

IMPORTANT NOTE

BID DOCUMENT HAS BEEN DISPLAYED BELOW TO UNDERSTAND THE REQUIREMENT ONLY. PARTIES INTERESTED TO PARTICIPATE AGAINST THIS TENDER SHALL HAVE TO PURCHASE THE TENDER DOCUMENTS FROM ANY OF OIL'S DESIGNATED OFFICES MENTIONED IN THE TENDER NOTIFICATION GIVEN BELOW. PROOF OF PURCHASE OF TENDER DOCUMENT MUST BE SUBMITTED ALONGWITH THE OFFER, FAILING WHICH OFFERS WILL BE TREATED AS UNSOLICITED.



OIL INDIA LIMITED
(A Govt. of India Enterprise)
Udyan Vihar, Narengi, Guwahati,
Assam

Fax-91 0361 2643686
Email-oilmatpl@oilindia.in

OIL INDIA LIMITED invites sealed tenders for the following:

Tender No.	B. C. Date	Material Description
GOD8644P11/1L	02.09.2010	Last Mile Connectivity for extension of Communication facilities of OIL to IOCL locations of GSPL using Radio Communication System.

2.0 Bid documents (Non transferable) can be purchased from till one day prior to the respective B.C. Dates on payment of tender fee of Rs.1,000.00 (excepting for PSUs and SSI units registered for the item) each through Crossed Demand Draft in favour of M/s. Oil India Limited payable at the place of purchase of tender document from

- Head - Materials, Oil India Limited, P.O. Duliajan, Assam -786602
- Head -Calcutta Branch, Oil India Limited, 4,India Exchange Place, Kolkata - 700001
- Senior Adviser(Contract & Purchase), Oil India Limited, Plot No. 19, Sector- 16 A, NOIDA-201301
- Addl. Chief Materials Manager (Pipeline), Oil India Limited,PO: Udayan Vihar, Guwahati - 781171.

3.0 Detailed tender document will be available in OIL's website
www.oil-india.com

4.0 To be eligible for issue of tender documents, the applicant must meet the following qualifying criteria (documentary evidence to be provided) :

i. Successful execution of a single order of value not less than the amount shown below for supply of similar items during last five years:

Tender No.	Single Order Value in Lakhs (Rs.)
GOD8644P11/1L	16.70

ii. Annual turnover of the firm in any of the last three financial years or current financial year should be more than the amount as below :

Tender No.	Annual Turnover in Lakhs (Rs.)
GOD8644P11/1L	33.40

OIL INDIA LIMITED
(A Govt. of India Enterprise)
Udyan Vihar, Narengi, Guwahati,
Assam

Fax-91 0361 2643686
Email-oilmatpl@oilindia.in

Tender No. & Date : GOD8644P11/1L 08.07.2010

Tender Fee : INR 1,000.00
Bid Security Amount : INR 83,500.00

Bidding Type : Single Bid (Composite Bid)

Bid Closing On : 02.09.2010 at 13:00 hrs. (IST)
Bid Opening On : 02.09.2010 at 13:00 hrs. (IST)

Performance Guarantee : Applicable

OIL INDIA LIMITED invites Press tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
10 99067414	TELECOMMUNICATION EQUIPMENT: RADIO EQUIPMENT ALONG WITH ANTENNA AND ACCESSORIES Specification as per Annexure I	1	SET
	SURVEY FOR LINK FEASIBILITY		
10	SURVEY FOR LINK FEASIBILITY	4	AU
	INSTALLATION AND COMMISSIONING		
10	INSTALLATION AND COMMISSIONING	4	AU
	TRAINING		
10	TRAINING	8	AU
	AMC		
10	AMC OF TELECOMMUNICATION EQPT	2	AU

Standard Notes: Detailed Specification will be as per annexure I

1. To evaluate the inter-se ranking of the offers, Assam Entry Tax on purchase value will be loaded as per prevailing government of Assam Guidelines as applicable on bid closing date. Bidders may check this With the appropriate authority, while submitting their bids.

2. Bidder should quote transportation charges on actual separately if not included in basic price. Transportation charges has to be quoted for transportation by mode as below :-

i) For consignments weighing around 50 Kgs, Actual transportation charge to be quoted for transportation by courier service (Air/Road).

ii) For consignment weighing more than the weight mentioned in SI.No.(i), actual transportation cost shall be quoted for transportation by Road transport.

