



Bharat Sanchar Nigam Limited
(A Govt. of India Enterprise)

**OFFICE OF THE CGMT, BSNL,
RAJASTHAN, JAIPUR**

e-Tender Document

**OFC WORK FOR BOP/BIP PROJECT IN JAISALMER OPERATION AREA
(OA) OF JODHPUR BA**

Tender No.: RJCO-23/11(11)/13/2024-TX AND MM

Estimated cost of the tender:- 1,11,15,305/-

EMD:- Rs. 2,22,306/-

Cost of the tender form:- Rs. 2,360/-

JODHPUR BUSINESS AREA

**AGM MM
O/o CGMT, JAIPUR**

BID DOCUMENT

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SECTION-I

Bharat Sanchar Nigam Limited
(A Govt. of India Enterprise)
O/o Chief General Manager Telecom, Rajasthan, Jaipur

Notice Inviting Tender

NIT No.: RJCO-23/11(11)/13/2024-TX AND MM

Dated: 27.09.2024

Digitally sealed online tenders [E-tenders (Digitally Signed)], on rupee payment basis are invited by CGMT, BSNL, Rajasthan, Jaipur in Single Stage Bidding and Two stage Opening using two Electronic Envelopes [Techno-Commercial (Qualifying Bid) & Financial Bid] for and on behalf of BSNL from the experienced contractors, for the following works:

- Name of work:** Optical Fiber Cable Construction/OFC laying under BOP/BIP Project from Bachiya - THOROI TO LANGTALA (35 BN) of Jaisalmer OA of Jodhpur BA.
- Scope and Jurisdiction of Work:** The scope and particulars of work put to tender are given in the Table below-

Sl No	Section No	Name of the Route/Area	Approx. Route Length in Kms	Estimated cost of works (in Rs.) (inclusive GST @ 18%)	Price of Bid Document including GST (in Rs)	Bid Security/ EMD (in Rs) 2%
1.	Bachiya - THOROI TO LANGTALA (35 BN) of Jaisalmer OA of Jodhpur BA	Jaisalmer OA of Jodhpur BA	90 KM	1,11,15,305/-	2,360/-	2,22,306/-

Note-1: “The quantities stipulated in the tender are estimated and the BSNL reserves the right to vary the value of works to the extent of -50% to +50% of contract value (quantity wise as well as total work wise) during contract period at the same rates and terms & conditions with prior approval of the of the Tender Approving Authority (CGMT, BSNL, Rajasthan).

Note-2: There is no restriction on the number of tenders a bidder can participate. Bidders who have been rescinded /debarred by Tendering authority/Higher BSNL Unit as the case may be including for reasons for failing to sign necessary agreement with the concerned Tendering authority in stipulated time on earlier occasions, will not be eligible to participate in the tender for the same work.

Note-3: For participating in e-Tendering process bidder shall access e-Bid document uploaded on the e tender portal and pay requisite tender processing fee as defined for the tender by e-tender service provider.

Note-4: 25 % of the Estimated Quantity/requirement in this tender Enquiry is earmarked for procurement from the eligible Micro & Small Enterprises (MSEs). However, in case eligible Micro & Small Enterprises (MSEs) bidder(s) are not available then this quantity would be de-reserved & procured from participating bidders.

- Note-5: Guidelines on Public Procurement (Preference to Make in India), Order 2017 as amended on 16/09/2020 and thereafter time to time, shall be applicable for this procurement tender.
- Note-6: Kindly refer DPE Letter enclosing the guidelines as contained in OM Dated 18.05.2023 bearing No. F.1/4/2021-PPD issued by the Department of Expenditure (DoE), Ministry of Finance on the applicability of PPP-MSE Order and PPP-MII Order in various scenarios, involving simultaneous purchase preference to MSEs and Class-I Local suppliers under PPP-MSE Order and PPP-MII Order, shall be applicable for this tender
- Note-7: The bidders participating in the said tender, should ensure the compliance of the order issued vide Order no. F.7/10/2021-PPD (1) Dated 23.02.2023 by Procurement Policy Division, Department of Expenditure, Ministry of Finance, Government of India, and its subsequent amendments/ Clarifications. (please refer <https://www.doe.gov.in/> for further details). An Certificate/Undertaking in the format given at **Annexure-D** on the Company's Letter head, shall be submitted in Original, along with the Bid documents (Please refer **Appendix** to this section).
- Note-8: The successful bidders shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. (pl refer Note 7)
- Note-9: If the certificates given by Bidder in the tender documents regarding their compliance with order stated in Note 7 & Note 8 is found to be false at any later stage, this would be ground for debarment and further legal action in accordance with law.
- Note-10: Before placement of Work Order on the bidder, the documents submitted by the bidder against eligibility criteria (Clause 3 below) will be verified by BSNL. For this purpose, the bidders shall be required to produce original documents for verification. The PO/work order will be placed on the vendor only after successful verification of required documents, apart from fulfillment of other conditions of APO/AWO.

3. **Eligibility Criteria:** For participating in the tender, the tenderer should meet the following eligibility criteria:

(i) The tenderer who possess experience of having successfully completed the **Optical Fiber Cable Construction works** in BSNL/MTNL/TCIL/ITI/Rites/Hindustan Cables Limited (HCL)/ PGCIL/ Rail Tel/ any other Govt. (Central/ State) undertaking/licensed private telecom service provider having mandate to carry out OFC construction work or the PSUs directly themselves and who also have received the payment for such completed works to the extent as mentioned below, are eligible to participate in the tender:

a) For an amount equal to at least 90% of estimated cost of work put to tender during last 5 Financial years plus the subsequent period ending the month preceding the one in which NIT is issued.

OR

b) For an amount equal to at least 120% of estimated cost of work put to tender during last 7 Financial years plus the subsequent period ending the month preceding the one in which NIT is issued.

(ii) The tenderer whose near relative(s) is/are employed in BSNL, is not eligible to participate in the tender, as per limitations mentioned in Annexure-A.

(iii) Contractor should have the valid EPF registration certificate on the date of issue of NIT.

(iv) Contractor should have the valid ESI registration certificate.

(v) Contractor should have the valid GSTIN registration certificate.

(vi) The bidder should have Valid PAN No.

(vii) A self- declaration along with the evidence that the bidder is not black listed by GST/BSNL authorities and MTNL/TCIL/ITI/RITES/HCL/PGCIL/RailTel/ any other Govt.(Central/State) undertaking/ licensed private telecom service provider as the case may be.

viii) In case of multiple GST numbers, all the numbers to be provided as Annexure

ix) In the case of MSE (Micro and small enterprises) units the bidder should declare UAM number (Udyog Aadhar Memorandum) on CPPP portal. The bidders who fail to submit UAM number shall not be able to avail the benefits (exemption from tender fee and EMD) available to MSEs as contained in Public procurement policy for MSEs order, 2012 issued by MSME. The undertaking regarding submission of UAM number on CPPP portal is to be uploaded online. The eligible Micro & Small Enterprises (MSEs) shall be given the preferences as detailed in tender.

Note 1: The experience of having successful completion of OF cable construction works is to be reckoned in terms of payment received for such works during the above said periods.

Note 2: The Experience should be of Optical Fiber Cable construction / Rehabilitation/OFC Patch work only and does not include any other work like Polelessf/Up-gradation/Maintenance works of OFC/External Plant/ UG Cable (Copper) etc.

Note 3: The experience certificate for carrying out the works and amounts received should be in the prescribed pro-forma and the certificate should be under the signature of officer responsible for maintaining the contractor's ledger e.g. Asst.GM/AO (Cash)/DDO or equivalent officer of the concerned PSU i.e. BSNL/ MTNL/ TCIL/ ITI/ Rites/ HCL/ PGCIL/ Rail Tel/ any other Govt. (Central/ State) undertaking/CTO (Chief Technical Officer) of Circle/State/LSA in case of licensed private telecom service provider as the case may be.

Note 4: In case, supplier gets black-listed during the tenure of BSNL contract, then BSNL has the right to recover the Input Credit Loss suffered by it due to any default by the vendor.

Note 5:Of late, big Govt. contracts are being carried out by the Public Sector Undertakings mentioned herein through a chain of contractors. In such case, the experience certificate, if issued, in favor of a contractor, in the chain, by such PSUs in the prescribed format shall be acceptable.

4. **Period of contract:** The period of this contract will be **one year** from the date of agreement. However, the BSNL reserves the right to extend the contract further, in terms of **six months or less, up to one year** on the same rates, terms & conditions, which shall be binding on the contractor with the permission of CGMT, BSNL, Rajasthan, if required.

5. Date of sale of tender document, Last date of submission of bid, Date of opening of Bids:

Availability of tender Document Online on e-tendering portal	Deadline for Submission of e-Bids Online on e-tendering E tender portal	Date of Opening of Bids Online	
		Qualifying Bid	Financial Bid
From 12:00 hrs of 27.09.2024 to 18.10.2024 up to 12:00 hrs	Upto 12:00 hrs of 18.10.2024	At 12:30 hrs of 19.10.2024	To be notified later

Note: The Price of bid document along with GST shall not be refundable.

Offline documents:-

a) Tender Fee & EMD, if applicable, is required to be submitted by the bidder preferably through online payment mode as per the Bank/Beneficiary Details provided in the DNIT/Tender Enquiry document. In case of MSE (Micro & Small Enterprise) bidder, valid

MSE Certificate /Udyam Registration certificate, broadly covering the tendered equipment/ services, for claiming exemption of Tender Fee / EMD shall be required to be submitted. However, scanned copies of the following documents (which ever applicable):

- i. Bank Transaction details with UTR Number towards the successful e-payment for Tender Fee/ EMD
- ii. DD/Banker Cheque or Bank Guarantee/Insurance Surety Bond issued by a Nationalized /Scheduled bank/ Insurance company (if opted for EMD)
- iii. Valid MSE Certificate /Udyam Registration certificate(for Micro & Small Enterprise claiming exemptions from Tender Fee/ EMD) are to be mandatorily uploaded by the bidder in their online Technical bid part (1st electronic Envelope i.e. Technical Envelope) on e-tender portal failing which the tender bid shall be archived unopened / rejected on e-tender portal at bid opening stage. In case the ownership of such MSE Entrepreneurs happens to be from SC/ST category, proof in this regard also need to be submitted.

Originals of bank instruments such as DD or EMBG towards Tender Fee, EMD/ Bid Security respectively (if not submitted through e-payment mode), shall be submitted by bidder in a Sealed Envelope to “AGM(MM), O/o CGMT, BSNL, Sardar Patel Marg, C-Scheme, Jaipur (Rajasthan)-302008 on any date before or within 5 days of bid submission end date failing which the tender bid (if already opened on basis of scanned copies uploaded in 1st electronic Envelope i.e. Technical Envelope, shall be rejected.

(b) During tender process, BSNL’s tender inviting authority may require the bidder to produce original copy of any document such as Power of Attorney, Integrity Pact, Bid Form, security agreement etc., submitted as scanned copy, in Technical bid part on e-tender portal (1st electronic Envelope), which the bidder will have to comply with.

6. If the date of opening of the bids happens to be holiday, the tenders will be opened on the next working day at the same time and the same venue.
7. The tender is invited through **e-tendering process** through the e-tender portal (<https://etenders.gov.in/>). Kindly refer Section-VI of Tender document for further instructions on e-tendering. Prospective bidders should get their registration done well in time on the e-tender portal and obtain the Digital Signature Certificate (DSC) from authorized CA, which is essential for participating in the tendering process. This link can also be visited using BSNL website (by clicking the link for e-tendering on the home page).
8. Tender will not be accepted/received on the e-tendering portal after due date and time. The officer in charge BSNL reserves the right to reject any or all tenders without assigning any reason whatsoever.
9. As the tender is invited through e-tendering process, physical copy of the tender document would not be available for sale. The bidder needs to download the tender document using the link as mentioned above.
10. All the documents in Qualifying Bid –Part-A and Financial bid-Part B are to be uploaded in the respective electronic envelopes/parts on e-tender portal including proof of deposit of cost towards e-payment (RTGS/NEFT)/DD/Banker’s Cheque/ towards cost of tender and e-payment (RTGS/NEFT)/ DD/Banker’s Cheque/BG/Insurance surety bond towards EMD. For online payment mode Bank/beneficiaries details are as given below:

SN	Information Required	Mandatory details
1	Name (as per bank account)	ACCOUNTS OFFICER (CASH) O/o CGMT, BSNL, Jaipur
2	Bank Account Number	83001010017565
3	Name of Bank	Canara Bank
4	Branch Address:	M I Road (Main), Jaipur
5	IFSC Code	CNRB0018300

11. **Last date and time of submission of tender document:**
(i) **Date & Time of submission of Tender bids online on or before 18.10.2024 up to 12:00 hrs).**
(ii) **Envelope containing offline document should be submitted as per NIT.**
(iii) **Date and time of opening of Tender: 19.10.2024 at 12:30 hrs.**
12. The units registered under single point registration scheme of NSIC/MSE units for OF Cable laying works are exempted from depositing the price of tender document and from payment of earnest money deposit (EMD). Such bidder shall have to upload the document in proof of registration of valid NSIC/MSE for carrying out OFC work along with bid document.
13. The successful bidder including NSIC/MSE bidder shall submit an equivalent to 5% of the tender approved value in the form of Performance Bank Guarantee (PBG). The bidder will also submit material security (BG) as per letter of intent.
14. If a vendor registered with body specified by Ministry of Micro, small and medium enterprise claiming concessional benefits (such as exemption from Tender Fee and EMD) is awarded work by BSNL and subsequently fails to obey any of the contractual obligation, he may be debarred from any further work /contract by BSNL for one year from the date of issue of such order and MSME authority issuing the certificate shall also be informed for taking suitable action.

AGM (MM)
O/o CGMT Jaipur,
Sardar Patel Marg, C-scheme,
Jaipur-302008

**Appendix to NIT in pursuant to Restrictions under Rule 144(xi) of the
General Financial Rules (GFRs), 2017.**

(i) Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. *Further, any bidder (including bidder from India) having specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India, shall also require to be registered with the same competent authority. (Please refer to Order no. F.7/10/2021-PPD (1) Dated 23.02.2023 of Procurement Policy Division, Department of Expenditure, Ministry of Finance, Government of India).*

(ii) "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated herein before, including any agency branch or office controlled by such person, participating in a procurement process.

(iii) "Bidder (or entity) from a country which shares a land border with India" for the purpose of this Order means –

- a) An entity incorporated, established or registered in such a country; or
- b) A subsidiary of an entity incorporated, established or registered in such a Country; or
- c) An entity substantially controlled through entities incorporated, established or registered in such a country; or d) An entity whose beneficial owner is situated in such a country; or
- e) An Indian (or other) agent of such an entity; or
- f) A natural person who is a citizen of such a country; or
- g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

(iv) The beneficial owner for the purpose of (iii) above will be as under:

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation:-

- a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company;
 - b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any

other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

(v) An Agent is a person, employed to do any act for another, or to represent another in dealings with third person.

(vi) The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

(vii) The registration shall be valid at the time of submission of bid and at the time of acceptance of bid.

(viii) If the bidder was validly registered at the time of acceptance/ placement of order, registration shall not be a relevant consideration during contract execution.

(ix) Model Certificate for Tenders:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I Certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered". **[Where applicable, evidence of valid registration by the Competent Authority shall be attached]**

(x) Model Certificate for Tenders for Works involving possibility of sub-contracting:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I Certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered". **[Where applicable, evidence of valid registration by the Competent Authority shall be attached]**

(xi) Model additional Certificate by Bidders in the cases of specified ToT:

"I have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. I certify that this bidder does not have any ToT arrangement requiring registration with the competent authority."

OR

"I have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. I certify that this bidder has valid registration to participate in this procurement."

----- END OF SECTION-I -----

SECTION II

BID FORM

NIT No.: RJCO-23/11(11)/13/2024-TX AND MM

Dated 27.09.2024

To

The CGMT
BSNL, Rajasthan
Jaipur

Dear Sir,

Having examined the terms & conditions of bid document and the specifications including Addendum/Corrigendum (if any), the receipt of which is hereby duly acknowledged, we, the undersigned, hereby submit our offer to execute the **Optical Fiber Cable Construction/OFC laying under BOP/BIP Project from Bachiya - THOROI TO LANGTALA (35 BN) of Jaisalmer OA of Jodhpur BA** stipulated against this NIT in conformity with said drawings, terms & conditions of contract and specifications.

We undertake, if our Bid is accepted, we will execute the work in accordance with specifications, time limits & terms and conditions stipulated in the tender document.

If our Bid is accepted, we shall submit the securities as per the conditions mentioned in the contract.

We agree to abide by this Bid for a period of **180 days** from the date fixed for Qualifying Bid opening and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

Until a formal Agreement is prepared and executed, this Bid together with your written acceptance thereof in your notification of award shall constitute a binding contract between us.

Bid submitted by us is in full compliance of the requirements of e-tendering.

Dated this day of (the year)

Signature of Authorized Signatory

.....

In capacity of

.....

Duly authorized to sign the bid for and on behalf of

Witness

Address

Signature

----- **END OF SECTION-II** -----

SECTION III
TENDERER'S PROFILE

General:

1. Name of the tenderer / firm_____
2. Name of the person submitting the tender whose photograph is affixed and who possesses the Digital Signature Certificate (DSC).
 - (a) Shri/Smt_____
 - (b) DSC Issuing Agency.....

