	<b>BHE/ESD/DTG/RF/20-21/01 dated: 26.05.2020</b>
Name of the work	<b>20 MBPS RF Leased line between BHEL-ESD and BHEL-EDN</b>
Duration of Contract	<b>2 year</b>
Earnest Money Deposit(EMD)	<b>₹ 8800/-</b>
Last date and time for the receipt of completed tender	<b>16/06/2020 (Tuesday): 1100Hrs</b>
Date and time for tender opening :	<b>16/06/2020 (Tuesday): 1130Hrs</b>
Place of submission of completed tender:	To be dropped in the tender box kept at reception area in BHEL-ESD, Plot No.98, Electronics City Phase-I, Bangalore - 560100.
Submission of tender	Tender to be submitted in two parts in separate sealed covers, i.e. Part -I Technical-Cum-Commercial Bid, and Part-II Price Bid. E-mail Offer is also acceptable. Separate E-mail to be provided for Technical cum commercial bid and Price bid and can be sent to mail Id: <u>Rakeshkr@bhel.in</u> Offers can also be sent via courier.
Address	The tender must be addressed to AGM- (DTG,PPC,MM & Shipping) BHEL-Electronics Systems Division Plot No. 98, P.B. No. 10010 Electronic City Phase- I, Hosur Road, Bangalore -560100

This tender document contains the following:

- 1. General information & Scope of work -Page No. 2**
- 2. Technical specifications & Essential Criteria- Page No. 3 to 5**
- 3. Commercial terms and Conditions - Page No. 6 to 9**
- 4. Instructions & Guidelines to bidders - Page No. 10 to 12**
- 5. Form 1: to be filled by contractors - Page no. 13 to 14**
- 6. Form 2 : Price bid format – Page no. 15**
- 7. EFT form Enclosed – Page no.**

Note: The tenderer shall return the duly filled in Tender Documents after affixing signature and seal on all pages.

Issued by: *Rakesh Kumar*

Date: *26.05.2020*



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**1.0 General information & Scope of work**

**1.1 General Information**

BHEL ESD has an existing 5 MBPS OFC leased line & 5 MBPS RF line between its offices at BHEL, Electronics Division (EDN), Mysore road, Bangalore and BHEL Electronics Systems Division at Electronics City First phase, Bangalore. This tender is for the RF leased line linking up the two campuses by 20 MBPS dedicated bandwidth 1:1.

**1.2 Scope of the Contract**

The aim of the proposed network is to provide Fast-Ethernet connectivity between the two BHEL campuses **with last mile on RF** so that LAN users at either location can access each other seamlessly on an extended LAN.

The service is required for a period of 24 months.

The Ethernet connectivity required between the two locations is as detailed in the table below:

<b>Sl. No.</b>	<b>BHEL-EDN</b>	<b>BHEL-ESD</b>	<b>Link/Port capacity</b>	<b>Remarks</b>
1	BHEL Post Box No. 2606, Mysore Road, Bangalore 560026	BHEL, No.98, Hosur Main Road, Bangalore -560100	20 MBPS (1 : 1)	Delivery on Fast Ethernet – RF



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**2.0 Technical Specifications & Essential Criteria**

**2.1 Technical Specifications:**

Sl.No.	Specifications	Requirements	Acceptance by Vendor
1	Bandwidth	20 Mbps (1:1) <b>the last mile will be by RF</b>	
2	High uptime - network infrastructure uptime	>99.5 %	
3	Installation and commissioning	Within <b>4 weeks</b> from placement of work order.	
4	Equipment at customer premises	All equipment required for this connectivity will be provided by the service provider and installed at the BHEL locations and the same can be taken back on termination of the contract. (The contractor may kindly inspect the site before quoting.)	
5	Support: Service Window	The contractor must have a service centre at Bangalore working 24 x 7. Facility to log complaints should be possible and updates on usage and downtime must be provided periodically.	
6	Network Termination Interface	Standard 10/100BaseT	
7	Inspection of customer location and equipment available.	The vendor is requested to visit both the locations and ascertain the equipment and space before quoted.	
8	Existing Router at both the locations	Cisco router 2800 is available at both the locations and the same can be used and configured.	



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		Any additional router or equipment required must be included in the offer by the vendor. No additional equipment will be provided By BHEL.	
9	Ownership of Service Equipment	The ownership of the service equipment will be with the vendor and we shall return the same upon termination of contract.	
10	The network must be IPV6 ready.		
11	The bidder shall warrant that the offered wireless last-mile should support minimum 128bit encryption using AES and MAC Authentication to be enabled to prevent unauthorized access to the network		
12	The bidder must have a state-of-the-art Network Management Centre and Network Operation Centre (NOC), which should work proactively towards end-to-end network monitoring & management.		
13	High throughput	Should support up to 100 Mbps Full Duplex in MIMO operation	
14	The vendor to provide a list of hardware items that will be installed at the two locations.	To be provided	
15	Up gradation of the RF line	In case any additional facility is required on equipment requiring upgrade, the contractor Shall provide the same at mutually agreed terms.	