3. Bidders must quote the unit rates both in figures & words as per requirement in Clause 3.2(iii) of Annexure-II, failing which offers will be rejected as per Clause No.18.8 of General

Tender No. & Date : GOD8644P11/1L 08.07.2010

Terms & Conditions (Annexure-II)

4. Terms and conditions applicable to this tender is enclosed vide Annexure II to VI.

Special Notes : 1.0 VALIDITY : Offer must be valid for 120 days from the date of bid opening. Offer with inadequate validity will be rejected.

2.0 Payment : In the event of an order, 70% payment will be released against delivery of material. Remaining 30% will be paid after completion of installation and commissioning and training.

3.0 Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. The Performance Bank Guarantee must be valid for one year from the date of arrival of goods at site / successful commissioning of the equipment, where commissioning is involved or 18 months from the date of shipment whichever is earlier. Bidder must confirm the same in their bid. Offers not complying with this clause will be rejected.

4.0 For evaluation of bids, the cost material , Installation & commissioning, training , Survey For Radio Link & AMC for 2 years etc., as mentioned Section F(Annexure I)Under BID EVALUATION CRITERIA (BEC) will be considered.

(a) Installation / Commissioning charges should be quoted separately which shall be considered for evaluation of the offers. These charges should include amongst others to an fro fares, boarding / lodging and other expenses of the Commissioning Engineers during their stay at our Commissioning site in Assam & West Bengal. All Personal , Income and Service Tax etc. towards the services provided by the supplier shall be borne by the supplier.

(b) Training charges, if any, shall be quoted separately which shall be considered for evaluation of the offers. The to and fro fares, boarding/lodging and other enroute expenses of OIL's Inspection Engineers for carrying out inspection shall be borne OIL.

5.0 In the event of receipt of only a single offer against the tender within B.C. date, OIL reserves the right to extend the B.C. date as deemed fit by the Company. During the extended period, the bidders who have already submitted the bids on or before the original B.C. date, shall not be permitted to revise their quotation.

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

Annexure-I
To Tender No GOD8644P11/1L

CONTENTS

<u>SECTION</u>	<u>SUBJECT</u>	<u>NO. OF SHEETS</u>
A	SCOPE OF ENQUIRY	1
B	PROJECT INFORMATION	1
C	SCOPE OF SUPPLY	2
D-1	TECHNICAL SPECIFICATIONS	8
D-2	SPECIAL CONDITIONS OF THE CONTRACT	5
E-1	SCHEDULE OF PRICES	2
E-2	SCHEDULE OF DEVIATIONS FROM TECHNICAL SPECIFICATIONS	1
E-3	BIDDER'S EXPERIENCE	1
F	BID EVALUATION/ REJECTION CRITERIA	3

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION A
SH 1 OF 1

1.0 SCOPE OF ENQUIRY

- 1.1 This procurement specification covers design engineering, packing, supply, transportation from place of manufacture to site, complete installation, testing at site after installation, integration with the existing system, startup, commissioning and performance testing of the last mile connectivity for extension of communication facilities of Oil India Ltd.(OIL) to M/s Indian Oil Corporation Ltd. (IOCL) locations of Guwahati Siliguri Product Pipeline(GSPL) using Radio communication(ISM band)system for voice, data and fax facilities on turn key basis.
- 1.2 The tender document includes the detailed information of the project (Section B), Scope of Supply(Section C), Technical Specifications(Section D), other requisite formats (Section E) and Bid Rejection Criteria / Bid Evaluation Criteria (BEC / BRC) (Section F).
- 1.3 Bidders must take cognisance of all the sections of this document. Similarly bidders must submit their price bids and Summary of Prices as per the format given vide Section E1.

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION B
SH 1 OF 1

1.0 PROJECT INFORMATION - GENERAL

1.1 Project Title : Last Mile Connectivity for extension of Communication facilities of OIL to IOCL locations of GSPL using Radio Communication System.

1.2 Location : GUWAHATI & BONGAIGAON in Assam and SILIGURI and SONAPUR in West Bengal

2.0 Present Traffic Plan and other details :

1 E1 port(2MB, G703) will be extended from OIL's OFC backbone communication link to IOCL locations of GSPL. E1 traffic will have voice, SCADA data, Ethernet (SAP/Internet) data.