Paste Color Passport size photograph of the tenderer / authorized signatory holding power of Attorney and having Digital Signature Certificate. Photograph should be self-attested
--

(In case of Proprietary / Partnership firms/Company, the tender has to be digitally signed by Proprietor /Partner(s)/authorized signatory only, as the case may be)

3. Address of the firm
.....
.....

4. Correspondence Address
.....
.....
.....

5. Tel.no. (with STD code) (O)..... (Fax).....(R).....

6. Mobile No: ----- email-id:-----
(Note: These contact details shall be used to communicate with the tenderer / contractor and any communication sent there on shall be taken as proper communications under this contract)

7. Registration & incorporation particulars of the firm(Tick as applicable):

I. Proprietorship (ii) Partnership (iii) LLP (iv) Private Limited (v) Public Limited

(Please attach attested copies of documents of registration/incorporation of your firm with the competent authority as required by business law)

8. Name of Proprietor/ Partners/ Directors
.....
.....

9. Tenderer's Bank Details:

- a. Name of Bank.....
- b. Name of Branch.....City.....
- c. Branch Code.....
- d. IFSC Code.....

- 10. Permanent Income Tax Account Number (PAN),
Income Tax circle.....
- 11. EPF registration number.
- 12. ESI registration number.....
- 13. Goods and Service Tax (GSTIN) registration No.....
- 14. Whether Micro or Small Enterprises (MSEs)? (Yes/No):.....
If Yes, the purpose of Business for which registered.
Validity: from..... to.....
Monetary Limit.....
Type of Work

15. Infrastructural capabilities of the bidder:

I. **Tools and Machinery infrastructure**

- a) Capacity of trenching per day (in meters).....
- b) Capacity of PLB pipe laying per day (in meters).....
- c) Capacity of pulling cable through duct / pipe per day (in meters).....
- d) Availability of HDD machine
(Owned.....Capacity.....
Leased).....Capacity.....

e) Particulars of vehicles available with the tenderer:

Type of Vehicles(s)	Registration number
.....
.....
.....

II. **Man power**

- f) No of trained supervisors -----
- g) No. of Trained splicers -----
- h) Capacity of engaging mazdoors per day

Place: Signature of tenderer / Authorized signatory.....

Date: Name of the tenderer.....

Seal of the tenderer

----- **END OF SECTION-III** -----

Section IV

Instruction to Bidders

A. INTRODUCTION:

1. DEFINITIONS

- a. **President of India:** The President of India means the President of India and his successors.
- b. **Government of India:** The Government or Government of India shall mean the President of India.
- c. The **BSNL** means Bharat Sanchar Nigam Limited, the company with Chairman & Managing Director and Board of Directors, with Head Quarter at New Delhi.

All references of :

Department

Chief General Manager

Principal General Manager

Sr. General Manager/ General Manager

Addl. General Manager/ Joint General Manager

Deputy General Manager / Deputy General Manager (Projects)

Divisional Engineer /Divisional Engineer (Projects)

Sub Divisional Engineer

Junior Telecom Officer

Chief Accounts Officer

Accounts Officer

Junior Accounts Officer

Including other officers in the BSNL, whatever designations assigned to them from time to time, who may be the in-charge of direction, supervision, testing, acceptance and maintenance including their successor(s) in the office appearing in various clauses shall be taken to mean the BSNL, an enterprise, under the Ministry of Communications and Information Technology, Government of India.

- d. The jurisdiction of CGM/PGM/GM/Addl.GM/ DGM/DET shall mean the territorial area under their control for the purpose of administration and management of the projects and other associated functions.
- e. Representative of CGM/PGM/GM/Addl.GM/ DGM / DET means Officer and staff under their control for the time being deputed for supervising the work or testing etc.
- f. Engineer – in – charge: The Engineer – in – charge means the Engineering Officer nominated by the CGM/PGM/GM/Addl.GM/ DGM to supervise the work, under the contract. (Minimum Divisional Engineer level officer to be nominated while approving the work order).
- g. Site Engineer: Site Engineer shall mean JTO/SDE of the BSNL who may be placed by the work order issuing authority for supervising the work.
- h. A/T Unit: A/T unit shall mean Acceptance and Testing unit of the BSNL.
- i. A/T Officer: An officer authorized by BSNL to conduct A/T.
- j. The words bidder and tenderer have been used interchangeably.
- k. Contract: The term contract means, the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of the BSNL and the contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time, by the

engineer in-charge and all these documents taken together shall be deemed to form one contract and shall be complementary to one another.

- l.** Contractor: The contractor shall mean the individual, firm or company, approved to undertake the works and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.
- m.** Work: The expression “works” shall unless there be something either in the subject or context repugnant to such construction be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent and whether original, altered, substituted or additional.
- n.** Schedule(s): Schedule(s) referred to in these conditions shall mean the relevant schedule(s) or the standard schedule of rates mentioned in the document.
- o.** Site: The site shall mean the land / or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which, the work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.
- p.** Normal time or stipulated time: Normal time or stipulated time means time specified in the work order to complete the work.
- q.** Extension of Time: Extension of Time means the time granted by the BSNL to complete the work beyond the normal time or stipulated time. The EOT may be with/without Liquidated damages as may be decided by the competent authority.
- r.** Date of Commencement of work: Date of commencement of work means the date of actual commencement of work or 7th day from the date of issue of work order, whichever is earlier.
- s.** Due date of completion: Due date of completion shall be the date by which the work shall be completed at site including clearance of site.
- t.** Duration of completion of work: The duration of completion of work or completion time shall be time specified in the work order plus extension of time granted, if any.
- u.** Excepted risk: Excepted risk are risks due to war (whether declared or not), invasion, act of foreign enemies, hostilities, civil war, rebellion, revolution, insurrection, military or usurped power, any acts of Government damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods and other causes over which, the contractor has no control and the same having been accepted as such, by the Accepting Authority or causes solely due to use or occupation by the government of the part of the work, in respect of which a certificate of completion has been issued.
- v.** Extra work: as used herein any work or compliance with any requirements, other than a change, which is not expressly or impliedly contemplated by the contract documents, and which is necessary to be performed for the proper completion of the contracted work. For the purpose of clarifications, it is declared that, any work or operation which shall be necessarily incidental to the proper performance of any item of work or part thereof shall be deemed to have been by implication provided for in the relevant item of work or part thereof and shall not constitute extra work.

2. ELIGIBILITY OF BIDDERS:-

(i) The invitation of bids is open to all bidders as per the eligibility mentioned in NIT of this tender document.

(ii) The experience certificate for carrying out the works and amounts received should be in the prescribed pro-forma and the certificate should be under the signature of officer responsible for maintaining the contractor's ledger e.g. AGM/AO (Cash)/DDO or equivalent officer of the concerned PSU i.e. BSNL/ MTNL/ TCIL/ ITI/ Rites/ HCL/ PGCIL/ Rail Tel/ any other Govt.

(Central/ State) undertaking/CTO (Chief Technical Officer) of Circle/State/LSA in case of licensed private telecom service provider as the case may be.

Of late big Govt. contracts are being carried out by the Public Sector Undertakings mentioned herein through a chain of contractors. In such case, the experience certificate, if issued, in favor of a contractor, in the chain, by such PSUs in the prescribed format shall be acceptable.

B. THE BID DOCUMENT

3. BID DOCUMENT:

3.1 The construction work to be carried out, goods required, bidding procedures and contract terms are prescribed in the Bid Documents. The Bid Document include:

3.1.1. Part-A (Qualifying Bid):

- 3.1.1.1 Notice Inviting Tender
- 3.1.1.2 Bid form
- 3.1.1.3 Tenderer's Profile
- 3.1.1.4 Instruction to Bidders
- 3.1.1.5 General (commercial) conditions of the contract
- 3.1.1.6 E-tendering Instructions to Bidders
- 3.1.1.7 Special Conditions of Contract
- 3.1.1.8 Important Instructions
- 3.1.1.9 Scope of Work and jurisdiction of the contract
- 3.1.1.10 Bid Security/EMD
- 3.1.1.11 PBG Format
- 3.1.1.12 OF Cable Construction Specifications
- 3.1.1.13 Proforma of Agreement
- 3.1.1.14 Standard Schedule of Rates for carrying out the OF Cable Construction work issued by BSNL for the area of work.
- 3.1.1.15 Optical Fiber Cable Specification Manual (Section-XIII)
- 3.1.1.16 Annexure-A Near Relative Certificate.
- 3.1.1.17 Annexure-B Experience Certificate.
- 3.1.1.18 Annexure-C Declaration about Genuineness of Documents/Certificates
- 3.1.1.19 Annexure-D Certificate w.r.t. Rule 144 (xi) to GFR 2017
- 3.1.1.20 Annexure-E Certificate w.r.t.MII/Local Content for Telecom Product, Services or Works
- 3.1.1.21 Annexure-F Self declaration w.r.t. not blacklisted/ de-registered/ debarred
- 3.1.1.22 Schedule of quantities stipulated under this tender and rates (Section XIX)

3.1.2 Part-B (Financial Bid)

- 3.1.2.1 Schedule for Quoting the Rates.(Section-XX)

3.2 The Bidder is expected to examine all instructions, forms, terms & conditions and the specifications in the bid documents. Failure to furnish all information required as per the Bid Documents or submission of bids not substantially responsive to the Bid Documents in every respect will be at the bidder's risk and shall result in rejection of the bid.

4. QUERIES ON BID DOCUMENT:

A prospective bidder, requiring any clarification of the Bid Documents shall notify the tender issuing authority in writing at the e-mail id indicated in the NIT for Bids. It may be appreciated that such communications is preferably done through e-mail only as any other mode of

communications may result in delay for which BSNL shall not be responsible. The tender issuing authority shall respond in writing, to the same e-mail id, to any request for clarification of the Bid Documents, which it receives not later than 14 days prior to the date of opening of the bids. Copies of such queries (without identifying the source) and the clarifications, if any, by the tender issuing authority shall be placed on e-tendering web-site in form of Addendum/Corrigendum and all such clarifications issued by the tender issuing authority will form part of the bid document.

5. AMENDMENT OF BID DOCUMENT:

At any time, prior to the date for submission of bids, the tender issuing authority may, for any reason whether suo moto or in response to a clarification requested by a prospective Bidder, modify the bid documents by amendments. **Queries/clarifications sought up to fourteen days prior to date of bid submission shall be entertained. Any query/clarification sought less than fourteen days prior to bid opening date shall not be considered for reply/clarification.**

The amendments shall be notified in writing to such prospective bidders who seek clarifications on their mail id, besides uploading the same on e-tendering e tender portal.

In order to afford prospective bidders reasonable time to take the amendments into account in preparing their bids, the tender issuing authority may, at its discretion, extend the deadline for the submission/opening of bids suitably.

All the amendments/corrigendum/addenda/extension of date(s) shall be published only on e-tendering website i.e. <https://etenders.gov.in/> Therefore, the prospective bidders are advised to visit the website regularly.

C. PREPARATION OF BIDS

6. Cost of Bidding:

The bidder shall bear all costs associated with the preparation and submission of the bid through e-tendering. The BSNL, will in no case, be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

7. DOCUMENTS ESTABLISHING BIDDER’S ELIGIBILITY AND QUALIFICATION:

The bidder shall submit the following documents online on the e-tender portal (along with the Qualifying Bid) for establishing the bidder’s eligibility which are mandatory:

List of Documents in the ‘Technical Bid Folder’ to be uploaded on e-tendering portal
1. Scanned copy of the duly filled and signed Bid Form, Section-II of the tender document.
2. Scanned copy of the duly filled and signed Tenderer’s Profile, Section-III of the tender document.
3. Scanned Copy of receipt / Demand Draft /Bankers Cheque/BG proof for on line payment of requisite value towards the price of tender document as per NIT.
4. Scanned Copy of receipt / Demand Draft / Bankers Cheque/BG/ Insurance surety bond proof for on line payment of requisite value for the Bid Security/EMD as per NIT.
5. Scanned copy of PAN card
6. Scanned copy of the valid EPF Registration Certificate.
7. Scanned copy of the valid ESI Registration Certificate.
8. Scanned copy of the valid GSTIN Registration Certificate.

9. Scanned copy of Solvency certificate from the banker of the tenderer: <i>For works costing up to Rs. 20 lakhs-solvency certificate should be of Rs. 5 lakhs; For works costing more than 20 lakhs– solvency certificate should be of Rs. 10 lakhs. The solvency certificate shall not be older than 3 months from the date of issue of NIT.</i>
10. Scanned copy of the Financial turnover as per NIT duly audited by CA. UDIN must be verified on certificates issued by Chartered Accountants and Experience Certificate(s) as per NIT in the prescribed pro-forma (Annexure-B).
11. Scanned copy of the documents, as applicable, in support of registration of the Company/Firm/Proprietorship: <ul style="list-style-type: none"> ➤ The registration of the firm, authenticated copy of partnership deed in cases of partnership firm. ➤ Attested copy of Articles of Association duly registered with Registrar of Company affairs, in case of Limited/Pvt. Limited Company. ➤ Duly executed Affidavit, stating that tenderer is the sole proprietor of the firm or any document issued by the taxation authorities stating that tenderer is the sole proprietor of the firm, in case of proprietorship firm.
12. Scanned copy of Registered Power of Attorney (duly registered with sub registrar)/Resolution of Board of Directors, authorizing individual(s)including the person with whose DSC the tender is submitted on e-tendering portal (if and as applicable).
13. Signed tender document on each and every page without any alternation/ digitally uploaded in PDF format with digital signature of the authorized signatory on the document without any alternation
14. Scanned copy of No Near relative certificate(s) in the prescribed pro-forma as per Annexure-A .
15. Scanned copy of duly completed Declaration about Genuineness of Documents/Certificates as per Annexure-C .
16. Scanned copy of MSE certificate in case bidder is an MSE bidder
17. A self-declaration on company letter head that the bidder is not black listed by GST/ BSNL/ MTNL/ TCIL/ ITI/ Rites/ HCL/ PGCIL/ Rail Tel/ any other Govt. (Central/ State) undertaking/ licensed private telecom service provider authorities in the prescribed pro-forma as per Annexure-F .
18. Certificate(s) w.r.t. Rule 144 (xi) to GFR 2017 in the prescribed pro-forma as per Annexure-D .
19. Certificate w.r.t. MII/Local Content for Telecom Product, Services or Works as per Annexure-E .
20. Any other document mentioned in Bid document, addendum, corrigendum (if any).

Note:

a.) The successful tenderer has to submit the attested copy of the Labour License, if applicable (to be ascertained by him), within one month of signing the agreement which should remain valid through the entire period of the agreement. No work Order(s) shall be issued to the successful tenderer till he submits the attested copy of the Labour License or an affidavit that he is exempted from securing labour license.

**The one month period can be extended further by one month/specified duration subject to genuine and special reason submitted by the contractor with proof requesting for additional one month.*

- b) Tender document(s), duly filled in and signed by tenderer or his authorized representative along with seal on each page. All corrections and overwriting must be initialed with date by the tenderer or his authorized representative.
- c) The self-attested copy of required experience certificate issued by officer maintaining the payment ledger of the contractors.
- d) A mandatory undertaking from MSE bidders regarding declaration of UAM number on CPPP.

Self attested copy of all above mentioned documents are required to be uploaded along with the bid otherwise bid will be liable to be rejected.

8. **BID SECURITY(EMD):**

8.1 The bidder shall furnish, as part of his bid, a bid security (EMD) for an amount as mentioned in NIT. No interest shall be paid by the BSNL on the bid security for any period, whatsoever.

8.2 The bid security is required to protect the BSNL against the risk of bidders conduct, which would warrant the security's forfeiture, pursuant to para 8.7.

8.3 Bid Security shall be paid in the form of Demand Draft/ Banker's Cheque/Bank Guarantee/Insurance surety bond issued by a Nationalized/ Scheduled Bank (except Co-operative banks)/Insurance Company, drawn in favour of **ACCOUNTS OFFICER (CASH) O/o CGMT, BSNL, Jaipur, payable at Jaipur**, which should be valid for **210 days** from the tender opening date. Original DD of Bid Security shall be attached as part of document under technical bid para 7.4 in Physical Form. Scanned copy of the same DD shall be uploaded online while bidding. The bid security can also be deposited electronically to the following account and documentary proof of having deposited the money shall be attached as document against para7.4.

SN	Information Required	Mandatory details
1	Name (as per bank account)	ACCOUNTS OFFICER (CASH) O/o CGMT, BSNL, Jaipur
2	Bank Account Number	83001010017565
3	Name of Bank	Canara Bank
4	Branch Address:	M I Road (Main), Jaipur
5	IFSC Code	CNRB0018300

Note: The MSE bidders are exempted from payment of bid security:

- a) A proof regarding valid registration with body specified by Ministry of Micro, Small & Medium Enterprise for tendered items will have to be attached along with the bid.
- b) The enlistment certificate issued by MSME should be valid on the date of opening of tender.
- c) MSE unit is required to submit its monthly delivery schedule.
- d) If a vender registered with body specified by Ministry of Micro, Small & Medium Enterprise claiming concessional benefits (Exemption from Tender cost and EMD) is awarded work by BSNL and subsequently fails to obey any of the contractual obligations, he will be debarred from any further work/contract by BSNL for one year from the issue of such order.
- e) MSE (Micro and small enterprises) bidder should declare UAM number on CPP portal. The bidders who also fail to submit UAM number shall not be able to avail the benefits (Exemption from Tender cost and EMD) available to MSEs as contained in Public procurement policy for MSEs order, 2012

issued by Ministry of MSME. A mandatory undertaking from MSME bidders regarding declaration of UAM number on CPPP to be obtained.