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**2.2 Essential Criteria (Mandatory)**

1. The last mile for the lease line connection must be RF for both the locations.
2. The Tenderer should have Class A or Class B ISP license From department of Telecommunications, India.
3. The Tenderer should have executed at least two leased lines projects in Bangalore city with the last mile on RF during the last three years, The bandwidth of the lines being above 2 Mbps. (Copy of work orders to be provided)
4. The Service Provider NOC (network operation centre) should possess ISO / ITIL / TL compliant certification.
5. The Bidder should be a Telecommunications/ Service provider with NLD/ILD licenses and should be capable of providing MPLS VPN through wireless links.
6. The bidder should have a licensed frequency certificate to deliver the Wireless last mile infrastructure.
7. Wireless Last-mile should not be sub contracted to other Service Providers. An undertaking to the same effect needs to be submitted by the bidder.
8. The Tenderer should have an established office set up in Bangalore with 24x7 support.
9. The above conditions (sl. No.1. to 8) of 2.2 must be fulfilled by the tenderer. Otherwise the tender will be summarily rejected.



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**3.0 Commercial Terms & Conditions**

**Main terms**

Sl.No.	Specifications	Requirements	Acceptance by Vendor
1	Price	Price quoted must be basic price and all the applicable taxes are to be clearly mentioned in the offer.	
2	Contract period	The contract is for a period of Two years.	
3	Price bid format	Price is to be quoted in the price bid format attached.	
4	Corrective Maintenance & downtime penalty	Corrective maintenance calls of any major breakdowns should be attended and rectified within 1 working day of the call being recorded. In case, the rectification is not possible within 1 day for reasons beyond the control of the service provider, BHEL reserves the right deduct the rental charges on pro-rata basis for the service.	
5.	Service window 24x7	The service provider will have a fault logging service which will operate 24x7.	
6	Submission of EMD	<ol style="list-style-type: none"><li>1. EMD of ₹ 8800/- in the form of:i)EFT credited in BHEL account(before tender opening) ii)Banker's Cheque/Pay order/Demand Draft, in favour of BHEL (along with offer)</li><li>2. EMD shall not carry any interest</li><li>3. EMD of successful tenderer will be retained as part of security deposit.</li></ol>	
7	Forfeiture of EMD	Refer clause 3.1	



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8.	Payment	Payment is composed of two components a) One Time charges and b) Annual Rental charges	
9.	One time charges: towards the equipment supplied and installation and commissioning	One time payment will be made on completion of installation and commissioning and certification of the same by the user department.	
10.	Rental charges	Will be paid Quarterly at the End of quarter on certification by DTG group of BHEL ESD. Payment will be made within 30 days from the date of the certified invoice.	
11.	Taxes and duties	All applicable taxes must be clearly stated in the offer in price bid.	
12.	All Payments will be made by EFT only.	EFT details as required by BHEL may be provided by the vendor along with offer in format as provided.	
13.	Submission of Invoices	Invoices must be submitted to the consignee/billing address provided below.	
14.	Consignee & Billing address	Mr.Ravindran K G, AGM- (DTG,PPC,MM & Shipping) BHEL-Electronics Systems Division Plot No. 98, P.B. No. 10010 Electronic City Phase- I, Hosur Road, Bangalore -560100	
15.	Submission of Security deposit.	Security deposit of 5% of the order value as per clause no. 3.2(c) on award of the contract is applicable.	
16.	Consignee contact nos.	Mr. Rakesh Kumar/ Mr. Ravindran K G Phone : 80-25146174/80-25146189 Mobile : 9535402132/9448461927	
17.	Validity of offer	3 months from the date of opening of technical bid	



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18.	Insurance	Insurance for the complete Systems provided by the contractor at his own risk and cost throughout the period of the contract. BHEL, under any circumstances, will not be responsible for any loss/damage/theft of any Systems/goods, due to any reasons, whatsoever.
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### **3.1 Forfeiture of EMD:**

EMD by the Tenderer will be forfeited as per NIT conditions, if:

- i) After opening the tender and within the offer validity period, the tenderer revokes his tender or makes any modification in his tender which is not acceptable to BHEL.
- ii) The Contractor fails to deposit the required Security deposit or commence the work Within the period as per LOI/ Contract.

EMD by the tenderer shall be withheld in case any action on the tenderer is envisaged under the provisions of extant “Guidelines on Suspension of business dealings with suppliers/ contractors” and forfeited/ released based on the action as determined under these guidelines.