3.0 Site details for radio link in Assam and West Bengal

Hop No.	Name of the station	Latitude (N)	Longitude (E)	HASL (Mtr)	Tower Height (Mtr)	Aerial Distance (Km)
1	OIL, Noonmati	26°10'21"	91°50'18"	52.1	23	2.27
	OIL, BG Hills	26°10'23"	91°51'40"	420	90	
2	OIL, BG Hills	26°10'23"	91°51'40"	420	90	4.58
	IOCL, Noonmati	26°10'54"	91°48'49"	58	*	
3	OIL, Bongaigaon	26°29'17"	90°33'04"	58.5	60	3.76
	IOCL, Bongaigaon	26°30'49"	90°31'20"	77	**	
4	OIL, Sonapur	26°28'42"	88°17'46"	85.8	100	28.3
	IOCL, Siliguri	26°41'54"	88°26'18"	118	25	

* Note : At IOC, Noonmati, ODU with Antenna can be installed on the top of 2 storey building.

**Note: At IOC, Bongaigaon, there is no existing tower/high rise building. After link survey tower will be constructed by IOCL as per requisite height.

4.0 Other radio frequencies in use : There is already 2 pairs of 5.8 /2.4 GHz license free radio in operation at Guwahati, Bongaigaon and Siliguri

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION C
SH 1 OF 2

SCOPE OF SUPPLY,WORKS AND SERVICES

1.0 SYSTEM TO BE OFFERED

1.1 This procurement specification covers design engineering, packing, supply, transportation from place of manufacture to site, complete installation, testing at site after installation, integration with the existing system, startup, commissioning and performance testing of the last mile connectivity for extension of communication facilities of Oil India Ltd.(OIL) to M/s Indian Oil Corporation Ltd. (IOCL) locations of Guwahati Siliguri Product Pipeline(GSPL) using Radio communication(ISM band)system for voice, data and fax facilities on Turn Key basis

1.2 PROPOSED COMMUNICATION NETWORK

S/N	Details
1	18 MBPS (Minimum) Radio Equipment for 4 hops with spares 2.4 GHz Licence Free Band Including Indoor & Outdoor units, Antenna, Reflector, Power Supply, Antenna through line surge suppressor, Cables and accessories etc. (SECTION-D1 : CLAUSE 1)
2	Survey for link feasibility (SECTION-D1 : CLAUSE 2)
3	Installation, Testing and Commissioning of all the systems and sub-systems supplied as mentioned above as per details given in special conditions of the contract (SECTION-D2 : CLAUSE 1.9)
4	Training (SECTION-D2 : CLAUSE 1.14)
5	Comprehensive AMC (including spares and labours) for 02 years after expiry of warranty and extendable up to 10 years as per details given in special conditions of the contract (SECTION-D2 : : CLAUSE 1.11)

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION C
SH 2 OF 2

S/N

Details

6 **Vital spares** to be maintained at site

7 **Any other item** not specified above but required to meet the technical specifications for successful installation and commissioning of the entire system

8 **Any other works/service** not specified above but required for successful completion of the entire project

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION D-1
SH 1 OF 5

1.0 TECHNICAL SPECIFICATIONS OF RADIO EQUIPMENT

(Bidder to **write complied/not-complied** against each clause in the compliance statement)

- 1.1 The offered radio capacity shall be 18 MBPS Full Duplex net throughput and shall work in 2.4000 GHz to 2.4835 GHz license free ISM band only.
- 1.2 The architecture of the Radio equipment should be such that it must have a split configuration, with separate Indoor and Outdoor units.
- 1.3 The outdoor unit must be all-weather resistant.
- 1.4 The System must include at least **1 Ethernet port** and **1 E1 port**.
- 1.5 There should be minimum **Fade Margin** of **10 db** in each hop.
- 1.6 System must support **Orthogonal Frequency Division Multiplexing** (OFDM) in order to address **NLOS operation**.
- 1.7 System should support connection of **IP based** Telephone exchange for Voice, Data and Fax communication.
- 1.8 Channel Bandwidth must be 5/10/**20 MHz**.
- 1.9 The system should have the capability to have centralized, total control of the system configuration and monitoring of the system units using a GUI.
- 1.10 The EMS must support IN-BAND management of the Network Elements using **SNMP**.
- 1.11 The system should support **remote maintenance** of radio units with local and remote **loopback** testing facilities.