8.4 A bid not secured in accordance with para 8.1 & 8.3 shall be rejected by the BSNL as non-responsive.

8.5 The bid security of the unsuccessful bidder will be refunded as promptly as possible after finalization of the contract but not later than 30 days after the expiry of the period of bid validity prescribed by the BSNL.

8.6 The successful bidder's bid security will be refunded after signing of agreement with the approved bidder.

8.7 The bid security shall be forfeited:

8.7.1 If a bidder withdraws his bid during the period of bid validity specified in the bid document or

8.7.2 If the bidder makes any modifications in the terms and conditions of the tender before acceptance of the tender, which are not acceptable to the BSNL or

8.7.3 In case of a successful bidder, if the bidder fails:

- to sign the agreement in accordance with Section XI, or
- to furnish Material Security in accordance with clause 5 (i) of Section V.
- to observe material terms and conditions stipulated in the tender document including mandatory/ statutory/legal requirements eg. Labour, Taxation laws etc.

9. BID PRICES:

9.1 The bidder shall give the total composite price inclusive of all levies and taxes, packing, forwarding, freight and insurance in case of materials to be supplied and inclusive of all taxes and levies but exclusive of Goods and service tax in case of works to be executed. Goods and Service tax shall be paid extra, if applicable. The contractor shall be responsible for loading/unloading and transporting the materials, to be supplied by the BSNL from any BSNL store / Telecom factory to the work site. The charges on this account shall be regulated as per the rates in Standard Schedule of Rates (SOR). The offer shall be firm in Indian Rupees.

9.2 Prices shall be quoted by the bidder as percentage below / above / at par the standard schedule of rates in the schedule of quoting rates (Financial Bid)/BOQ. Prices quoted at any other place shall not be considered. Quoted rates shall be inclusive of all charges and levies but exclusive of Goods and Service Tax (GST) which shall be paid extra as applicable.

9.3 The price quoted by the bidder shall remain fixed during the entire period of contract and shall not be subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

9.4 Discount, if any, offered by the bidders shall not be considered unless they are specifically indicated in the schedule of quoting rates (Financial Bid). Bidders desiring to offer discount shall therefore modify their offers suitably while quoting.

9.5 (i). In case of any variation in quantity of individual sub-items under item No.1(i.e Excavation of Trenches) of SOR as mentioned in Section-XIX Part-B of tender document, on account of change in method of execution and/or soil strata, the payment of item No.1 for excavation of trenches shall be limited to approved average running rate per meter of this item as a whole.

(ii). However, in case of any variation in quantity of individual items, arising from change in method of execution warranted due to statutory requirement of local bodies/state govt./central govt. which was not stipulated in survey and incorporated in SOR/quantity earlier, the payment of item No.1(i.e. Excavation of trenches) may be made as per actual without aforesaid capping of payment as mentioned in para 9.5(i) above.

The variation on this account shall be permitted only with prior approval of the tender approving authority after recording adequate reasons and justification supported by statutory orders/documents

necessitating such change subject to limits of variation of overall contract value as stipulated under Clause- 22 of Section IV of this bid document.

10 PERIOD OF VALIDITY OF BIDS:

10.1 Bid shall remain valid for **180** days from date of opening of the bid (Qualifying Bid). **A Bid valid for a shorter period shall be rejected by BSNL as non-responsive.**

10.2 In exceptional circumstances, the tendering authority may request the consent of the bidder for an extension to the period of bid validity for a period of upto 120 days. The request and the response thereto shall be made in writing. The bid security provided under clause 8 shall also be suitably extended. The bidder may refuse the request without forfeiting its bid security. A bidder accepting the request and granting extension will not be permitted to modify its bid.

11 SIGNING OF BID:

11.1 The bidder shall prepare, as a part of his bid, the bid documents (in original) duly signed on each and every page, establishing the conformity of his bid to the bid documents of all the works to be executed by the bidder under the contract.

11.2 The bid shall contain no inter-lineation, erasures or overwriting except as necessary to correct errors made by the bidder in which case such corrections shall be signed with date by the person or persons signing the bid.

11.3 . Power of Attorney:

(a) The power of attorney **in original**, in case, person other than the sole proprietor/ authorized signatory has signed the tender document, shall be on a non-judicial stamp paper of Rs. 50/- in case same has been executed in between blood relations and in other cases, it should be on a non-judicial stamp paper of Rs.100/- and should be attested by the Notary Public or same should be registered before the sub registrar.

The power of attorney in original should be submitted when asked.

(b) The power of Attorney in original is executed by a person who has been authorized by the Board of Directors of the bidder in this regard, on behalf of the company/ institution/ Body corporate.

(c) In case of the bidder being a partnership firm, the said Power of Attorney should be executed by all the partner(s) in favour of the said Attorney.

(d) Attestation of the specimen signature of such authorized signatory of the bid by the Company's/Firm's bankers shall be furnished. Name, designation, phone number, mobile number, email address and postal address of the authorized signatory shall be provided.

(e) In case the representative of bidder company who uploads the document on e-tender portal using his Digital Signature Certificate (DSC) is different from the authorised signatory for the bid (Power of Attorney holder) then the representative who uploads the document on e-tender portal using DSC issued in his name shall also be made as one of the power of attorney holder by the bidder company, in addition to the authorised signatory for the bid.

D. SUBMISSION OF BIDS

12 Method of Preparation & Submission of Bids in e-Tendering System:

12.1 Bid should be submitted in the following manner:

12.1.1 Documents to be submitted-

All the documents in **Qualifying Bid –Part-A** as mentioned in clause 7 of this section and **Financial Bid-Part-B** as mentioned in clause 3 of this section, are to be uploaded in the e tender portal including proof of deposit of EMD, Cost of Tender document which may be deposited by way of DD/Banker Cheque/Bank Guarantee/ Insurance Surety Bond.

The envelope containing the offline documents as per NIT envelope must be superscribed as below and shall be dropped in the tender box.-

<u>‘Envelope for BID security, Tender cost ’</u>	
NIT No.-----	Dated -----
“Tender for Optical Fiber Cable Laying construction work for -----“	
To	
AGM (MM)	
O/o CGMT, Jaipur	
From-	
.....	
.....	
.....	

- (i) Original Demand Draft(DD)/Banker Cheque/Bank Guarantee/Insurance Surety Bond drawn in favor of Accounts Officer (Cash) O/o CGMT, BSNL, Jaipur, payable at Jaipur ,issued by any scheduled bank towards the payment of Bid Security/EMD or Exemption certificate as applicable.
- (ii) Original Demand Draft(DD)/ Banker Cheque – drawn in favor of Accounts Officer (Cash) O/o CGMT, BSNL, Jaipur, payable at Jaipur, issued by any scheduled bank towards the payment of Price of Bid Document or Exemption certificate as applicable.

All the above documents should be self-attested by the tender signing person.

12.1.2 Submission of Bids on e-tendering website-

The bidder shall upload his bid for this tender in two separate folders marked as ‘Qualifying_Bid’, and ‘Financial_Bid’.

The bid folders shall contain the documents as given below-

- a) **‘Qualifying_Bid’ folder** –The scanned documents in electronic form as per clause 7 of Section IV must be uploaded in this folder.
- b) **‘Financial_Bid’ folder-** The Rates duly quoted in the prescribed format as per **Section-XX**, Schedule for Quoting the Rates.

12.2 The tenders which are not submitted in above mentioned manner shall be summarily rejected.

12.3 The tenderer will be bound by all terms, conditions & specifications as detailed in the tender documents.

- 12.4 Any tender with conditions other than those specified in the tender document is liable to be summarily rejected. No modification by the contractor in any of the conditions will be permitted.

13 SUBMISSION OF e-BIDS:

- 13.1 e-Tenders should be submitted strictly as per the procedure mentioned in clause 12 above. The tenderer is to ensure the delivery of the physical envelope at the correct address and submission of the Qualifying Bid and Financial Bid online as mentioned above. The BSNL shall not be held responsible for delivery of bid to the wrong address or wrong submission/non-submission of the bids online.
- 13.2 If tender opening day is declared as holiday by the government then the bids technical or financial will be opened on the next working day. The Time & Venue will remain unchanged.

13.3 LATE BIDS:

Tenders shall not be accepted online after the specified date and time of closing of the tender. It is the sole responsibility of the tenderer that he should ensure timely online submission of tender and in the manner as prescribed on the e-tendering website. The time settings fixed in the server side & displayed at the top of the e-tendering site, will be valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system. The bidders should follow this time during bid submission.

- 13.4. Post Bid submission:** No documents post bid submission shall be entertained/taken. Any deficient bid in this regard may be summarily rejected. However, any clarifications on the submitted bid documents may be sought to examine and evaluate the bid, if required for the sake of clarity.

14. MODIFICATIONS AND WITHDRAWAL OF BIDS :

- 14.1 The bidder may modify or withdraw his bid before the due date and time of submission in the manner as prescribed on the e-tendering website.
- 14.2 No bid can be modified subsequent to the deadline for submission of bids.

E. BID OPENING AND EVALUATION:

15. Opening of bids by the BSNL:

15.1 The BSNL shall open the bids online in the presence of the authorized representatives of bidders online or physically present who wish to attend, at time & date specified in DNIT. The bidder's representatives, who are present, shall sign in an attendance register. Authority letter to this effect shall be submitted by the authorized representatives of bidders before they are allowed to participate in the bid opening.

15.2 A maximum of two representatives for any bidder shall be authorized and permitted to attend the bid opening.

15.3 Name of envelopes to be opened & information to be read out by Tender Opening Committee.

15.4 At the time of opening the bids, initially envelope containing offline documents of all bidders will be opened.

15.5 The bid opening committee shall count the number of bids downloaded from the e-tendering portal and assign serial numbers to the bids. For example, if 10 tenders have been received the bids

shall be numbered as 1 of 10, 2 of 10 etc. All the members of TOC shall initial on all the pages of all the bids downloaded with date.

After opening the qualifying bid, all the documents contained therein shall be serially numbered and signed by the tender opening committee members and TOC should prepare and submit TOC report.

15.6 The techno-commercial bid shall be opened on the date and time of tender opening given in DNIT. The financial bid will not be opened on the Date of opening of techno commercial bids.

Thereafter the TEC will evaluate Techno-commercial bids & the report of TEC will be approved by competent authority. The financial bids of those bidders who are approved to be techno-commercially compliant by the competent authority, will be opened by TOC in front of techno commercially eligible bidders/authorized representatives.

The **FINANCIAL BID** shall be opened in the following manner:

- i). The folder marked “**Financial Bid**”, will be opened only for those bidders who have been found eligible after evaluation of Qualifying Bids.
- ii). The date and time of opening of Financial Bid shall be notified on e-tendering portal for information of all the bidders.
- iii). After opening the “Financial Bid” the TOC shall prepare the report containing the bidder’s name, bid prices, modifications, etc.
- iv). In case there is a discrepancy in figures and words in the quote, the same shall be announced in the bid opening, but the quoted rates in words shall prevail.

16. CLARIFICATION OF BIDS BY THE BSNL:

To assist in examination, evaluation and comparison of bids, the BSNL may, at its discretion ask the bidder for clarification of its bid. The request for its clarification and its response shall be in writing/e-tender portal. However, no post bid clarification at the initiative of the bidder shall be entertained.

17. VERIFICATION OF BIDS BY THE BSNL

If any of the documents, required to be submitted along with the technical bid is found wanting, the offer is liable to be rejected at that stage. However, the BSNL at its discretion may call for any clarification regarding the document within a stipulated time period. In case of non-compliance to such queries, the bid will be outrightly rejected without entertaining further correspondence in this regard.

18 PRELIMINARY EVALUATION :

18.1 BSNL shall evaluate the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed and whether the bids are generally in order.

18.2 If there is discrepancy between words and figures, the amount in words shall prevail. **If the Vendor does not accept the correction of the errors, his bid shall be rejected.**

18.3 Prior to the detailed evaluation, the BSNL will determine the substantial responsiveness of each bid to the bid document. For purpose of these clauses a substantially responsive bid is one which confirms to all the terms and conditions of the bid documents without deviations.

18.4 A bid, determined as substantially non-responsive will be rejected and shall not subsequent to the bid opening be made responsive by the bidder by correction of the non-conformity.

18.5 The BSNL may waive any minor infirmity or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of the bidder.

19. EVALUATION AND COMPARISON OF SUBSTANTIALLY RESPONSIVE BIDS:

1. The BSNL shall evaluate in detail and compare the bids previously determined to be substantially responsive.

The evaluation and comparison of responsive bids shall be on the percentage (above/below/at par) offered and indicated in schedule of quoting rates of the bid documents. Bidder quoting the lowest rates will be L-1 for this tender.

2. Evaluation shall be done for all works together, as a package.

20. CONTACTING THE BSNL:

20.1 No bidder shall try to influence the BSNL on any matter relating to its bid, from the time of bid opening till the time the contract is awarded.

20.2 Any effort by the bidder to modify his bid or influence the BSNL in the BSNL's bid evaluation, bid comparison or the contract award decisions shall result in the rejection of the bid.

21 AWARD OF CONTRACT & DISTRIBUTION OF WORK:

21.1 The BSNL shall consider award of contract only to L-1 bidder whose offers have been found technically, commercially and financially acceptable. The L-1 bidder is one who quotes the lowest rate.

21.2 If there are more than two tenderers at the same rates, the tenderer having highest experience 7 or 5 years period category (as the case may be) shall precede to the one having lower experience while deciding ranking for considering for the award of work. The final ranking, L-1, L-2, L-3 etc. shall be worked out using the highest experience irrespective of criteria of 7 or 5 years period category.

21.3 25% of work quantity shall be reserved for MSE bidders. Out of 25% reserved for MSEs 20% of 25% shall be procured from MSEs owned by SC/ST entrepreneurs. Out of total procurement from MSEs, 3% within the 25 % target shall be earmarked for procurement from MSEs owned by women. If eligible MSE bidders are available then 25% quantity shall be reserved & distribution of work shall be done accordingly.

21.4 If L-1 is not an MSE and MSE bidder(s) has/have quoted price within L-1+15% of price band defined in relevant policy such MSE bidder shall be given opportunity to match L-1 price and contract will be awarded for 25 % of total qty to MSEs bidders.

21.5 If no eligible MSE bidders are available then aforesaid earmarked 25% quantity shall be de-reserved & procured from participating bidders.

22. BSNL'S RIGHT TO VARY QUANTUM OF WORK:

The quantity stipulated in the tender are estimated and the BSNL reserves the right to vary the value of works to the extent of -50% to +50% of contract value (quantity wise as well as total work wise) during contract period at the same rates and terms & conditions with prior approval of CGMT, BSNL, Rajasthan.

23. Liability :

BSNL will not be liable to the contractor for any losses or damages, costs, charges which the contractor may in any way sustain/suffer due to non-issue of work order/delay in making store available or delay in receipt of permission from road authorities/local bodies/forest department.

24. BSNL'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS ;

The BSNL reserves the right to accept or reject any bid and to annul the bidding process and reject all bids, at any time prior to award of contract without assigning any reason whatsoever and without thereby incurring any liability to the affected bidder or bidders on the grounds for the BSNL's action.

25. ISSUE OF LETTER OF INTENT:

- 25.1 The issue of letter of intent shall constitute the intention of the BSNL to enter into the contract with the bidder. Letter of intent will be issued as offer to the successful bidder.
- 25.2 The bidder shall within 14 days of issue of letter of intent, give his acceptance along with Performance security in conformity with clause 5(ii) of Section V, provided with the bid documents. However, Tender Issuing Authority reserves the right to extend the time limit if the reasons on which extension is sought are deemed fit.

26. SIGNING OF AGREEMENT:

- 26.1 Once the tender is approved by the competent authority and Letter of Intent (LoI) is issued, the contractor shall deposit the Performance Bank Guaranty (PBG) and Material Security in the form of Bank Guaranty (BG) within fourteen days. The Bid Security deposited along with the tender shall be refunded to the bidder after signing of the agreement.
- 26.2 An agreement shall be signed after submission of PBG and material Security.

27. ANNULMENT OF AWARD:

Failure of the successful bidder to comply with the requirement of clause 25 of section IV shall constitute sufficient ground for the annulment of the award and forfeiture of the bid security, in which event; the BSNL may make the award to any other bidder at the discretion of the BSNL or call for new bids

28. Security Clause

Mandatory Licensing requirements with regards to security related concerns issued by Government of India from time to time shall be strictly followed.