### **3.2 Other Commercial Terms:**

- a) BHEL reserves the right of going for extension of this order for a further period of 1 year. The supplier shall keep the validity of offer open for this purpose.
- b) BHEL reserves the right to terminate the service if the service does not meet the bandwidth and uptime specifications by giving a notice period of one month for the same.

#### **c) Security Deposit :**

On award of contract, the successful Contractor should pay an amount of 5% of the contract value towards Security Deposit before commencement of the work.

Security Deposit may be furnished in any one of the following forms:

- a. Cash (as permissible under the Income Tax Act)
- b. Pay Order, Demand Draft in favour of BHEL
- c. Local cheques of Scheduled Banks, (subject to realization)



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- d. Securities available from post Officers such as National Savings Certificates, Kisan Vikas Patras etc.(Held in the name of contractor furnishing the security and duly endorsed /hypothecated/pledged, as applicable in favour of BHEL)
- e. Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- f. Fixed Deposit Receipt issued by scheduled Banks / Public Financial Institutions as defined in the Companies Act. The FDR should be in the name of the contractor, A/c BHEL, duly discharged on the back.
- g. Security Deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the security deposit should be deposited before start of the work and the balance 50% may be recovered from the running bills.

The Security Deposit shall not carry any interest.

Security Deposit will be refunded to the contractor on satisfactory completion of the contract on submitting all the required documents / Returns / Proof of compliance to all applicable statutes.



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**4.0 INSTRUCTIONS & GUIDELINES TO BIDDERS**

**4.1 TENDERER TO INFORM HIMSELF FULLY:**

The tenderer shall closely peruse all the clauses, specifications and requirements etc., indicated in the tender documents, before quoting. Should the tenderer have any doubt about the meaning of Any portion of the tender specifications or find discrepancies or omissions in the specifications or if The tender documents are found to be incomplete or require clarifications on any of the technical Aspects, scope of work etc., the tenderer shall at once contact the official inviting the tenders for Clarifications before submission of the tender.

Tenderers are advised to study all the tender documents carefully. Any submission of tender by the Tenderer shall be deemed to have been done after careful study and examination of the tender Documents and with the full understanding of the implications thereof.

**4.2 EXPECTATIONS FROM CONTRACTOR**

The contractor is required to give a total solution & services as per specifications enclosed. The full Working of entire system is the responsibility of the contractor. In case any extra item is required for complete functioning of the system, the same must be quoted.

**4.3 SUBMISSION & OPENING OF BIDS**

The offer shall be submitted in Two parts as follows in separate sealed envelopes.

**PART-I: EMD & TECHNO-COMMERCIAL BID**

This part shall consist of the following:

- a. EMD of ₹ 8800/-
- b. The tender document complete (pages 1 to 15) with all formats filled in all respects with signature on each page.
- c. Technical offer shall contain complete technical information like brochures, catalogues, etc.
- d. Un-priced copy of price bid as per enclosed format only. Un-priced price bid shall include applicable tax rates.

**4.4 PART-II : PRICE BID**

- a) Price bid containing PRICES only is to be submitted (as per the enclosed Price Bid format provided). Prices shall be quoted in Indian Rupees only. Vendor has to give details of Duties and Taxes.

Price Bid should not contain any technical details and/or Commercial Terms & Conditions as the same are supposed to be contained in PART-I only so that the same can be evaluated before opening of Price Bid(s).



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**4.5 MARKING ON ENVELOPE:** Part-I and Part-II offers shall be submitted in two separate envelopes with bidder's distinctive SEAL and super-scribed as follows.

**PART – I:**

- 1. TENDER ENQUIRY NO AND ITEM DESCRIPTION**
- 2. DUE DATE OF OPENING**
- 3."TECHNO.COMMERCIAL BID"**

**PART-II:**

- 1. TENDER ENQUIRY NO AND ITEM DESCRIPTION**
- 2. DUE DATE OF OPENING**
- 3. "PRICE BID"**

**4.6** Tenders should be sent to the address specified in the first page. The full name and address of the tenderer, the name of the work and date of opening-should be indicated on the cover.

**4.7** In case tenders submitted by post or courier should be posted with due consideration for any delay in delivery. Tenders submitted by post should be sent by "Registered Post with Acknowledgement Due".

**4.8 Late offer:** Offers received after due date and time will be treated as 'Late offer' and it will be rejected'

**4.9** In case of rejection due to (a) late offer (not considered by BHEL) or (b) commercial grounds or technical grounds the sealed' price bids will be returned back to respective Vendors after release of WO and receipt of order Acknowledgement from the successful bidder.

**4.10.** If in any case, the date of tender opening falls on holiday, the tender will be opened on the Next working day.

**4.11.** BHEL reserves the right to accept or reject the technical offer. Price bids of only technocommercially short listed vendors will be opened. The technical & commercial bid /Un-priced price bid should not include prices.