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION D-1
SH 2 OF 5

- 1.12 The system should have the capabilities of **locally** and **remotely upgrading** the Software without interrupting the normal system service.
- 1.13 Wireless system must be capable of easy and rapid deployment to avoid lengthy way-leave, access and legal agreements.
- 1.14 The system must support **VLAN ID** for management of Ethernet Interface.
- 1.15 The system must be equipped with **RF surge suppressors** in **2.4GHz** and **Ethernet surge protectors** to protect it from unavoidable **surge/lightning conditions**.
- 1.16 Bidder shall submit **link engineering details** with all calculations along with the bid in respect of desired parameters of specifications.
- 1.17 The equipment shall be installed with additional **lightning protection** arrangement.
- 1.18 All 4 (four) sites shall be equipped with **8 port Data switches** for system integration.
- 1.19 All the sites have **230V AC, 50 Hz** supply. There is also the provision of **-48V DC** supply at **5** sites. Hence equipment should have dual, appropriate interface for both **230V AC** and **-48V DC** supply inputs.

Salient features of the System

RADIO:

- Description : **2.4 GHz (ISM Licence Free Band) Operating Module**
- Capacity : **18 Mbps ,Full Duplex**
- Transmit Power : **Maximum 27 dBm**
- Frequency range : **2.400-2.4835 GHz(license free)**

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION D-1
SH 3 OF 5

- Modulation : **OFDM -BPSK/QPSK/16QAM/64QAM**
- Duplex Technology : **TDD**
- Range : **LoS Up to 56 Kms**
- Channel Bandwidth : **5/10/20 MHz**
- Received dynamic range: **>60 db**
- Encryption protocol : **AES 128**
- Error correction : **FEC, k = 1/2,2/3,3/4**
- Protocols Used : **SNMP & Telnet**
- Network Management : **SNMP based**, should support SNMP and HPOV with local and remote upgrade and loopback testing facilities
- IDU to ODU Interface: **Outdoor CAT5e Cable(with extra weather protection layer of HDPE)**
- Monitored Hot standby: **Should be supported.**

ETHERNET INTERFACE:

- Type : **10/100 Base T**, half/full Duplex interface with auto negotiation (**IEEE 802.3** compliant), RJ-45 connector
- Framing/Coding : **IEEE 802.3/U**
- Bridging : Self-learning up to **2047 MAC** addresses **IEEE 802.1Q**
- Data Latency : **< 3 ms (typical)**
- **VLAN ID** for Management of Ethernet Interface required.

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION D-1
SH 4 OF 5

E1 (TDM) INTERFACE:

- Standard Compliance : As per **ITU-T G.703, G.826**
- Line Code : **HDB3, 2.048 Mbps**
- Latency : from 5 - 20 ms (Should be user configurable)
- Impedance : **120Ω , Balanced**
- Jitter and wander : As per ITU-T G.823, G.824
- Ports required : 1 no , RJ45 connector
- Timing : Independent RX/Tx Timing

ANTENNA

- Type : External with reflector
2 ft, Semi-Grid parabolic
2.4 GHz band
- Gain : **24 dBi** and **31dBi**
- Beam width : **8°**
- Polarisation : **Linear**
- Antennal alignment : **Audible Buzzar**
tool

Power

- Dual Power option : **220-240 VAC** and **-48VDC**

Lightning Protection:

Transient Voltage Surge suppressor through line surge suppressor protection, Ethernet surge protection.

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION D-1
SH 5 OF 5

Other details

- ODU Operating Temperature : **-35 to 60°C;**
- ODU Operating Humidity : **100% Condensing**
- IDU Operating Temperature : **-5 to 45°C**
- IDU Operating Humidity : **90% Condensing**
- Wind Survival : **180 km/hr**
- Outdoor Enclosure : **IP-67 Compliant Metal**
Enclosure for all weather conditions.
- Connection Distance between out door unit and Indoor Unit : **up to 100 meters.**
- Regulatory Authority : **Wireless Planning Commission Certified.**
Certification details to be submitted.
- All necessary software and CDs to be provided.
- Technical manuals of all Equipments are to be provided along with the bid.