29 ACTION BY PURCHASER AGAINST BIDDER(S)/VENDER(S) IN CASE OF DEFAULT

In case of default by Bidder(s)/Vendor(s) such as

- (a) Failure to perform any other obligation(s) under the Contract; and
 - (b) Or any other default whose complete list is enclosed in Appendix -1 of Section –IV;
- Purchaser will take action as specified in Appendix -1 of Section –IV.

Appendix-1 to Section IV (Instruction to Bidders)

S. No.	Defaults of the bidder / vendor.	Action to be taken
A	B	C
1(a)	a) Bank Instruments with the bid to meet terms & condition of tender in respect of tender fee and/ or EMD; b) Certificate for claiming exemption in respect of tender fee and/ or EMD;	i) Rejection of tender bid of respective Vendor. ii) Banning of business for 3 years which implies barring further dealing with the vendor for procurement of Goods & Services including participation in future tenders invited by BSNL for 3 years from date of issue of banning order.

	and detection of default at any stage from receipt of bids till award of APO/ issue of PO/WO.	iii) Termination/Short Closure of PO/WO, if issued. This implies non acceptance of further supplies / work & services except to make the already received material work/ complete work in hand.
Note 1:- However, in this case the performance guarantee if alright will not be forfeited.		
Note 2:- Payment for already received supplies/ completed work shall be made as per terms & conditions of PO/ WO.		
1(b)	Submitting fake / forged documents towards meeting eligibility criteria such as experience capability, supply proof, registration with Sales Tax, Income Tax departments etc and as supporting documents towards other terms & conditions with the bid to meet terms & condition of tender :	
	(i) If detection of default is prior to award of APO	i) Rejection of Bid & ii) Forfeiture of EMD.
	(ii) If detection of default after issue of APO but before receipt of PG/ SD (DD,BG etc.)	i) Cancellation of APO, ii) Rejection of Bid & iii) Forfeiture of EMD.
	(iii) If detection of default after receipt of PG/ SD (DD,BG etc.) .	i) Cancellation of APO ii) Rejection of Bid & iii) Forfeiture of PG/ SD. However on realization of PG/ SD amount, EMD, if not already released shall be returned.
Note 3:- However, settle bills for the material received in correct quantity and quality if pending items do not affect working or use of supplied items.		
Note 4:- No further supplies are to be accepted except that required to make the already supplied items work.		
S. No.	Defaults of the bidder / vendor.	Action to be taken
A	B	C
2	If vendor or his representative uses violent/ coercive means viz. Physical / Verbal means to threatens BSNL Executive / employees and/ or obstruct him from functioning in discharge of his duties & responsibilities for the following :	Banning of business for 3 years which implies Barring further dealing with the vendor for procurement of Goods & Services including participation in future tenders invited by BSNL for 3 years from date of issue of banning order.

	<p>a) Obstructing functioning of tender opening executives of BSNL in receipt/ opening of tender bids from prospective Bidders, suppliers/ Contractors.</p>	
	<p>b) Obstructing/ Threatening other prospective bidders i.e. suppliers/ Contractors from entering the tender venue and/ or submitting their tender bid freely.</p>	
3	<p>Non-receipt of acceptance of APO/ AWO and SD/ PG by L-1 bidder within time period specified in APO/ AWO.</p>	<p>Forfeiture of EMD.</p>
4.1	<p>Failure to supply and/ or Commission the equipment and /or execution of the work at all even in extended delivery schedules, if granted against PO/ WO.</p>	<p>i) Termination of PO/ WO. ii) Under take purchase/ work at the risk & cost of defaulting vendor. iii) Recover the excess charges if incurred from the PG/ SD and outstanding bills of the defaulting Vendor.</p>
4.2	<p>Failure to supply and/ or Commission the equipment and /or execution of the Work in full even in extended delivery schedules, if granted against PO/ WO.</p>	<p>i) Short Closure of PO/ WO to the quantity already received by and/ or commissioned in BSNL and/ or in pipeline provided the same is usable and/or the Vendor promises to make it usable. ii) Under take purchase/ work for balance quantity at the risk & cost of defaulting vendor. iii) Recover the excess charges if incurred from the PG/ SD and outstanding bills of the defaulting Vendor.</p>

S. No.	Defaults of the bidder / vendor.	Action to be taken
A	B	C
5.1	The supplied equipment does not perform satisfactory in the field in accordance with the specifications mentioned in the PO/ WO/Contract.	<p>i) If the material is not at all acceptable, then return the non acceptable material (or its part) & recover its cost, if paid, from the o/s bills/ PG/ SD.</p> <p>OR</p> <p>ii) If the material is inducted in network & it is not possible to return it and/ or material is acceptable with degraded performance, the purchaser may determine the price for degraded equipment (Financial penalty = Price – price determined for degraded equipment) himself and/ or through a committee.</p> <p>Undertake recovery of financial penalty from outstanding dues of vendor including PG/ SD.</p>
5.2	Major quality problems (as established by a joint team / committee of User unit(s) and QA Circle) / performance problems and non-rectification of defects (based on reports of field units and QA circle).	<p>i) If the material is not at all acceptable, then return the non acceptable material (or its part) & recover its cost, if paid, from the o/s bills/ PG/ SD;</p> <p>OR</p> <p>ii) If the material is inducted in network & it is not possible to return it and/ or material is acceptable with degraded performance, the purchaser may determine the price for degraded equipment (Financial penalty = Price – price determined for degraded equipment) himself and/ or through a committee.</p> <p>Undertake recovery of financial penalty from outstanding dues of vendor including PG/ SD;</p> <p>and</p> <p>iii) Withdrawal of TSEC/ IA issued by QA Circle.</p>

S. No.	Defaults of the bidder / vendor.	Action to be taken
A	B	C
6	Submission of claims to BSNL against a contract	i) Recovery of over payment from the outstanding dues of Vendor including EMD/ PG & SD etc. and by invoking 'Set off' clause 21 of Section 5 Part A or by any other legal tenable manner. ii) Banning of Business for 3 years from date of issue of banning order or till the date of recovery of over payment in full, whichever is later.
	(a) for amount already paid by BSNL .	
	(b) for Quantity in excess of that supplied by Vendor to BSNL.	
	c) for unit rate and/ or amount higher than that approved by BSNL for that purchase.	
Note 5:- The claims may be submitted with or without collusion of BSNL Executive/ employees.		
Note 6:- This penalty will be imposed irrespective of the fact that payment is disbursed by BSNL or not		
7	Network Security/ Safety/ Privacy:- If the vendor tampers with the hardware, software/ firmware or in any other way that a) Adversely affects the normal working of BSNL equipment(s) and/ or any other TSP through BSNL.	i) Termination of PO/ WO. ii) Banning of business for 3 years which implies barring further dealing with the vendor for procurement of Goods & Services including participation in future tenders invited by BSNL for 3 years from date of issue of banning order. iii) Recovery of any loss incurred on this account from the Vendor from its PG/ SD/ O/s bills etc. iv) Legal action will be initiated by BSNL against the Vendor if required.
	b) Disrupts/ Sabotages functioning of the BSNL network equipments such as exchanges, BTS, BSC/ MSC, Control equipment including IN etc., transmission equipments but not limited to these elements and/ or any other TSP through BSNL.	
	c) tampers with the billing related data/ invoicing/ account of the Customer/ User(s) of BSNL and/ or any other TSP(s)	
	d) hacks the account of BSNL Customer for unauthorized use i.e. to threaten others/ spread improper news etc.	
	e) undertakes any action that affects/ endangers the security of India.	

S. No.	Defaults of the bidder / vendor.	Action to be taken
A	B	C
8	If the vendor is declared bankrupt or insolvent or its financial position has become unsound and in case of a limited company, if it is wound up or it is liquidated	<p>i) Termination/ Short Closure of the PO/ WO.</p> <p>ii) Settle bills for the quantity received in correct quantity and quality if pending items do not affect working or use of supplied items.</p> <p>iii) No further supplies are to be accepted except that required to make the already supplied items work.</p> <p>iv) In case of turnkey projects, If the material is commissioned and is usable without any degradation of performance, then settle bills for the acceptable equipment/ material (or its part).</p> <p>v) In case of turnkey projects, if the material is inducted in network & it is not possible to return it and/ or material is acceptable with degraded performance, the purchaser may determine the price for degraded equipment (Financial penalty = Price – price determined for degraded equipment) himself and/ or through a committee. Undertake recovery of financial penalty from outstanding dues of vendor including PG/ SD.</p>
S. No.	Defaults of the bidder / vendor.	Action to be taken
A	B	C
9	In the event of the vendor, its proprietor, Director(s), partner(s) is / are convicted by a Court of Law following prosecution for offences involving moral turpitude in relation to the business dealings.	<p>i) Termination/ Short Closure of the PO/ WO.</p> <p>ii) Settle bills for the material received in correct quantity and quality if pending items do not affect working or use of supplied items.</p> <p>iii) No further supplies are to be accepted except that required to make the already supplied items work.</p> <p>iv) In case of turnkey projects, If the material is commissioned and is</p>

		<p>usable without any degradation of performance, then settle bills for the acceptable equipment/ material (or its part).</p> <p>v) In case of turnkey projects, If the material is inducted in network & it is not possible to return it and/ or material is acceptable with degraded performance, the purchaser may determine the price for degraded equipment (Financial penalty = Price – price determined for degraded equipment) himself and/ or through a committee.</p> <p>Undertake recovery of financial penalty from outstanding dues of vendor including PG/ SD.</p>
10	If the vendor does not return/ refuses to return BSNL's dues:	i) Take action to appoint Arbitrator to adjudicate the dispute.
	a) in spite of order of Arbitrator.	<p>i) Termination of contract, if any.</p> <p>ii) Banning of business for 3 years which implies barring further dealing with the vendor for procurement of Goods & Services including participation in future tenders invited by BSNL from date of issue of banning order or till the date by which vendor clears the BSNL's dues, whichever is later.</p> <p>iii) Take legal recourse i.e. filing recovery suite in appropriate court.</p>
	b) in spite of Court Orders	<p>i) Termination of contract, if any.</p> <p>ii) Banning of business for 3 years which implies barring further dealing with the vendor for procurement of Goods & Services including participation in future tenders invited by BSNL from date of issue of banning order or till the date by which vendor clears the BSNL's dues, whichever is later.</p>
11	If the Central Bureau of Investigation/ Independent External Monitor (IEM) / Income Tax/ Sales Tax/ Excise / Custom Departments recommends such a course	Take Action as per the directions of CBI or concerned department.
12	The following cases may also be considered for Banning of business:	i) Banning of business for 3 years which implies Barring further dealing with the vendor for procurement of Goods & Services including participation in future tenders invited
	(a) If there is strong justification for believing that the proprietor,	

<p>manager, MD, Director, partner, employee or representative of the vendor/ supplier has been guilty of malpractices such as bribery, corruption, fraud, substitution of tenders, interpolation, misrepresentation with respect to the contract in question.</p>	<p>by BSNL for 3 years from date of issue of banning order.</p>
<p>(b) If the vendor/ supplier fails to execute a contract or fails to execute it satisfactorily beyond the provisions of Para 4.1 & 4.2.</p>	
<p>(c) If the vendor/ supplier fails to submit required documents/ information, where required</p>	
<p>d) Any other ground which in the opinion of BSNL is just and proper to order for banning of business dealing with a vendor/ supplier.</p>	

Note 7: The above penalties will be imposed provided it does not clash with the provision of the respective tender.

Note 8:-In case of clash between these guidelines & provision of invited tender, the provision in the respective tender shall prevail over these guidelines.

Note 9: Banning of Business dealing order shall not have any effect on the existing/ ongoing works/ AMC / CAMC which will continue along with settlement of Bills.

30. Reservation/ Procurement from MSE units: Purchase preference will be given to MSEs as defined in public procurement policy for Micro and small Enterprises (MSEs) order, 2012 dated: 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent orders/notifications issued by concerned Ministry. The guidelines / instructions / laws issued vide F.no CA/MMT/3-2/2018 dated:18.07.2019 with amendment issued from time to time from BSNL HQ with respect to provisions for Micro & Small Enterprises (MSEs) shall be followed.

----- **END OF SECTION-IV** -----

SECTION V

GENERAL (COMMERCIAL) CONDITIONS OF THE CONTRACT

1. APPLICATION :

The General conditions shall apply in contracts made by the BSNL for the execution of Laying PLB pipe and associated works by Open Trench Method/Trenchless Technology, Optical Fibre Cable Pulling/Blowing and splicing works

2. STANDARDS:

The works to be executed under the contract shall confirm to the standards prescribed in the OF Cable construction practices issued by BSNL using open trenching and trenchless technology methods.

3. PRICES :

Prices charged by the Contractor for the works performed under the Contract shall not be higher from the prices quoted by the Contractor in his Bid. Price once fixed will remain valid for the period of contract. Increase and decrease of taxes/duties will not affect the price except Goods and Service tax (GST) which will be paid at prevailing rate, during this period (proof of payment to the GST authority shall be submitted by the contractor on time to avail ITC by BSNL.)

4. SUBCONTRACTS:

The contractor shall not assign, sub contract or sublet the whole or any part of the works covered by the contract, under any circumstances.

5. SECURITY :

(i) Material Security:-

- a. The successful tenderer including MSE bidder will have to deposit material security as mentioned in the scope of work subject to a **minimum of Rs 2 Lakhs** in the form of bank guarantee, valid for the period of contract plus six months, from a scheduled bank and in the **material security bond form** provided in the bid documents **Section-X**. Material security can also be submitted in the form of cross demand draft drawn in favor of **ACCOUNTS OFFICER (CASH) O/o CGMT, BSNL, Jaipur** issued by a schedule bank and **payable at Jaipur**. The Material security will be non-interest bearing deposit for any period whatsoever. BSNL reserves the right to increase the amount of material security based on the quantum of work/maximum store to be issued at the time of execution of the work at any point of time.
- b. The contractor at any point of time will not be issued stores costing more than material security. If due to any reason, more store has to be issued to the contractor then the material security shall be correspondingly enhanced to an amount equal to the cost of material/stores to be issued.
- c. The proceeds of the material security shall be payable to the BSNL as a compensation for any loss resulting from the contractor's failure to account for the material issued to him.
- d. The Material security shall be released / refunded within a month from the date of the payment of the last final bill of the work under the contract or final settlement of material account whichever is later on production of 'No Dues Certificate' from 'Engineer In Charge'.

ii) **Performance security:**

- a. The successful bidder including MSE bidder shall submit an amount equivalent to **5%** of the tender approved value as security deposit by way of Performance Bank Guarantee (PBG)/Insurance Surety Bond within 14 days from the date of issue of LOI, in favour of '**Accounts officer (Cash) O/o CGMT, BSNL, Jaipur**, from any scheduled bank in India, and valid for 30 months from the date of issue of LOI.
- a. On receipt of PBG/Insurance Surety Bond from the bidder, after confirmation of the genuineness of the PBG from the bank/Insurance Company, the EMD, if any, received earlier, will be returned.
- b. The proceeds of the performance security shall be payable to the BSNL as compensation for any loss resulting from the contractor's failure to perform the obligations under the contract and warranty obligations.
- d. The performance security deposit shall be refunded after expiry of warranty period of last work executed provided there are no recoveries to be made arising out of poor quality of work, incomplete work and/or violation of any terms and conditions of the contract as stipulated in the bid document.
- e. If there are recoveries to be made, Contractor shall deposit the money before the release of PBG for getting the PBG released and in failure to do so, PBG will be forfeited and recovery to be effected from the realized PBG amount and the balance amount, if any, after adjustment of recoveries, will be refunded to the bidder.
- f. It is the responsibility of the vendor to submit the proof that he has deposited the Goods & service tax in time. Otherwise BSNL will recover from subsequent bills or PBG as the case may be.
- g. No interest will be paid to the contractor on the security deposit.

6. **ISSUE OF WORK ORDERS AND TIME LIMIT:**

- i). Work will be executed by way of issuing work orders. Work orders may be issued in parts for a period as specified in the work order. The work order shall be for a part of work which will have to be completed in time as specified in work order.
- ii). The work orders shall be issued by the **MM Cell of Circle Office** with the approval of competent authority.
- iii). The BSNL reserves the right to cancel or modify the scope of work stipulated to be carried out against the work order in the event of change of plan necessitated on account of technical reasons or in the opinion of work order issuing authority or competent authority, the contractor is not executing the work at the required pace.
- iv). If due to non-availability of store/fund or any instructions from BSNL, work order could not be issued, BSNL will not pay any compensation of any type to contractor.

7. **EXTENSION OF THE TIME LIMIT:**

7.1 General:

- In each work order, the work order issuing authority shall specify the time allowed for completion of work consistent with the magnitude and urgency of work. The time allowed for carrying out the work is to be strictly observed by the contractor and shall be reckoned from seventh day from the date of issue of work order.
- In as much as "the time being deemed to be the essence of contract", throughout the stipulated period of contract, the work is to be proceeded with all due diligence on the part of the contractor.

7.2 Application for Extension of Time and Sanction of Extension of Time (EOT) :

7.2.1 There may be some hindrances, other than covered under force majeure, while execution of work and in such cases the contractor shall apply in writing to the engineer-in-charge for extension of time (EOT), on account of which, he desires such extension, on the same day of occurrence of hindrance. The Engineer-in-charge shall forward the request to the competent authority with his detailed report, within two days of receipt of request from the contractor. The competent authority is empowered to grant extension of time for completion of work on certain conditions. He shall exercise such powers, if the following conditions are satisfied.