**4.12.** Tenderer shall not increase their quoted rates once the tenderer has submitted his quotation and during execution of the entire contract period in case his tender is accepted.

**4.13.** If after opening of tenders, a tenderer revokes his tender or increases his earlier quoted rates or after acceptance of his tender does not commence the work in accordance with the contract /order, the Earnest Money deposited by him will be forfeited and acceptance of his tender withdrawn. If only a part of the work included in the tender had been awarded to the tenderer, the amount of Earnest Money to be forfeited will be based on the value of the contract so awarded.

**4.14** Conditional and unsigned tenders. Tenders containing absurd rates and amounts, tenders Which are incomplete or otherwise considered defective, tenders which are not in Accordance with the tender conditions and tenders not submitted in the prescribed forms are liable to be rejected.

**4.15.** If the tenderer deliberately gives wrong information in his tender, BHEL reserve the right to reject such tender at any stage. Further the tender will be liable for any damage caused.

**4.16** Words imparting the singular number shall also be deemed to include the plural number

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And vice-versa where the context so requires.

**4.17** No correspondence shall be entertained from the bidders after the opening of Price Bid(s).

**4.18.** Unsolicited bids shall not be entertained. Unsolicited revised Price Bids also, shall not be Entertained at any stage of the tendering process and will lead to automatic Disqualification of the party's bid.

**4.19 RATES**: Rates to be quoted are net F.O.R. destination inclusive of freight, handling and packing charges, transit insurance, installation, regular insurance and on-site comprehensive maintenance including spares and deployment of service engineers during the entire contract period and shall remain FIRM without any variation till completion of the contract. However, the taxes and duties will be payable as per actuals.

**4.20 TENDER EVALUATION**: The determination of lowest bid will be based on cost to BHEL for the contract period.

**4.21 Order Acknowledgement**: Letter of acceptance of the Order / Contract is to be submitted within one week from the date of issue of order.

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**Part – 1**

**Information to be provided by the contractor**

**Techno-Commercial Bid**

1	Name of the Work:	<b>20 MBPS RF Leased line between BHEL-ESD and BHEL-EDN</b>	
2	Name of the Bidder :		
	a) Address for correspondence		
	b) Contact person with Telephone Nos. and email id.		
3.	Years of experience in ISP service		
4.	Scope of supply	Understood / Not Understood	
5.	<b>BHEL'S Payment Terms:</b>	Acceptable / Not Acceptable	
	a) One-time payment on completion of installation and commissioning  b)Rental charges at the end of each quarter	Acceptable / Not Acceptable	
6.	Technical bid with all pages signed and filled is submitted.	Enclosed / Not enclosed	
7	a) Whether EMD amount submitted along with Technical Bid	Yes/No	
	b) Demand Draft (Fill DD No. & Date)		
8. Type of Firm (please tick & fill the details)			
Sl.	Type	Income Tax PAN	
i)	Proprietary		
ii)	Partnership		
iii)	Company		
iv)	Others		



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9.	GST Registration No. (Copy to be enclosed):	Yes / No
10.	The Firm should have successfully completed two similar contracts of leased line with RF in last mile in Bangalore City. Details to be given below: Copy of orders to be attached.	
	1.  2.	
11.	List of hardware that will be installed by the vendor at the two locations.	Enclosed / Not enclosed

Note: - If any of the above mentioned criteria is not met the bid will be rejected.

**Declaration:**

I / We hereby declare that I / We have not been banned and de-listed by any Government Department / Financial Institution / Court.

Further declare that the information provided above is true and if found incorrect the tender will likely to be rejected at the discretion of BHEL.

Signature  
(Name & Address of the Tenderer  
With Official Seal)



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**(PART-II) PRICE BID – Format**

**Tender Ref. BHE/ESD/DTG/RF/20-21/01 dated: 26.05.2020**

**20 MBPS RF Leased line between BHEL-ESD and BHEL-EDN**

SL	Description	Unit Rate in Rs.	Qty.	Total Amount
1.	One time charges at each location		2 nos.	
	Applicable taxes: .....@ .....%			
	Total one time charges (A)			
2.	Annual recurring charges (B)		2 year	
	Applicable taxes: .....@ .....%			
	Total Rental charges for 2 year (B)			
	Grand Total Amount (A+B).			

Grand Total Amount in words

.....  
.....  
.....

Signature

(Name & Address of the Tenderer with Official Seal)

Place:

Date:





**Bank Certificate**

We certify that \_\_\_\_\_ has an Account No \_\_\_\_\_ with us and  
we confirm that the bank details given above are correct as per our records.

Date:

(.....)

Place:

Signature

Please return completed form along with a blank cancelled cheque or photocopy thereof to:

Bharath Heavy Electricals Ltd,

Attn:

Electronics Division, Mysore Road,

BANGALORE - 560 026

In case of any Querry, please call : concerned Purchase Executive