2.0 RADIO LINK SURVEY

Bidder to carry out link feasibility survey for the offered equipment and submit the link calculation details. Necessary GPS data and existing tower heights are given in Clause 3.0 of SECTION B

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION D-2
SH 1 OF 6

SPECIAL CONDITIONS OF THE CONTRACT

1.1 Standards of the works :

The works shall be in accordance with the contract. To the extent that the standard of the works has not been specified in the CONTRACT, the CONTRACTOR shall use good quality materials, techniques and standards and execute the contract with care, skill and diligence required in accordance with best practice.

1.2 SPARES

The CONTRACTOR shall maintain a supply of spares or replacement parts for a period of **10 (Ten) years** from the completion certificate date, such spares or replacement parts should be fully compatible with similar items previously supplied. The bidder has to submit a certificate from OEM confirming spares and technical support for at least 10 years.

1.3 SOFTWARE

Unless otherwise stated in the contract, the CONTRACTOR shall be responsible for providing in accordance with the contract all latest software and associated documentation necessary for the satisfactory operation of the equipment. Any software upgrades in future shall not necessitate replacement of hardware supplied under this contract.

1.4 QUALITY ASSURANCE

The BIDDER will submit a detailed procedure for Quality Assurance alongwith Bid. The Bid shall be considered incomplete in the absence of Quality Assurance procedure. The Quality Assurance procedure should indicate the organizational approach for Quality Control & Quality Assurance of the job.

1.5 DOCUMENTATION

CONTRACTOR shall furnish **7 (Seven) sets** each of Hard & Soft copies of the manuals for each equipment necessary to test, maintain and support the system including the software.

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION D-2
SH 2 OF 6

1.6 **TESTS**

The tests concerns all the equipment consisting the system including the equipment supplied by sub-contractors.

1.7 **FIELD ACCEPTANCE TEST**

Once the system is installed and operating, it shall be tested by the Vendor and witnessed by ENGINEER. The test shall be carried out as per the detailed test procedure supplied by Vendor and approved by the ENGINEER. Once the tests have been successfully performed, the temporary acceptance of the system will be given. Only then the system will be ready for **"Test Run"**.

1.8 **TEST RUN**

1.8.1 This test aims at keeping the complete system in operation for a **period of 10 days continuously**. In case of failure, the tests will be re-started till the system operates without failure for 10 days continuously. ENGINEER shall have the right to reject the complete system or part thereof in the event of the acceptance tests failing in two attempts. The "Test Run" shall be carried out after the commissioning of complete system.

1.8.2 Various observations and test results obtained during the various tests shall be documented and produced in the form of a report by the Vendor.

1.8.3 If malfunctions or failure of a unit or sub- system repeat, the test shall be terminated and vendor shall replace the necessary components and assemblies to correct the deficiencies. Thereafter, the test shall commence all over again from the start as mentioned above. If after this one replacement, the unit or sub-system still fails to meet the specifications, the Vendor shall replace the complete unit or sub-system with the one that meets the requirements, and restart the test all over again.

All cost for repair/replacement of defective component/system shall be debitable to vendor's account.

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION D-2
SH 3 OF 6

1.9 **INSTALLATION AND COMMISSIONING**

1.9.1 The whole project is required to be completed **on Turn-Key basis**. Accordingly, Bidder is understood to have assessed and quoted for all the items required for successful completion of the Project. It will be the responsibility of the Contractor to provide free of charge such items, not quoted in the bid, but otherwise required to have been provided at the time of installation for completion and successful commissioning of the project.

1.9.2 The Vendor shall offer the services of an installation Team which would install and commission the entire system

1.9.3 Vendor shall bring all installation aids and test equipment in order to carry out the job successfully. A list of the same is to be submitted to the ENGINEER for review.

1.10 **WARRANTY**

1.10.1 The CONTRACTOR shall warrant that all equipment are manufactured, with highest quality of materials. The equipment supplied and installed, software, documentation and workmanship are of the highest grade and consistent with the established and general standards for the application area and is in full conformity with the specifications given in the CONTRACT document. If any part or component or sub-system is found to be defective, the same shall be replaced free of all costs to the COMPANY. The decision of the COMPANY or ENGINEER in deciding defective component or part or sub-system shall be final.