7.2.1.1 The application contains the ground(s), which hindered the contractor in execution of work.

7.2.1.2 The Engineer-in-charge is of the opinion that the grounds shown for extension of time are reasonable.

7.2.2 The competent authority shall consider the request keeping all the facts and circumstances in view and shall grant extension of time, if in his opinion, there are reasonable and sufficient grounds for granting such extension and the reasons for delay are not ascribable to the contractor.

7.2.3 The competent authority may also grant extension of time for completion of work in cases where reasons for delay are ascribable to the contractor, but such extension of time shall be with LD charges as per clause dealing with Liquidated damages (LD) for delays in execution of works.

7.2.4 The competent authority shall grant EOT with time period for completion of work clearly mentioned. The sanction of the competent authority of EOT shall be issued under the signature of the Engineer-in-charge.

7.2.5 **If the competent authority is of the opinion that the grounds shown by the contractors are not reasonable and sufficient and declines to grant the extension of time, the contractor cannot challenge the soundness of the opinion by reference to arbitration. The decision of the competent authority on period of extension of time or refusal for extension of time shall be final and binding on the contractor.**

7.3 Grant of Extension of Time without Applications:

7.3.1 There are, at times, practical difficulties like non-availability of material, delay in providing permissions/right of way etc. reasons of which are ascribable to the BSNL. In such cases, the Engineer-in-charge with the approval of competent authority to sanction EOT, may issue extension of time suo moto without waiting for contractor to make an application for EOT. Entry of hindrances shall be made in the Hindrance Register. The BSNL will, however, not be liable to the contractor for any losses or damages, costs, charges, or expenses that the contractor may in any way sustain / suffer due to delay in making the above available.

8. MEASUREMENT, INSPECTION, TESTING AND ACCEPTANCE TESTING:

A. Open Trenching:

8.1 Measurement:

8.1.1 The measurement books are to be maintained by the officer-in-charge of the work or his immediate engineering subordinate not below the rank of Junior Telecom Officer. The entry shall be made in ink. No entry shall be erased. If a mistake is made, it should be corrected by crossing out the incorrect words or figures and inserting the corrections, the corrections thus made shall be initialed & dated by the officer concerned.

8.1.2 Responsibility of taking and recording measurements:

The measurement of various items of work shall be taken and recorded in the measurement book issued with each work order. The measurement shall be taken and recorded by an officer not below the rank of Junior Telecom Officer, supervising the work. The Junior Telecom Officer/Sub Divisional Engineer, directly responsible for supervision of work, shall be responsible for accuracy of 100% / 50% of measurements respectively. The Divisional Engineer shall be responsible for conducting test check of 20% of measurements.

8.1.3 **Method of recording of nomenclature of items:** Complete nomenclature of items, as given in the agreement need not be reproduced in the measurement book for recording the measurements but corresponding Item Code as provided, shall be used.

8.1.4 **Method of measurements:** The measurements of the work shall be done activity wise as and when the item of work is ready for measurement. The methods of measurement of various items are enumerated as under:

- **Measurement of depth of trenches:**

The cable routes of one work order shall be divided into a number of segments each of maximum 200 meters length bounded by identifiable landmarks at both the ends of the segments. Every 200m/400m Photo/video uploading should be ensured with coordination of route incharge before closing the trench. If landmarks are not available, length of segment may be maintained at 200 meters. The measurement of depth shall be recorded at each point of measurement (POM) in the measurement book in meters in the multiples of 5 cms. For example 97 cms will be recorded as 95 cms and 103 cms as 105 cms. The points of measurements shall be at a distance of 10 meters starting from 0 (zero) Meter. For example, if the length of segment is 75 meters, the POMs shall be at 0M, 10 M, 20 M, 30 M, 40 M, 50 M, 60 M, 70M. The last POM shall be at 75th M to be recorded against Residual POM.

The efforts required to excavate trenches is not proportionate especially with reference to depth. Therefore, normally the workers tend to dig shallow trenches. As standard depth of the trench is important for future life and protection of cables, this tendency has to be discouraged. In order to encourage the contractor to achieve best possible depth in the face of site constraints, the following scale of payment shall be applied for digging trenches of lesser depths, subject to condition that relaxation has been granted by the competent authority for lesser depths.

Authority for grant depth relaxation:

S.N.	Depth relaxation proposed	Competent Authority
1	Less than 165 cm up to 130 cm	DE Concern
2	Less than 130 cm up to 90 cm	DGM / Addl. GM Concern
3	Less than 90 cm up to 60 cm	GMTD
4	Less than 60 cm	CGMT

(i).In case depth achieved falls under different depth slabs as per the depth slab clause above, a separate application shall be submitted to the respective competent authority for granting of depth relaxation.

(ii)The competent authority for depth relaxation as per the above depth slab shall inspect/or authorize to inspect the route/location/segment of the route and enter inspection remark in the prescribed format.

TABLE-I For Normal & Hard soil for all areas <Name of Circle> and <name of the state/UT>

Depth between	Reduction in rate
< 165 Cms to \geq 150 Cms.	Pro rata basis
< 150 Cms to \geq 130 Cms.	12.5 % of approved rates
< 130 Cms to \geq 105 Cms.	25 % of approved rates
Below 105 Cms	40 % of approved rates

Table-2 For soft/hard rock for all areas <name of the state/UT> & <Name of Circle> Circle.

Depth Between	Reduction in rate
< 135 Cms to \geq 125 Cms.	5% of the approved rate.
<125 Cms to \geq 105 Cms	15% of the approved rate.
Below 105 Cms.	40% of the approved rate.

TABLE-3 For Hilly Terrain for all areas <Name of Circle> Circle

Depth between	Reduction in rate
< 90 Cms to \geq 80 Cms.	5 % of the approved rate
< 80 Cms to \geq 65 Cms.	12.5 % of approved rates
< 65 Cms to \geq 50 Cms.	25 % of approved rates
Below 50 Cms	40 % of approved rates

The payment for sub normal length should be calculated using the following formula:

$$P = (100 - ROR) \times RA \times D / (100 \times ND)$$

P = Payment for one meter

ROR = Reduction in rate in % as given above

RA = Approved rate of trenching per meter

D = Actual depth in Cms.

ND = Nominal depth of trench 165/135/90 cms for which the tender has been floated.

- **Measurement of Lengths and profiles of strata and protection:**

The measurements of length of trenches are on running meter basis, irrespective of type of soil encountered while digging.

The type of protection provided (item code-wise) in a segment shall be recorded in the measurement book in the sheet provided for this purpose.

- **Measurement of length of cable:** The length of cables laid in trenches, through pipes and through ducts shall be measured by use of RODO Meter/Measuring Tape. The length should be cross verified with the marking of lengths on the cables. The lengths shall be recorded in sheet provided in the measurement book.

- **Measurement of other items:** The measurement/numerical details of other items shall be recorded in the sheets provided for respective items viz.

- Digging of joint pit and preparation of joint chamber along with its type i.e. Brick chamber or Pre Cast RCC type.
- Fixing, Painting and sign writing of route/joint indicators.
- Termination of Cable in equipment room and no. of joints.

8.1.5 The contractor shall sign all the measurement recorded in the measurement book. This will be considered as an acceptance by the contractor, of measurements recorded in the MB. In case contractor fails to attend at the measurements or fails to countersign or to record the difference within a week, then in any such events the measurements taken by Engineer-in-charge or by the subordinate as the case may be shall be final and binding on the contractor and the contractor shall have no right to dispute the same.

- 8.1.6 The Divisional Engineer before passing the bill for sections covered by each set of measurement may carry out test check by re-opening trench at as many locations as necessary, as specified in document 'procedures for underground cable construction' and bills will be passed only when he is personally satisfied of the correctness of entries in the "measurement Book" and also when he is satisfied of other aspects of the work as per the terms of the contract. The contractor shall provide the necessary assistance of labour for re-opening of trench for test check by the Divisional Engineer. Separate payment shall not be made to the contractor for excavation of such test checks, however such test pits shall not be more than 20% of the cable laying work
- 8.1.7 Measurement of the work of cable pulling through pipe/duct will be taken equal to the length of the pipe / duct through which the cable has been pulled and not the total length of the cable pulled through pipe/duct.

B. Guidelines for Depth AT of Horizontal Directional Drilling

Brief Description of the work: A high capacity drilling machine is used to drill the earth in almost horizontal manner and hence the name of the technology. Two manholes of 2 Mt X 2 Mt X 2 Mt pits are taken at the places marked by the site engineer. The distance between these manholes can vary from a minimum of 40 metres to 250 metres.

The drilling is done from Entry pit towards the Exit pit. At the Exit pit the PLB pipes are attached to the drill rods and the pipes are pulled back towards the Entry pit.

In general RCC manholes are constructed at the Entry pit and Exit pit after the HDD work is completed.

HDD work along with manholes:

The location of manholes shall not only depend on the capacity of the machine but also on the roads. The man holes where the drilling commences is called the Entry Pit. The second manhole is called as Exit pit.

Normally if the HDD machine is kept near the Entry pit and the drilling is carried out, then the depth at which the Machine enters the earth shall not be less than 1.2 Mt. As per the T&D standard any pipe laying less than 1.2 Mt requires additional protection. In order to achieve higher depth at the Entry pit the HDD machine is kept at around 6 to 8 meters away from the Entry pit. A separate pit called as pilot entry pit is dug up at 4 to 6mtr away from the Entry pit.

Wherever the roads are not in straight line, the span length reduces between the Entry and Exit pit. In general in overlay access works, the manholes are constructed at every 200 Mtrs approximately. The PLB pipes are coupled using the HDPE couplers.

The HDD machine drills the earth using 3 meter length rods. These rods jointed to each other by welding. In the beginning of the first rod contains the drill bit and an electronic beacon house. While the underground drilling work is in progress the drill bit position can be monitored from the surface of the earth using a tracker. The depth and the direction of the bit are monitored from the tracker. This is due to beacon house located in the drill bit.

In the onward drilling from the entry pit to Exit pit normally a lesser diameter (4 inch diameter) drill bit is used. After the drill bit reaches the Exit pit, the drill bit and the beacon house are removed from the first rod. A higher diameter drill bit called, Back reamer is attached to the first rod. The pipes are attached to the reamer and the rods are pulled back. Thus in the return path the tracker cannot detect the depth and direction of the reamer. Hence depth of the pipes can be monitored during the drilling from Entry pit towards Exit pit only.

In general the HDD technology is used in the cities where open trenching is not permitted. These roads are covered thick BT surface. For verifying the depth the test pits cannot be taken in the middle of the road. The second difficulty arises due to the depth of the pipes, which are at about 3 meters below the surface. It is very difficult to manually open a test pit

to verify the depth. Hence carrying out the depth AT after the entire work is completed is not possible as is done in the usual depth check. Hence the Depth AT for the HDD work shall be done in real time.

The following tests and suggestions are recommended for the PLB pipes being laid using the HDD technology. Apart from the depth check, the pipes continuity check is also recommended especially for the ACCESS network jobs where multiple pipes are laid.

Standard Tests:

1. Online depth and offset check of the PLB pipes. The depth can be monitored from the tracker. The accuracy of the tracker may be verified by site-in charge before the work is commenced. The depth of the pipe should be more than 2.0 Mtrs.
2. The depth of the pipe may be recorded at the Entry pit and the Exit pit of the spans under test. The depth at both the places should be more than 1.2 Mtrs.
3. The depth at atleast two coupling points are to be verified in 1 KM. The depth should be more than 1.2 Mtrs.
4. The offset of the pipe may be recorded both from the center of the road and also from the edge of the road wherever the compound wall exists (City Areas).
5. The depths of the pipes at a minimum of six continuous rods are to be verified by the T&D wing. The depth should be more than 2 Mtrs beyond 10 meters from the trailing edge of Entry pit.
6. The colours of the pipes to be recorded in case of multiple PLB laying. Different types of coloured pipes are to be used.

Protection: It is recommended that the regular depth protection standards may be applied for HDD works also.

Depth Relaxation: The depth relaxation is required at some situations. In general when HDD is used only for crossing the roads and short spans of 15 to 25 Mtrs length, due to the paucity of the road margin and due to the site conditions, the depth of 2.0 Mtrs may not be achieved. The depth also cannot be achieved at places where very old underground concrete structures, water and drainage pipes exist. It is recommended that the depth relaxation may be given by the competent authority.

Sl.No.	Depth measured at 10 mtrs from the trailing edge of the Entry Pit	Recommending Authority	Relaxing Authority
1	> or = 1.65 Mtr to 2.0 mtr	SDE In-charge	DET In-charge
2	> or = 1.5Mtr to 1.65 mtr	DET In-charge	DGM In-charge

Note:- For depth more than 165 cms rates for horizontal drilling will remain same. In case of depths being less than 1.65 Mtrs up to 1.5 mtrs, the payment of horizontal drilling will be made on prorata basis. It is hereby recommended that no pipe shall be laid by HDD method for depths less than 1.5Mtrs. Hence no protection is required for the Pipes.

8.2 Inspection and Quality Control:

8.2.1 The Quality of Works: The importance of quality of Optical Fibre Cable Construction works especially laying of multiple PLB pipes/coils using open trenching and trenchless technology method cannot be over-emphasized. The quality and availability of long distance media, efficiency of the reliable media connectivity to exchanges and success of

- new concept of overlay access network depends upon quality of laying of Optical Fibre Cable. Further, the OF cables are vulnerable to damages due to work of other agencies.
- 8.2.2 **It is imperative that the contractor(s) is/are fully conversant with the construction practices especially laying multiple pipes by trenchless technology using HDD machine and shall be fully equipped to carry out the work in accordance with the specifications.** The contractors are expected and bound to ensure quality in construction works in accordance with specifications laid down. The contractor shall engage adequate and experienced supervisors to ensure that works are carried out as per specifications and with due diligence and in a professional manner. The contractors shall satisfy himself/themselves that the work conforms to the quality specifications before offering the same to A.T. Wing for Acceptance and Testing.
- 8.2.3 An assessment of extent of interest shown by the contractors in executing the works with requisite quality shall be recorded and used in evaluating the Contractors' Performance Rating (CPR).
- 8.2.4 In addition to Acceptance Testing being carried out by A.T. Wing and supervision by Constructions Officers, all works at all times shall be open to inspection of the department. The contractors shall be bound, if called upon to do so, to offer the works for inspection without any extra payment.
- 8.2.5 **Site Order Book:** The site order book is one of the primary records to be maintained by the JTO/SDE supervising the work during the course of execution of works. The noting made by officers as well as contractors, will form as basis for operation of many contractual clauses. The contractor shall remove all the defects pointed out by the department in the Site order book. The contractor or their authorized representatives shall also be at liberty to note their difficulties etc. in these books. The site order books shall invariably be consulted at the time of making final payments to the contractor.
- 8.3 Testing and Acceptance Testing:**
- 8.3.1 The work shall be deemed to have been completed only after the same has been accepted by the A.T. Officer. The contractor shall make test pits at the locations desired by A.T. Officer for conducting test checks without any extra payment. The contractor shall restore the pits after test measurements to its original shape. The contractor shall be responsible to provide test/measurement tools and testers for conducting various tests.
- 8.3.2 **Scope of Acceptance and Testing:** The purpose of acceptance and testing is to verify integrity of measurement and quality of work done. The A.T. Officer shall not be responsible for recording of measurements for the purpose of billing and contractual obligations. However, if the measurements taking by A.T. officer are found to be lesser than the measurements recorded by the officer responsible for recording the measurements, the measurement taken by A.T. officer shall prevail without prejudice to any punitive action against the contractor as per provisions of the contract and the officer recording the measurements. The contractor shall be obligated to remove defects/deficiencies pointed out by the A.T. officer without any additional cost to the department.
- 8.3.3 **Offering the work for acceptance and testing:** The Sub Divisional Engineer responsible for construction, after having satisfied himself of completion of work ready for A.T. , shall offer the work to A.T. Officer for conducting Acceptance and Testing. The work shall be offered for A.T. as soon as part of work is complete in all respects. The work against any work order can be offered for A.T. in a number of stages.
- 8.3.4 The contractor shall provide labour, if demanded by the A/T officer for digging of test pits and other necessary infrastructure for carrying out the A/T work. No extra payment will be made for the digging of test pit

9 **WARRANTY:**

- 9.1 The contractor shall warrant that the material supplied for the work shall be new and free from all defects and faults in material, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for materials of the type ordered and shall perform in full conformity with the specifications and drawings. The contractor shall be responsible for any defects that may develop under the conditions provided by the contract and under proper use, arising from faulty materials, design or workmanship such as corrosion of the equipment, inadequate quantity of materials etc. and shall remedy such defects at his own cost when called upon to do so by the BSNL who shall state in writing in what respect the stores are faulty. This warranty shall survive inspection or payment for, and acceptance of goods, but shall expire except in respect of complaints notified prior to such date, **twelve months after the acceptance testing.**
- 9.2 If it becomes necessary for the contractor to replace or renew any defective portion/portions of the material under this clause, the provisions of the clause shall apply to the portion / portions material so replaced or renewed or until the end of the above mentioned **period of twelve months**, whichever may be later. If any defect is not remedied within a reasonable time, as prescribed by the BSNL, the BSNL may proceed to do the work at the contractor's risk and costs, but without prejudice to any other rights which the BSNL may have against the contractor in respect of such defects.
- 9.3 **The Cable joint shall be guaranteed for a period of ONE year from the date of closing of joint.** In case of failure of the joint due to poor workmanship i.e. failure of joint without external damage, within the stipulated period of guarantee the contractor shall repair the joint(s) at his own cost within 24 hours of informing him, **failing which the BSNL may carry out the repairs and penalty equivalent to five times of the approved rate of the jointing work plus the cost of materials used shall be recovered** from the contractor from his pending bill/SD or any amount due to him without prejudice to any other action as per terms and conditions of the tender. The cost of joining kit, supplied by the BSNL, so used to revive the joint shall be deducted from the final bill of the contractor pending for payment or from security if all bills have been settled.
- 9.4 Replacement under warranty clause shall be made by the contractor free of all charges at site including freight, insurance, cost of works and other incidental charges.

10 **AUDIT AND TECHNICAL EXAMINATION:**

- 10.1 BSNL shall have the right to cause an audit and technical examination of the work and the final bills of the contractor including all supporting vouchers, abstract etc. to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed by him to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over payment and it shall be lawful for BSNL to recover the same from him in the manner prescribed in clause with the heading payment of bills (same chapter), or in any other manner legally permissible and if it is found that the contractor was paid less than what was due to him under payment shall be duly paid by BSNL to the contractor.
- 10.2 Provided that BSNL shall be entitled to recover any sum overpaid, nor the contractor shall be entitled to payment of any sum paid short where such payment have been agreed upon between the Divisional Engineer or his subordinate officer on one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the **Competent Authority** or his subordinate officer.
- 10.3 Any sum of money due and payable to the contractor (including security deposit returnable to him) under this contract may be appropriated by the BSNL for the payment of a sum of money arising out or under any other contract made by the contractor with the BSNL

11 PAYMENT TERMS:

11.1 Procedure for Preparation and settlement of bills:

- 11.1.1 All items of work involved in the work order shall be completed in all respects before preparing the bills for the work against the work order. The procedure for payment of bills is enumerated as under:
- 100% full and final payment shall be processed after commissioning of complete route.
 - However, if a section(s) (***node to node**) of the route has/have been completed in all respect and acceptance tested for making it capable of being put to use, 80% payment of the work so completed shall be made as a running bill, pending 20% to be paid after commissioning of complete route.

***node implies** – Exchange/Transmission center/Broadband center/BTS site/any equipment center where OFC is terminated.

- 11.1.2 .The contractor shall prepare the final bill in triplicate after completion of the entire work entrusted against work order & acceptance and testing of all the works and submit the same to Claim Office, Circle Office, Jaipur along with required documents of work within 30 days of acceptance and testing for payment. The final bill shall be prepared for all the measurements of all items involved in execution of complete work order. The contractor shall prepare the final bill containing the following details:

- The bill for all the quantities as per Measurements at the approved rates along with Route Commissioning Certificate.
- Adjustment of amount received against running bills.

- 11.1.2.(1) The SDE in-charge of work shall run SES against the works entrusted and attach necessary certificates stating that the work has been executed satisfactorily in accordance with specifications and terms and conditions of the contract. The SDE shall verify the quantities of items of work with reference to measurements recorded in the measurement book (and also A/T reports in case of any deviations noted by A/T office). The SDE in-charge of work shall upload the below noted documents as mentioned hereunder (as applicable) :

- Bill prepared by the contractor. Invoice should be GST compliant.
- Store reconciliation statement furnishing account of stores received against the **Work Order** and returned to the designated Store godown as surplus with requisite verifications from store in-charge/SDE in-charge of work.
- Letters of grant of E.O.T(s), if work could not be completed within stipulated time.
- Six sets of bound documentation.(physical copy to Engineer in-charge and certificate of same in SES)
- **Copy of the Wage Register, Attendance Register, Monthly EPF & ESI Deposit Challan have to be submitted by the contractor along with the bills** (as applicable, all documents shall be counter signed by SDE work in-charge).
- Measurement Book.
- A/T Certificates.
- The site order Book.
- The hindrances register.
- Details of recoveries/penalties for delays, damages to Departmental/Third party properties as per provisions of the contract. In case no recovery is to be made, NIL report needs to be submitted.

- Details of empty cable drums cost which needs to be recovered from the bill.
- Certificate regarding uploading of Photos & Videos on Transnet (as applicable) and mentioned mandatory the certificate ID and Route ID in additional data Tab of SES as per BSNL HQ letter No. BSNLCO/CNP/13(12)/1/2021-CNP/696636 dated 01.08.2023 and others instructions issued time to time in this regard.

11.1.2.(2). The Divisional Engineer/ Competent Authority shall exercise the prescribed checks and may ensure the proper certification and documents uploaded for the work before approving SES.

11.1.2.(3). The Claim Office shall also scrutinize the bill to recover all the liabilities of the contractor and statutory taxes. The bill shall be passed, after necessary scrutiny by Claim Office, by the officer competent to pass the final bill.

GST shall also be applicable for any deductions or penalties imposed by BSNL.

11.2 Procedure for payment for substandard works:

11.2.1 The contractors are required to execute all works satisfactorily and in accordance with the specifications. If certain items of work are executed with unsound, imperfect or unskilled workmanship or with materials of any inferior description or that any materials or articles provided by him for execution of work are unsound or of a quality inferior to that contracted for or otherwise, not in accordance with the contract (referred to as substandard work hereinafter), the Divisional Engineer in-charge shall make a demand in writing specifying the work, materials or articles about which there is a complaint.

11.2.2 **Timely action by Site-In-charge: Timely reporting and action, to a great extent, can prevent occurrence of substandard work, which will be difficult or impossible to rectify later on. It is incumbent on the part of Site-In-charge to point out the defects in work in time during progress of the work.** The Junior Telecom Officer/Sub Divisional Engineer responsible for execution and supervision of work shall without any loss of time submit a report of occurrence of any substandard work to the Divisional Engineer in-charge besides making an entry in the site order book. A notice in respect of defective work shall be given to the contractor by Divisional Engineer in-charge in writing during the progress of work asking the contractor to rectify/replace/remove the substandard item of work and also define time period within which such rectification/removal/replacement has to be done. After expiry of the notice period, if the contractor fails to rectify/replace/remove the substandard items, the defects shall be got rectified/replaced/removed departmentally or through some other agency at the risk and cost of the contractor.

11.2.3 Non-reporting of the substandard work in time on the part of Site In charge (s) shall not in any way entitle the contractor to claim that the defects were not pointed out during execution and as such the contractor cannot be absolved of the responsibility for substandard work and associated liabilities.

11.2.4 **Authority and Procedure to accept substandard work and payment thereof:** There may be certain items of work pointed out as substandard which may be difficult to rectify and in the opinion of the Tender Issuing Authority, the items in question will not materially deteriorate the quality of service provided by the construction, Tender Issuing Authority shall appoint committee to work out the reduced rates payable to the contractor for such substandard work. The committee shall constitute one Divisional Engineer other than the one who is directly in-charge of Cable Construction involving

substandard items of work, as Chairman and one SDE and an Accounts Officer as members. The committee shall take into account the approximate cost of material/work pointed out as substandard and recommend the rates payable for substandard work which shall not exceed 60% of the approved rates of the item in question.

11.2.5 Record of substandard work: The items adjudged as substandard shall be entered into the measurement book with red ink.

11.3 No claim for delayed payment due to dispute etc: No claim for interest or damage will be entertained or be payable by the BSNL in respect of any amount or balance which may be lying with the BSNL owing to any dispute, difference or misunderstanding between the parties or in respect of any delay or omission on the part of the Engineer in charge in making intermediate or final payments or in any other respect whatsoever.

12 DISPOSAL OF EMPTY CABLE DRUMS:

12.1 The contractor shall be responsible to dispose off the empty cable drums after laying of the cable. The competent authority taking into account the prevailing market rates has fixed the cost of Optical Fibre cable drums. The cost of empty cable drums shall be deducted from the bill for the work on which the cable along with the drum has been issued or any other amount due to the contractor or from security deposit.

12.2 **Rates fixed for Optical Fibre cable drums are given in Tender Document (Qualifying Bid). The rates are fixed and there is no percentage above or below applicable on these rates.**

12.3 The contractor shall be responsible for the accounting of the cable drums issued and shall mention the number of cable drums in the bill so that the amount is deducted from the bills due.

12.4 The contractor shall not be allowed to dump the empty cable drums in Govt., public place, which may cause inconvenience to Govt. /Public. If the contractor does not dispose off the empty cable drums within 3 days of becoming empty, the BSNL is at liberty to dispose off the drum in any manner deemed fit and also recover the amount fixed in this contract for empty cable drums along with the transportation charges to be decided by the **Competent Authority** from the bill / security deposit / any other amount due to the contractor.

13. LIQUIDATED DAMAGES/PENALTY CLAUSE:

13.1 Liquidated Damages clause for Delays in the contractor's performance:

13.1.1 The time allowed for completion of the work as per work order shall be strictly adhered by the contractor and shall be deemed to be the most important aspect of the contract on the part of the contractor and shall be reckoned from Seventh day from issue of work order by the BSNL. The work shall, throughout the stipulated period of contract, be proceeded with all due diligence to achieve the desired progress uniformly, and the contractor shall pay as LD for delay in execution of the work @ 0.5 % for each week of delay or part thereof, for a period up to ten weeks and thereafter @ 0.7 % for each week of delay or part thereof for another ten weeks subject to a maximum of 12 % of the cost of the work allotted as per the **work order**.

13.1.2 On any date, if the LD payable as above, reaches 12 (twelve) percent of the cost of the work order, the competent authority reserves the right to short close the work order and get the remaining work done at the risk and cost of the contractor.

- 13.1.3 The days on which work is not done due to reasons beyond the control of contractor, such as natural calamities, law & order situation etc., will not be accounted for in imposing the LD.
- 13.1.4 LD for delay in completion of the work shall be recoverable from the bills of the contractor and/or by adjustment from the security deposit or from the bills of any other contract. However, adjustment from security deposit will be made only when the contract has been terminated or at the time of final settlement of bills on completion of work.
- 13.1.5 In case of slow progress of the work in a section which has been awarded to a particular contractor, if the public interest does not permit extension of time limit for completion of the work, then Tender Issuing Authority will have the full right to order that the scope of the contract may be restricted to such fraction of the work and get the balance work executed at the risk and cost of the contractor. The details are given in Rescission of the contract clause of the bid document. All such payments shall be recovered from the contractor's pending bills or security deposit.
- 13.1.6 The Tender Issuing Authority **reserves** the right to cancel the contract and forfeit the security deposit if the contractor fails to commence the work within 7 days after issue of the work order or as the time permitted by the competent authority.

13.2 Penalty for causing inconvenience to the Public:

- 13.2.1 To ensure progress during the execution of work and to cause minimum inconvenience to the public, he shall cause to lay cable and close such trenches expeditiously. The contractor shall not leave the trenches open for more than 24 hours at a stretch in a route at a time and should take due precautions to avoid any mishap. In case of any accident, the contractor shall be fully responsible for the same and any penalty imposed on this account by any statutory authority shall be paid by the contractor. In case of failure to pay the same by the contractor it shall be recovered from his pending payment/security deposit.
- 13.2.2 The contractor shall not be allowed to dump the empty cable drums/waste materials in Govt./public place, which may cause inconvenience to Govt./Public. If the contractor does not dispose off the empty cable drums/waste materials within 3 days of becoming empty, the BSNL is at liberty to dispose off the drum in any manner deemed fit, also recover the amount fixed in this contract for empty cable drums/waste materials from the bill/security deposit/ along with the costs incurred by the BSNL in disposing off such materials. The BSNL may also levy a penalty up to Rupees One thousand only for each such default/incident.

13.3 Penalty for cutting / damaging the old cable:

- 13.3.1.1 Penalty for cutting/damaging the old cable:
During excavation of trench utmost care is to be taken by the contractor, so that the existing underground cables are not damaged or cut. In-case any damage/cut is done to the existing cables, a penalty as per the schedule given below will be charged from the contractor or the amount will be deducted from his final bill.

Size of existing UG cable Cut /damaged	Account of penalty per cut/damage
Upto100 pairs cable	Rs 3000.00 (Three thousand)
Above 100 pairs cable & up to 400 pairs	Rs 5000.00 (Five thousand)
Above 400 pairs	Rs 10000.00 (Ten thousand)

For OF Cable Penalty for cutting/damaging will be as below:

Type of cable Cut /damaged	Charges per fault for penalty and compensation
OF Cable of any size	Rs 25000.00 (Twenty Five thousand)

Besides the above penalty, the contractor shall carry out such repairs for restoration of the damaged cable free of charge. The cost of jointing kit, shall also be borne by the contractor. If contractor fails to repair the damage, the cost of repair (including cost of Labour + Jointing kit) shall be recovered from the contractor

13.3.2 **Penalty to damage stores/materials supplied by the BSNL while laying:**

The contractor while taking delivery of materials supplied by the BSNL at the designated place shall thoroughly inspect all items before taking them over. In case of execution of the work, if any material is found damaged/working unsatisfactorily, then a penalty equivalent to the cost of material + 10% as penalty shall be recovered from the contractor's payments/securities.

However, contractor will not be penalized for any defect in workmanship of the materials, which shall be taken up separately with the supplier of the stores.

13.3.3 **Penalty to damage the underground installation of other agencies:**

While trenching, the contractor should not cause damage to any underground installations belonging to other agencies and any damage caused should be made good at his own cost and expenses.

13.3.4 **Penalty for achieving lower depth** : In no case the statutory depth of boring should be (i) less than 2 mtr. from the road / ground surface and (ii) less than 1.65 mtrs at the pits. In order to encourage the contractor to achieve required depth in the face of site constraints, the following payment schedule with penalty are to be adhered to for boring at lesser depths subject to condition that relaxation has been granted by the competent authority for lesser depths.

(i) For ground surfaces (other than pits) :

Actual Micro-tunneling (HDD) depth between	Penalty
< 2 Mtr. to > 1.50 Mtr	10% of approved rate
<1.5 Mtr	No payment. To be treated as non-standard work

(ii) For pits :

Actual Micro-tunneling (HDD) depth between	Penalty
< 1.65 Mtr. to > 1.50 Mtr	10% of approved rate
<1.5 Mtr	No payment. To be treated as non-standard work.

14 Rescission / Termination of Contract:

14.1 Circumstances for rescission of contract: Under the following conditions the Tender Issuing Authority may rescind the contract:

- (i) If the contractor commits breach of any item of terms and conditions of the contract.
- (ii) If the contractor suspends or abandons the execution of work and the engineer in-charge of the work comes to conclusion that work could not be completed by due date for completion or the contractor had already failed to complete the work by that date.
- (iii) If the contractor had been given by the officer-in-charge of work a notice in writing to rectify/replace any defective work and he/she fails to comply with the requirement within the specified period.

14.2 Upon rescission of the contract, the security deposit of the contractor shall be liable to be forfeited and shall be absolutely at the disposal of the BSNL as under:

- 14.2.1** Measurement of works executed since the date of last measurement and up to the date of rescission of contract shall be taken in the presence of the contractor or his authorized representative who shall sign the same in the MB. If the contractor or his authorized representative do not turn up for joint measurement, the measurement shall be taken by the officer authorized for this purpose after expiry of due date given for joint measurement. The measurement taken by the officer so authorized shall be final and no further request for joint measurement shall be entertained.
- 14.2.1.1** The unused material (Supplied by the BSNL) available at site, shall be transported back by the BSNL to the Telecom Store at the risk and cost of the contractor. If any such material is found damaged/lost then the penalty shall also be recovered from the contractor as per conditions in tender documents/bid.
- 14.2.2** The un-executed work shall be got executed through the qualified bidder from amongst the bidders, who participated in the bidding process, by giving them offers in their order of ranking (L2, L3...) at their quoted rates. If the work was awarded on single tender basis then the BSNL shall get the unexecuted work completed through any other contractor approved in the area of Tender Issuing Authority at the approved rates of that particular section or to execute the work departmentally, as is convenient or expedient to the BSNL at the risk and cost of the contractor. In such a event no compensation shall be payable by the BSNL to the contractor towards any inconvenience/loss that he may be subjected to as a result of such an action by the BSNL. In this regard the decision of **Tender Approving Authority (CGMT, BSNL, Rajasthan)** shall be final and binding. In all these cases, expenses which may be incurred in excess of the sum which would have been paid to the original contractor if the whole work had been executed by him shall be borne and paid by the original contractor and shall be deducted from any money due to him by the BSNL under the contract or his any other account whatsoever anywhere in the BSNL or from a security deposit.
- 14.2.3** The certificate of the Divisional Engineer in-charge of work as to the value of work done shall be final and conclusive against the contractor, provided always that action shall only be taken after giving notice in writing to the contractor.
- 14.3 Termination for Insolvency:**
- 14.3.1** The BSNL may at any time terminate the Contract by giving written notice to the Contractor, without compensation to contractor, if the contractor becomes bankrupt or otherwise insolvent as declared by the competent court provided that such termination will not prejudice or affect any right or action or remedy which has accrued or will accrue thereafter to the BSNL.
- 14.3.2 Optional Termination by BSNL (other than due default of the contractor):**
- 14.3.3** The BSNL may, at any time, at its option cancel and terminate this contract by written notice to the contractor, in which event the contractor shall be entitled to payment for the work done up to the time of such cancellation.
- 14.3.4** In the event of the termination of the contract, the contractor shall forthwith clear the site of all the contractor's materials, machinery and equipments and hand over possession of the work / operations concerned to the BSNL or as the BSNL may direct.
- 14.3.5** The BSNL may, at its option, cancel or omit the execution of one or more items of work under this contract or any part of such items without any compensation, whatsoever, to the contractor.
- 14.3.6 Issuance of Notice:**
- 14.3.7** The Divisional Engineer in-charge of work shall issue show cause notice giving details of lapses, violation of terms and conditions of the contract, wrongful delays or suspension of work or slow progress to the contractor directing the contractor to take corrective action. A definite time schedule for corrective action shall be mentioned in the show cause notice. If

the contractor fails to take corrective action within the stipulated time frame, the Divisional Engineer in-charge shall submit a draft of final notice along with a detailed report to the competent authority who had accepted the contract for approval.