1.10.2 The system shall be **guaranteed** to give the specified performance for a period of **twelve months** from the date of issue of COMPLETION CERTIFICATE by the COMPANY. In case any part or component or sub-system or equipment (Hardware & Software) is found to be defective and is replaced/ modified in accordance with clause 1.10.1 above, the item shall be guaranteed for a further period of twelve months. **All maintenance work, components, spare parts etc. during the warranty period shall be at the cost of CONTRACTOR.**

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION D-2

4 OF 6

1.10.3 Supplier shall have servicing facility either at Guwahati or Siliguri with **service engineer and rigger** during warranty period. The service engineer shall be qualified and fully conversant with the operation and maintenance aspect of the complete system. **Service engineer shall rectify any fault within 24 hours of reporting at any location.** Failure to rectify the fault within the stipulated period, will attract penalty as mentioned in penalty clause 1.12

1.11 **ANNUAL MAINTENANCE CONTRACT**

1.11.1 The Communication system being supplied, installed and commissioned is required to be maintained for Ten (10) years after warranty period. The system is required to be fully operational round the clock. The bidder must quote for providing maintenance service through **Comprehensive on-site Annual Maintenance Contract** for a period of two (2) years which shall be extendable upto a period of Ten years taking following points into consideration:

1.11.2 Supplier shall have servicing facility either at Guwahati or Siliguri with **service engineer and rigger** for the entire period including warranty period. The service engineer so posted shall be qualified and fully conversant with the operation and maintenance aspect of the complete system. **Service engineer shall rectify any fault within 24 hours of reporting.** Failure to rectify the fault within the stipulated period, will attract penalty as mentioned in penalty clause 1.12

1.11.3 The service engineer shall check the health of the system regularly. Any defect or breakdown observed or reported by OIL shall be attended immediately. Periodic preventive maintenance shall be done by the service engineer as per the maintenance schedule recommended by the manufacturer and report to be submitted to OIL.

1.11.4 Supplier shall maintain minimum vital spares at site to restore the system immediately in case of breakdown during warranty and AMC period. List of vital spares to be maintained at site should be provided.

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION D-2
5 OF 6

- 1.11.5 The charge quoted for **Annual Maintenance Contract (AMC)** shall be fixed and firm for following items:

S/N	Description	Units	Qty.
1	18 Mbps Radio Equipment including antenna, reflector, power supply, through line surge suppressor etc	Sets	8

- 1.11.6 **The AMC charge will be inclusive of all spares and labour charges required for on-site maintenance.**
- 1.11.7 The payment for AMC shall be released on quarterly basis after providing satisfactory service.
- 1.11.8 **The quoted 2 years AMC price for items mentioned in Clause 1.11.5 shall be considered for evaluation of bids.**

1.12 **Penalty clause:**

- 1.12.1 In case you fail to repair or replace a defective part(s) under warranty services mentioned in warranty clause, within 24 hours, from the time of reporting the breakdown, a penalty @ Rs. 1000/- per day, will be levied. If for any reason, the bidder fails to provide services within seven successive days from the date of reporting, the period of warranty or AMC will be extended by that number(s) of days, at no extra cost, in addition to the above penalty, subject to a maximum of 7.5% of the total order value.
- 1.12.2 The penalty amount will be realised by invoking the Performance Bank guarantee for the amount or from any payment due to successful bidder as deemed fit.
- 1.12.3 The defective parts under warranty should be first repaired / replaced and thereafter the defective items can be taken out of OIL's premises. Failure to repair or replace a defective part(s) under warranty within the stipulated period will attract penalty as mentioned in clause 1.12.1.

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION D-2

6 OF 6

1.13 DELIVERY SCHEDULE

Time is the essence of this project. The project is requires to be completed **within 4 (Four) months** from date of issue of Purchase Order / Letter of Intent. Bidders are requested to take not of the same while quoting

1.14 TRAINING

Basic training to Company's personnel to be provided by the contractor on Installation, Operation and Maintenance of the system supplied at OEM's manufacturing premises. Bidder should indicate the venue and duration for such training.