14.3.8 The **final notice for rescission of contract** to the contractor shall expressly state the precise date and time from which the rescission would become effective. The following safe guards shall be taken while issuing the final notice.

- a) During the period of service of notice and its effectiveness, the contractor should not be allowed to remove from the site any material/equipment belonging to the BSNL.
- b) The contractor shall give in writing the tools and plants he would like to take away/remove from the site. Such of the materials as belong to him and which may not be required for future execution of balance work may be allowed by the Divisional Engineer in-charge of work to be removed with proper records.
- c) No new construction beneficial to the contractor shall be allowed.
- d) Adequate BSNL security arrangement in replacement of the contractor watch and ward shall be made forthwith. Expenses on this account are recoverable from the security deposit or any amount due to the contractor.

15 **INDEMNITIES :**

15.1 The contractor shall at all times hold the BSNL harmless and indemnify BSNL from and against all action, suits, proceedings, works, cost, damages, charges claim and demands of every nature and descriptions, brought or procured against the BSNL, its officers and employees and forthwith upon demand and without protest or demur to pay to the BSNL any and all losses and damages and cost (inclusive between attorney and client) and all costs incurred in endorsing this or any other indemnity or security which the BSNL may now or at any time have relative to the work or the contractors obligation or in protecting or endorsing its right in any suit on other legal proceeding, charges and expense and liabilities resulting from or incidental or in connection with injury, damages of the contractor or damage to property resulting from or arising out of or in any way connected with or incidental to the operations caused by the contract documents. In addition, the contractor shall reimburse the BSNL or pay to the BSNL forthwith on demand without protest or demur all cost, charges and expenses and losses and damages otherwise incurred by it in consequences of any claim, damages and actions which may be brought against the BSNL arising out of or incidental to or in connection with the operation covered by the contractor.

15.2 The contractor shall at his own cost at the BSNL's request defend any suit or other proceeding asserting a claim covered by this indemnity, but shall not settle, compound or compromise any suit or other finding without first consulting the BSNL.

16 **FORCE MAJEURE:**

16.1 If any time, during the continuance of this contract, the performance in whole or in part by either party or any obligation under this contract shall be prevented or delayed by reason of any war, or hostility, acts of the public enemy, civil commotion sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts or act of God (Herein after referred to as events) provided notice of happenings of any such eventuality is given by either party to the other within 21 days from the date of occurrence thereof, neither party shall by reason of such event be entitled to terminate this contract nor shall either party have any such claim for damages against the other in respect of such non-performance and work under the contract shall be resumed as soon as practicable after such event may come to an end or cease to exist, and the decision of the BSNL as to whether the work has been so resumed or not shall be final and conclusive, provided further that if the performance, in whole or part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may, at his option terminate the contract.

16.2 Provided also that if the contract is terminated under this clause, the BSNL shall be at liberty to take over from the contractor at a price to be fixed by the BSNL, which shall be final, all unused, undamaged and acceptable materials, bought out components and stores in the course of execution of the contract, in possession of the contractor at the time of such termination of such portions thereof as the BSNL may deem fit excepting such materials, bought out components and stores as the contractor may with the concurrence of the BSNL select to retain.

17 ARBITRATION :

I. ARBITRATION (Applicable in case of supply orders/Contracts with firms, other than Public Sector Enterprise) (Not applicable in cases valuing less than Rs. 5 lakhs)

Except as otherwise provided elsewhere in the contract, if any dispute, difference, question or disagreement arises between the parties hereto or their respective representatives or assignees, in connection with construction, meaning, operation, effect, interpretation of the contract or breach thereof which parties unable to settle mutually, the same shall be referred to Arbitration as provided hereunder:

(1) A party wishing to commence arbitration proceeding shall revoke Arbitration Clause by giving 60 days' notice to the designated officer of the other party. The notice invoking arbitration shall specify all the points of disputes with details of the amount claimed to be referred to arbitration at the time of invocation of arbitration and not thereafter. If the claim is in foreign currency, the claimant shall indicate its value in Indian Rupee for the purpose of constitution of the arbitral tribunal.

(2) The number of the arbitrators and the appointing authority will be as under:

Claim amount (excluding claim for counter claim, if any)	Number of arbitrator	Appointing Authority
Above Rs. 5 lakhs to Rs. 5 crores	Sole Arbitrator to be appointed from a panel of arbitrators of BSNL.	BSNL (Note: BSNL will forward a list containing names of three empanelled arbitrators to the other party for selecting from the list who will be appointed as sole arbitrator by BSNL)
Above Rs. 5 crores	3 Arbitrators	One arbitrator by each party and the 3 rd arbitrator, who shall be the presiding arbitrator, by the two arbitrators. BSNL will appoint its arbitrator from its panel.

(3) Neither party shall appoint its serving employee as arbitrator.

4. If any of the Arbitrators so appointed dies, resigns, becomes incapacitated or withdraws for any reason from the proceedings, it shall be lawful for the concerned party/arbitrators to appoint another person in his place in the same manner as aforesaid. Such person shall proceed with the reference from the stage where his predecessor had left it both parties consent for the same; otherwise, he shall proceed de novo.

5. Parties agree that neither party shall be entitled for any pre-reference or pendente-lite interest on its claims. Parties agree that any claim for such interest made by any party shall be void.

6. Unless otherwise decided by the parties, Fast Track procedure as prescribed in Section 29 B of the Arbitration Conciliation Act, 1996 and amended in 2015 for resolution of all disputes shall be followed, where the claim amount is upto Rs. 5 crores.

[29B. Fast track procedure – (1) *Notwithstanding anything contained in this Act, the parties to an arbitration agreement, may, at any stage either before or at the time of appointment of the arbitral tribunal, agree in writing to have their dispute resolved by fast track procedure specified in sub-section (3).*

(2) The parties to the arbitration agreement, while agreeing for resolution of dispute by fast track procedure, may agree that the arbitral tribunal shall consist of a sole arbitrator who shall be chosen by the parties.

(3) The arbitral tribunal shall follow the following procedure while conducting arbitration proceedings under sub-section (1):-

- (a) The arbitral tribunal shall decide the dispute on the basis of written pleadings, documents and submissions filed by the parties without oral hearing;*
- (b) The arbitral tribunal shall have power to call for any further information or clarification from the parties in addition to the pleadings and documents filed by them;*
- (c) An oral hearing may be held only, if, all the parties make a request or if the arbitral tribunal considers it necessary to have oral hearing for clarifying certain issues;*
- (d) The arbitral tribunal may dispense with any technical formalities, if an oral hearing is held, and adopt such procedure as deemed appropriate for expeditious disposal of the case.*

(4) The award under this section shall be made within a period of six months from the date the arbitral tribunal enters upon the reference.

(5) If the award is not made within the period specified in sub-section (4), the provisions of sub-sections (3) to (9) of Section 29 A shall apply to the proceedings.

(6) The fees payable to the arbitrator and the manner of payment of the fees shall be such as may be agreed between the arbitrator and the parties.]

7. The arbitral tribunal shall make and publish the award within time stipulated as under:

Amount of Claims and Counter Claims	Period for making and publishing of the award (counted from the date the arbitral tribunal enters upon the reference)
Up to Rs. 5 crores	Within 6 months (Fast Track procedure)
Above Rs. 5 crores	Within 12 months

However, the above time limit can be extended by the Arbitrator for reasons to be recorded in writing with the consent of parties and in terms of provisions of the Act.

8. In case of arbitral tribunal of 3 arbitrators, each party shall be responsible to make arrangements for the travel and stay, etc. of the arbitrator appointed by it. Claimant shall also be responsible for making arrangements for travel/stay arrangements for the Presiding Arbitrator and the expenses incurred shall be shared equally by the parties.

In case of sole arbitrator, BSNL shall make all necessary arrangements for his travel/stay and the expenses incurred shall be shared equally by the parties.

9. The Arbitration proceeding shall be held at New Delhi or Circle or SSA Headquarter (as the case may be).

10. Subject to the aforesaid conditions, provisions of the Arbitration and Conciliation Act, 1996 amended in 2015 and any statutory modifications or re-enactment thereof shall apply to the arbitration proceedings under this clause.

II. In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contracts between Central Public Sector Enterprises(CPSEs)/Port Trusts inter se and also between CPSEs and Government Department(s)/organisations(s)(excluding disputes concerning Railways, Income Tax, Customs & Excise departments). Such dispute or difference shall be taken up by either party for resolution through AMRCD as mentioned in DPE OM no. 4(1) 2013-DPE(GM)/FTS-1835 dt. 22.5.2018.

III. APPLICABLE LAW AND JURISDICTION

(a) The supply order for Goods 'or' Services, including all matters connected with this supply order shall be governed by the Indian law both substantive and procedural, for the time being in force and shall be subject to the exclusive jurisdiction of Indian Courts at the place from where the Purchase Order has been placed.

(b) Foreign companies, operating in India or entering into Joint Ventures in India, shall have to obey the law of land and there shall be no compromise or excuse for the ignorance of the Indian legal system in any way.

18 SET OFF:

Any sum of money due and payable to the supplier (including security deposit refundable to him) under this contract may be appropriated by the purchaser or the BSNL or any other person(s) contracting through the BSNL and set off the same against any claim of the Purchaser or BSNL or such other person or person(s) for payment of a sum of money arising out of this contract or under any other contract made by the supplier with the Purchaser or BSNL or such other person(s) contracting through the BSNL. In case of set off of the security deposit against any claim of the purchaser or BSNL or such other person or person(s) for payment of a sum of money arising out of this contract or under any other contract made by the supplier with the Purchaser or BSNL or such other person(s) contracting through the BSNL, the GST on such set off will be borne by the supplier. GST would not be liable on security deposit. But if supplier's security deposit is set off against any claim of the purchaser or BSNL or such other person or person(s) for payment of a sum of money arising out of this contract or under any other contract made by the supplier with the Purchaser or BSNL or such other person(s) contracting through the BSNL, then GST would be levied on such amount as being set off".

19. TAX INDEMNITY CLAUSE:

BSNL has the right to recover Input Tax Credit loss suffered by it due to any mis-declaration on invoice by the supplier.

----- END OF SECTION V -----

Section-VI E-tendering Instructions to Bidders

General

The Special Instructions (for e-Tendering) supplement 'Instruction to Bidders', as given in this Tender Document. **Submission of Online Bids is mandatory for this Tender.**

E-Tendering is a new methodology for conducting Public Procurement in a transparent and secured manner. Suppliers/ Vendors will be the biggest beneficiaries of this new system of procurement. For conducting electronic tendering, BSNL has decided to use the E tender portal (<https://etenders.gov.in>) through E- tender portal; Benefits to Suppliers are outlined on the Home-page of the e-tender portal.

Instructions

1. Tender Bidding Methodology

Sealed Bid System – 'Single Stage – TWO Envelope'

2. Broad outline of activities from Bidders prospective

1. Procure a Digital Signing Certificate (DSC)
2. Register on e- tender portal (<https://etenders.gov.in>)
3. Create Users and assign roles on E-TENDER PORTAL
4. View Notice Inviting Tender (NIT) on E TENDER PORTAL
5. Download Official Copy of Tender Documents from E-TENDER PORTAL
6. Bid-Submission on E-TENDER PORTAL
 - a) Please take care to scan documents that total size of documents to be uploaded remains minimum. If required, documents may be scanned at lower resolutions say at 150 dpi. However, it shall be sole responsibility of bidder that the uploaded documents remain legible.
 - b) Utmost care may be taken to name the files/documents to be uploaded on E-TENDER PORTAL. There should be no special character or space in the name of file. Only underscores are allowed. The illustrative examples are given below:-

File name	Allowed or not allowed in E-TENDER PORTAL	Reason for allowed / not allowed
QA Certificate	not allowed	Space in between words / characters not allowed
QA Certificate(1)	not allowed	Special characters not allowed
QA_Certificate	allowed	Under score allowed between words /characters
QA_ Certificate	allowed	Upper & lower cases allowed

- c) It is advised that **all the documents to be submitted (See clause 5 of Section VI) are kept scanned or converted to PDF format in a separate folder on your computer before starting online submission.** BOQ may be downloaded and rates may be filled appropriately. This file may also be saved in a secret folder on your computer. The names & total size of each document (Preferably below 5 MB) may be checked.

7. Attend Public Online Tender Opening Event (TOE) on E- TENDER PORTAL : Opening of Techno-commercial Part

8. View Post-TOE reports posted by BSNL on E- TENDER PORTAL.
9. Attend Public Online Tender Opening Event (TOE) on E- TENDER PORTAL: Opening of Financial-Part (Only for Technical Responsive Bidders)
10. View Post-TOE reports posted by BSNL on E- TENDER PORTAL.

For participating in this tender online, the following instructions are to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the E-TENDER PORTAL.

3. Digital Certificates

For integrity of data and its authenticity/ non-repudiation of electronic records, and be compliant with IT Act 2000, **it is necessary for each user/contractor to have a Digital Certificate (DC)**. Also referred to as Digital Signature Certificate (DSC), of Class 2 or above, issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer <http://www.cca.gov.in>].

4. Registration

To use the e-tender portal (<https://etenders.gov.in>). Vendor/Contractor need to register on the e-tender portal. The vendor should visit the home-page of the e tender portal (<https://etenders.gov.in>) and go to the e-procure link then select **Bidders Manual Kit**.

To use the Electronic Tender[®] e-tender portal (<https://etenders.gov.in>) or through the circle website portal www.rajasthan.bsnl.co.in vendor needs to register on the e-tender portal. Registration of each organization is to be done by one of its senior persons who will be the main person coordinating for the e-tendering activities. In ETS terminology, this person will be referred to as the Super User (SU) of that organization. For further details, please visit the website (e-tender portal, and click on the 'Register Me' tab on the Home Page), and follow further instructions as given on the site.

Pay Annual Registration Fee as applicable.

Note: After successful submission of Registration details and Annual Registration Fee (as applicable), please contact the company providing e-tender. Helpdesk (as given below), to get your registration accepted/activated.

eTender Helpdesk/ NIC Helpdesk	
Telephone	0120-4001002, 0120-4001005, 0120-6277787. <i>[between 10:00 hrs to 17:30 hrs on working days]</i>
E-mail ID	E-mail id of E-tendering portal and support Technical - support-eproc@nic.in Policy Related - cppp-doe@nic.in
BSNL Contact Details	
BSNL Contact Person-1	Sh. Shrawan Kumar Sharma
Telephone	9413395516 (between 10:00 to 17.30 Hrs. on working days)
Email ID	sksharma2511@gmail.com
BSNL Contact Person-2	Sh. Abhishek Chauhan
Telephone	9413395307 (between 10:00 to 17.30 Hrs. on working days)
Email ID	mmsection2@gmail.com

5. Method for submission of bid documents

In this tender the bidder has to participate in e-tender online.

5.1. Offline submission

The bidder shall submit the following documents offline to **AGM (MM) O/o CGMT, BSNL, Jaipur** on or before the date & time of submission of bids specified in NIT, in a Sealed Envelope. The envelope shall bear (tender name), the tender number and the words 'DO NOT OPEN BEFORE' (due date & time).

1. EMD-Bid Security in Original i.e. DD/Banker Cheque/Bank Guarantee /Insurance Surety Bond /proof of payment if paid through NEFT/RTGS
2. DD/ Bankers cheque against payment of tender fee /proof of payment if paid through NEFT/RTGS.
3. Power of attorney in accordance with clause available in tender.
4. MSE registration certificate if the bidder is claiming concession for Bid cost and Bid security.
5. Pass Phrase to open the tender document, if applicable.