1.15 BIDDER TO OBTAIN OWN INFORMATION

1.15.1 BIDDERS are advised to visit the site, prior to submission of BIDS to acquaint themselves with the site conditions, carry out link feasibility study, availability of space at various locations of existing Tower and proposed installations, availability of facilities etc.

1.15.2 During such visit, BIDDERS shall interact with the user department and obtain information regarding existing equipment and exact requirement of proposed system.

1.15.3 After the visit, it will be understood that the BIDDERS have known all the requirements of this Project which will facilitate them to quote for all the items.

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION E-1
SH 1 OF 2

1.0 SCHEDULE OF PRICES

All the quoted prices shall be firm till the completion of said works.

SL NO	PARTICULARS	QTY	UNIT	UNIT PRICE		Appli cable Taxes	TOTAL PRICE
				(In figure)	(In words)		
1	TELECOMMUNICATIO EQUIPMENT						
1a	OUTDOOR UNITS FOR EXTERNAL ANTENNA FOR 2.4 GHZ LICENCE FREE RADIO	16	NO.				
1b	INDOOR UNITS FOR 2.4 GHZ LICENCE FREE RADIO WITH 1XE1, ETHERNET PORT ALONG WITH POWER CABLES/ CONNECTORS	16	NO.				
1c	24 dbi SEMI PARABOLIC GRID ANTENNA IN 2.4 GHZ FREQ. BAND	8	NO.				
1d	31 dbi SEMI PARABOLIC GRID ANTENNA IN 2.4 GHZ FREQ. BAND	3	NO.				
1e	OUTDOOR TYPE STP CAT-6 CABLE WITH HDPE COVER (100 MTR. COIL)	10	COIL				
1f	WEATHERPROOFING KIT, CABLE TIE, RJ45 CONNECTORS, ROSSETTE BOX ETC CONNECTORS, ACCESSORIES	11	SET				
1g	ETHERNET SURGE PROTECTOR	12	NO.				
1h	RF SURGE PROTECTOR	12	NO.				

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION E-1
SH 2 OF 2

SL NO	PARTICULARS	QTY	UNIT	UNIT PRICE		Appli cable Taxes	TOTAL PRICE
				(In figure)	(In words)		
1i	ANY OTHER ITEM NOT SPECIFIED ABOVE BUT REQUIRED TO MEET THE TECHNICAL SPECIFICATIONS FOR SUCCESSFUL INSTALLATION AND COMMISSIONING OF THE ENTIRE SYSTEM	AS REQUIRED					
2	SURVEY FOR RADIO LINK FEASIBILITY	4	NO.				
3	INSTALLATION, TESTING AND COMMISSIONING OF EACH LINK TO MAKE THE ENTIRE NETWORK FULLY OPERATIONAL	4	NO.				
4	TRAINING	8	MAN WEEK				
5	COMPREHENSIVE ANNUAL MAINTENANCE CHARGES (AMC) FOR 2 YEARS (EXTENDABLE UPTO 10 YEARS) AFTER EXPIRY OF WARRANTY FOR THE ITEMS LISTED IN CLAUSE 1.11.5	2	YEAR				
TOTAL PRICE							

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION E-2
SH 1 OF 1

1.0 SCHEDULE OF DEVIATIONS FROM TECHNICAL SPECIFICATION

All the deviations from the technical specifications shall be filled-in by the BIDDER clause by clause in this schedule.

<u>SECTION</u>	<u>SPECIFICATION NO.</u>	<u>CLAUSE NO.</u>	<u>DEVIATION</u>
----------------	--------------------------	-------------------	------------------

The BIDDER hereby certifies that the above mentioned are the only deviations from the client's Technical specifications for this enquiry. The BIDDER further confirms that in the event of any other data and information presented in the BIDDER'S proposal and accompanying documents including drawings, catalogues, etc., are at variance with the specific requirements laid out in the Client's technical specifications, then the latter shall govern and will be binding on the BIDDER for the quoted price.

SIGNATURE: -----

DESIGNATION: -----

NAME OF BIDDER: -----

SEAL OF BIDDER

DATE: -----

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION E-3
SH 1 OF 1

1.0 BIDDER'S EXPERIENCE

The BIDDER shall furnish here a list of similar jobs executed by him to whom a reference may be made in case OIL considers such a reference necessary.

SL NO	NAME AND DESCRIPTION OF WORK	VALUE OF WORK	PERIOD OF EXECUTION AND DATE	CLIENT	PERSONS TO WHOM REFERENCE MAY BE MADE

SIGNATURE: -----

DESIGNATION: -----

NAME OF BIDDER: -----

SEAL OF BIDDER

DATE: -----

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION F
SH 1 OF 3

BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC)

(I) BID REJECTION CRITERIA (BRC)

The bids must conform to the specifications and terms and conditions given in the enquiry. **Technical brochures** of the offered radio equipment to be submitted. Bids shall be rejected in case the equipment offered do not conform to the required parameters stipulated in the technical specifications. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements shall have to be particularly met by the bidders, without which the offer will be considered as non-responsive and rejected:

(A) TECHNICAL :

- 1.1 BIDDER has to be the **Original Equipment Manufacturer (OEM)** or **authorised dealer** of the offered equipment or **certified authorised representative** of the offered Radio equipment. In case the bidder is a dealer or certified authorized representative, authorization certificate from the OEM has to be submitted for the tender to ensure technical and maintenance support for future.
- 1.2 Bidder must have successfully supplied, installed and commissioned **at least 3 (Three) nos. of offered brand of IP radio** link during last three years preceding the bid closing date.
- 1.3 Bidder must have maintenance **support base at Guwahati or Siliguri**. In case the bidder is a certified authorized representative, the bidder has to submit a certificate from OEM confirming spares and technical support for at least 10 years.
- 1.4 BIDDER must submit documentary evidence in the form of copy of Purchase Orders, job completion certificates issued by the clients supporting the experience mentioned in Para 1.2 and 1.3 above.
- 1.5 Bidder has to quote **firm comprehensive AMC rates** as asked for in the SCHEDULE OF PRICES (E-1).
- 1.6 Non-submission of proofs, certificates, relevant brochures etc. shall be treated as non-compliance. If

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION F
SH 2 OF 3

- 1.7 Any information provided by bidder is found to be incorrect, the bid shall be rejected.
- 1.8 The bid shall be in accordance with the specification and shall be complete in all respects. The bidder shall clearly indicate in his offer the list of deviations on a separate sheet (refer section E-2) even though these may be mentioned somewhere else in the quotation.

(B) COMMERCIAL :

As given in **Annexure-II to Annexure-VI.**

(II) BID EVALUATION CRITERIA (BEC) :

The bids conforming to the specifications, terms and conditions stipulated in the enquiry and considered to be responsive after subjecting to the Bid Rejection Criteria will be considered for further evaluation as per the Bid Evaluation Criteria given below :

(C) TECHNICAL :

All materials as indicated in the indent should be offered. If any of the items not offered by the bidder, the offer will not be considered for evaluation.

- (D) COMMERCIAL :** The bids conforming to the specifications, terms and conditions stipulated in the enquiry and considered to be responsive after subjecting to the Bid Rejection Criteria will be considered for further evaluation as per the Commercial Bid Format detailed below & comparison will be done on Total value (O).

- (A) Total Material Cost (item no 1a -1i of Section E1)
- (B) Packing and Forwarding Charges, if any
- (C) Total Ex-works value, (A+B) above
- (D) Excise Duty , if any
- (E) Sales Tax as applicable
- (F) FOR Manufacturing station Value,(C+D+E) above
- (G) Transportation charges to Narangi(as quoted)
- (H) Insurance charges as applicable
- (I) Octroi, if any
- (J) FOR Destination value, (F + G + H +I) above
- (K) Survey For Radio Link with service tax, if any
- (L) Installation / Commissioning Charges with Service tax , if any
- (M) Training charges, with Service tax , if any
- (N) AMC Charges with Service tax ,if any (For 2 Years)
- (O) Total value, (J + K + L + M + N) above**

**LAST MILE CONNECTIVITY FOR EXTENSION OF COMMUNICATION
FACILITIES OF OIL TO IOCL LOCATIONS OF GSPL**

SECTION F
SH 3 OF 3

Rest as given in **Annexure-II** to **Annexure-VI**.

NOTE : If any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BEC / BRC) contradict the Clauses of the tender elsewhere, those in the BEC / BRC shall prevail