5.2 Online submission.

Contents of first Envelope, i.e. Techno Commercial Envelope (Qualifying Bid)
1. Scanned copy of the duly filled and signed Bid Form, Section-II of the tender document.
2. Scanned copy of the duly filled and signed Tenderer's Profile, Section-III of the tender document.
3. Scanned Copy of receipt/Demand Draft /Bankers Cheque/BG proof for on line payment of requisite value towards the price of tender document as per NIT or Fee OR exemption document i.e. valid MSE Certificate duly issued by NSIC/MSME (if applicable).
4. Scanned Copy of receipt/Demand Draft /Bankers Cheque/BG/ Insurance surety bond proof for on line payment of Bid Security/EMD value towards the price of tender document as per NIT document OR i.e. valid MSE Certificate duly issued by NSIC/MSME (if applicable).
5. Scanned copy of PAN card
6. Scanned copy of the valid EPF Registration Certificate.
7. Scanned copy of the valid ESI Registration Certificate.
8. Scanned copy of the valid GSTIN Registration Certificate.
9. Scanned copy of Solvency certificate from the banker of the tenderer: For works costing up to Rs. 20 lakhs-solvency certificate should be of Rs. 5 lakhs; For works costing more than 20 lakhs-solvency certificate should be of Rs. 10 lakhs. The solvency certificate shall not be older than 3 months from the date of issue of NIT.
10. Scanned copy of the Financial turnover as per NIT duly audited by CA. UDIN must be verified on certificates issued by Chartered Accountants and Experience Certificate(s) as per NIT in the prescribed pro-forma (Annexure-B).
11. Scanned copy of Documents in support of registration of the Company/Firm/Proprietorship: <ul style="list-style-type: none">➤ The registration of the firm, authenticated copy of partnership deed in cases of partnership firm.➤ Attested copy of Articles of Association duly registered with Registrar of Company affairs, in case of Limited/Pvt. Limited Company.➤ Duly executed Affidavit, stating that tenderer is the sole proprietor of the firm or any document issued by the taxation authorities stating that tenderer is the sole proprietor of the firm, in case of proprietorship firm.

12. Scanned copy of Registered Power of Attorney (duly registered with sub registrar)/Resolution of Board of Directors, authorizing individual(s)including the person with whose DSC the tender is submitted on e-tendering portal (if and as applicable).
13. Signed tender document on each and every page without any alternation/ digitally uploaded in PDF format with digital signature of the authorized signatory on the document without any alternation
14. Scanned copy of No Near relative certificate(s) in the prescribed pro-forma as per Annexure-A.
15. Scanned copy of duly completed Declaration about Genuineness of Documents/Certificates as per Annexure-C.
16. Scanned copy of MSE certificate in case bidder is an MSE bidder
17. A self-declaration on company letter head that the bidder is not black listed by GST/ BSNL/ MTNL/ TCIL/ ITI/ Rites/ HCL/ PGCIL/ Rail Tel/ any other Govt. (Central/ State) undertaking/ licensed private telecom service provider authorities in the prescribed pro-forma as per Annexure-F.
18. Certificate(s) w.r.t. Rule 144 (xi) to GFR 2017 in the prescribed pro-forma as per Annexure-D.
19. Certificate w.r.t. MII/Local Content for Telecom Product, Services or Works as per Annexure-E.
20. Any other document mentioned in Bid document, addendum, corrigendum (if any).

Contents of second envelope i.e. Financial Envelope
Schedule for Quoting the Rates(i.e. Section XX)

Note:

- (i) If some document is not applicable for the bidder then he has to upload scanned copy of paper mentioning ‘The document <name> called vide clause _____ is not applicable on us.
- (ii) If document asked for contains more than one page then all those pages may be uploaded in one PDF file.

6. Price Schedule /Schedule of Quoting Rates

Utmost care may kindly be taken to upload price schedule / Schedule of Quoting Rates. Any change in the format of Price Schedule / Schedule of Quoting Rates file shall render it unfit for bidding. Following steps may be followed-

1. Down load Price Schedule / Schedule of Quoting Rates.
2. Fill rates in down loaded Price Schedule / Schedule of Quoting Rates
3. Save filled copy of downloaded price schedule / Schedule of Quoting Rates file in your computer and remember its name & location for uploading correct file (duly filled in) when required.

For further instructions, the vendor should visit the home-page of the e tender portal (<https://etenders.gov.in>), and go to the **Bidders Manual Kit**. The compatible support software (PDF Converter, Java, etc) for online bid submission may be downloaded from E-tender portal or anywhere else.

The help information provided through ‘E- TENDER PORTAL User-Guidance Center’ is available in three categories – Users intending to Register / First-Time Users, Logged-in users of Buyer organizations, and Logged-in users of Supplier organizations. Various links are provided under each of the three categories.

Important

Note: It is strongly recommended that all authorized users of Supplier organizations should thoroughly peruse the information provided under the relevant links, and take appropriate action. This will prevent hiccups, and minimize teething problems during the use of E-TENDER PORTAL.

Note: The special instructions to contractors/Bidders for e-submission of bids online through <https://etenders.gov.in> which are mentioned below for ready reference-

1. Bidder should do the registration in the tender site <https://etenders.gov.in> using the option available. Then the Digital Signature registration has to be done with the e-token, after logging into the site. The e-token may be obtained from one of the authorized Certifying Authorities such as NIC Certifying Authority (NICCA)/MTNL/SIFY/TCS / nCode/eMudhra.
2. Bidder then login to the site thro' giving user id / password chosen during registration.
3. The e-token that is registered should be used by the bidder and should not be misused by others.
4. The Bidders can upload well in advance, the documents such as certificates, purchase order details etc., under **My Documents** option and these can be selected as per tender requirements and then send along with bid documents during bid submission.
5. After downloading/getting the tender schedules, the Bidder should go through them carefully and then submit the documents as asked, otherwise, the bid will be rejected.
6. If there are any clarifications, this may be obtained online thro' the tender site, or thro' the contact details. Bidder should take into account of the corrigendum published before submitting the bids online.
7. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender schedule and they should be in PDF/xls/rar/dwf formats. If there is more than one document, they can be clubbed together.
8. The bidder reads the terms & conditions and accepts the same to proceed further to submit the bids.
9. The bidder has to submit the tender document online well in advance before the prescribed time to avoid any delay or problem during the submission process.
10. After the bid submission, the acknowledgement number, given by the e-tendering system should be printed by the bidder and kept as a record of evidence for online submission of bid for the particular tender.
11. The **Tender Approving Authority / (TIA)** will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders.
12. The bidder should see that the bid documents submitted should be free from virus and if the documents could not be opened, due to virus, during tender opening, the bid is liable to be rejected
13. The time settings fixed in the server side & displayed at the top of the tender site, will be valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system. The bidders should follow this time during bid submission.
14. All the data being entered by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered will not viewable by unauthorized persons during bid submission & not be viewable by any one until the time of bid opening. Overall, the submitted tender documents become readable only after the tender opening by the authorized individual.
15. The confidentiality of the bids is maintained since the secured Socket Layer 128 bit encryption technology is used. Data storage encryption of sensitive fields is done.
16. The bidders are requested to submit the bids through online e-tendering system to the TIA well before the bid submission end date & time (**as per Server System Clock**).

17. The bidder should logout of the tendering system using the normal logout option available at the top right hand corner and not by selecting the (X) option in the browser.

For any other queries, the bidders are asked to contact through

Mail : email id of the e tender portal service provider: cPPP-nic@nic.in

7. Key Instructions for Bidders

The following '**FOUR KEY INSTRUCTIONS for BIDDERS**' must be assiduously adhered to

1. Obtain individual Digital Signing Certificate (DSC or DC) well in advance of your first tender submission deadline on E-TENDER PORTAL.
2. Register your organization on E-TENDER PORTAL well in advance of your first tender submission deadline on E- TENDER PORTAL.
3. Get your organization's concerned executives trained on E- TENDER PORTAL using online training module well in advance of your tender submission deadline on E- TENDER PORTAL.
4. Submit your bids well in advance of tender submission deadline on E- TENDER PORTAL. as there could be last minute problems due to internet timeout, breakdown, etc.

(BSNL should not be responsible for any problem arising out of internet connectivity issues).

While the first three instructions mentioned above are especially relevant to first-time users of E-TENDER PORTAL, the fourth instruction is relevant at all times.

8. Minimum Requirements at Bidders end

- Computer System with good configuration (Min P IV, 1 GB RAM, Windows XP)
- 2 Mbps Broadband connectivity with UPS.
- Microsoft Internet Explorer 6.0 or above
- Digital Certificate(s) for users.

----- END OF SECTION VI -----

SECTION VII

SPECIAL CONDITIONS OF THE CONTRACT

1. GENERAL :

- 1.1 The work shall be accepted only after Acceptance Testing carried out by BSNL team, designated by the BSNL, as per prescribed schedule and work/material passing the test successfully.
- 1.2 The BSNL reserves the right to disqualify such bidders who have a record of not meeting contractual obligations against earlier contracts entered into with the BSNL.
- 1.3 The BSNL reserves the right to black list a bidder for a suitable period in case he fails to honour his bid without sufficient grounds.
- 1.4 The BSNL reserves the right to counter offer price(s) against price(s) quoted by any bidder.
- 1.5 Any clarification issued by BSNL, in response to query raised by prospective bidders shall form an integral part of bid documents and it may amount to amendment of relevant clauses of the bid documents.
- 1.6 Tender will be evaluated as a single package of all the items given in the price schedule.
- 1.7 All work to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Divisional Engineer or Site Engineer in-charge of work site who shall be entitled to direct at what point or points and what manner they are to be commenced.
- 1.8 The work in each section may be split up between two or more contractors or accept any tender in part and not entirely if considered expedient by the Tender Approving Authority.
- 1.9 If the contractor shall desire an extension of time for completion of the work on the grounds of unavoidable hindrance in execution of work or any other ground he shall apply in writing to the Divisional Engineer on the same day of occurrence of hindrance on account of which he desires such extension as aforesaid. In this regard the decision of **Tender Approving Authority** shall be final.
- 1.10 If at any time after the commencement of the work, the BSNL may feel that execution of whole or part of work, as specified in the tender is not required to be carried out, then the BSNL shall give notice in writing of the fact to the contractor who shall have no claim to any payment of compensation whatsoever on account of any profit or advantage which he might have derived in consequence of the full amount of the work not having been carried out neither shall he have any claim for compensation by reason of any alterations having been made in the original specifications, drawings, designs and instructions which shall involve any curtailment of the work as originally contemplated.
- 1.11 Whenever any claims against the contractor for the payment of a sum of money arises out of or under the contract, the BSNL shall be entitled to recover such sum by appropriating in part or whole of the security deposit of the contractor, and to sell any Government promissory notes etc., forming the whole or part of such security or Final bill pending against any contract with the BSNL. In the event of the security being insufficient or if no security has been taken from the contractor, then the balance or the total sum recoverable as the case may be, shall be deducted from any sum then due or which at any time thereafter may become due to the contractor under this or any other contract with BSNL. Should this sum be not sufficient to cover the full amount recoverable the contractor shall pay to BSNL on demand the balance remaining due.
- 1.12 No official of Gazetted rank or other Gazetted officer employed in Engineering or administrative duties in an Engineering Department or any other Department of the Government of India is allowed to work as a contractor for a period of two years after his

retirement from Government service without the previous permission of Government of India. This contract is liable to be cancelled if either the contractor or any of his employee is found at any time to be such a person who had not obtained the permission of Government of India as aforesaid before submission of the engagement in the contractor's service as the case may be.

- 1.13 In the event of the contractor being adjudged insolvent or going voluntarily into liquidation of having received order or other order insolvency act made against him or in the case of company, of the passing of any resolution, or making of any order for winding up whether voluntarily or otherwise, or in the event of the contractor failing to comply with any of the conditions herein specified, the **Tender Approving Authority** shall have the power to terminate the contract without any notice.
- 1.14 Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the **Tender Approving Authority** on behalf of the BSNL can terminate the contract without compensation to the contractor. However, **Tender Approving Authority**, at his discretion may permit contractor's heirs to perform the duties or engagements of the contractor under the contract, in case of his death. In this regard the decision of **Tender Approving Authority** shall be the final.
- 1.15 In the event of the contractor, winding up his company on account of transfer or merger of his company with any other, the contractor shall make it one of the terms and stipulations of the contract for the transfer of his properties and business, that such other person or company, shall continue to perform the duties or engagement of the contractor under this contract and be subject to his liabilities there under.
- 1.16 **Interpretation of the contract document:**
- 1.16.1 The representative of **Tender Approving Authority** and the contractor shall in so far as possible by mutual consultation, try to decide upon the meaning and intent of the contract document. In case of disagreement, the matter shall be referred to the Competent Authority whose decision shall be final. Any change in the contract documents shall be set forth in writing by the representative of the parties hereto. It shall be the contractor's responsibility to thoroughly familiarize all of his supervisory personnel with the contents of all the contract documents.

1.2 **Notification:**

- 1.2.1 The contractor shall give in writing to the proper person or authority with a copy to the Divisional Engineer such notification as may be mandatory or necessary in connection with the commencement, suspension, resumption, performance and / or completion of the contracted work. All notice shall be given sufficiently in advance of the proposed operation to permit proper co-relation of activities and the contractor shall keep all proper persons to authorities involved and advised of the progress of operations throughout the performance of the work and/or with such other information and /or supporting figure and data as may from time to time as directed or required.

1.3 **Shut down on account of weather conditions:**

- 1.3.1 The contractor shall not be entitled to any compensation whatsoever by reason of suspension of the whole or any part of the work made necessary by the BSNL or deemed advisable on account of bad weather conditions or other Force majeure conditions.

2. **STORES SUPPLIED BY THE BSNL:**

At no point of time the contractor shall be issued stores of value more than the contractor's material security as per clause number 5 (i) of Section V. If at all, the work requires more amount of materials to be issued to the contractor, then the material security shall

correspondingly be enhanced to an amount equal to cost of the material/stores to be issued before the issue of the store and the contractor will not have any objection to it.

The contractor shall transport (including loading and unloading) all stores issued to him from District Telecom Store, to the site of work at his own cost. The BSNL shall not pay any transportation charges to the contractor.

All materials supplied to the contractor by the BSNL shall remain the absolute property of BSNL and shall not be removed from site of the work except for use in the work and shall be at all times open to inspection by the Representative of Tender Issuing Authority. In case the materials like cable and accessories are taken delivery of by the contractor and stored at the site office/store of the contractor such site office / store will also be treated "as site" for this purpose. Any such material remaining unused at the time of the abandonment, completion or determination of the contract shall be returned to the BSNL at a place informed to him by the BSNL, failing which the cost of the unused materials shall be deducted from the contractor's material security or any of his pending bills or from any other security.

The contractor shall be responsible for the transportation of store, storage and safe custody of all material supplied to him by the BSNL, which is in the contractor's custody whether, or not installed in the work. The contractor shall satisfy himself regularly about the quantity and quality of the materials supplied to him and he will be responsible for any subsequent deterioration and discrepancy (inclusive of theft) in the quantity/ quality of the materials.

The contractor shall submit a proper account every month of all the materials supplied to him by the BSNL and those consumed for items of work. Any discrepancy of difference between the materials issued to the contractor and those consumed in the work as per the "BSNL's calculation" (which shall be final) will be charged to the contractor or deducted from his bills at 1.5 times of prevailing standard price including freight, handling charges, storage charges etc.

The contractor shall ensure that only the required materials are issued to him. Upon completion of work, the contractor shall return to the BSNL. at the later designated store in good condition, free of charges, any unused materials that were supplied by the BSNL.

EASEMENTS, PERMITS, LICENCE AND OTHER FACILITIES:

The contractor shall obtain/provide at his own cost all easements, permits and license necessary to do its work e.g.

- A) "Right of User" easements and permits.
- B) Railway and Highway crossing permits including bridge.
- C) Canal / Stream crossing permits.

The successful bidder will be required to prepare route diagram in required format as asked by RoW authorities free of cost and shall be responsible for obtaining "Right of User" easements & permits (RoW permission). But, tendering authority shall make necessary payments towards RoW charges.

The contractor shall be fully responsible for angling and obtaining all necessary easements, permits and licenses, for moving all construction equipment, tools, supplied materials and men across Railways and Highways, across public or private road as well as premises of any public utility within the right of user and for bearing all costs that may be incurred in respect of the same.

The contractor is to confine his operation to the provided construction "Right of User" unless it has made other arrangement with the particular property owners and / or tenants

such other arrangements shall be entirely at the responsibility of the contractor as to cost and arrangement as also breach and claim and shall be entitled with a copy to the Divisional Engineer.

The contractor will not be entitled to extra compensation for hardship and increase in cost by the cable trench being routed adjacent to or across other pipeline, Highways, Railways, telephones or power poles and wires or guy wires, embankments, cliffs, streams or other obstacles which may physically or otherwise in any manner, restrict or limit the use of the construction "Right of User". Such construction and such contingency shall be deemed to have been provided for in the rates.

At location where the OF cable trench is routed across or along railways or roads the contractor shall without extra cost provide and maintain such detours and road controls as are required by the railways or government or local agencies having jurisdiction.

Due to any reason, if above mentioned permits etc. could not be arranged in time then the extension of time limit shall be provided as per EOT clause given in tender document.

3. QUALITY OF WORK:

The BSNL shall be the final judge of the quality of the work and the satisfaction of the BSNL in respect thereof set forth in the contract documents. Laxity or failure to enforce compliance with the contract documents by the BSNL and / or its representative shall not manifest a change or intent of waiver, the intention being that, notwithstanding the same, the contractor shall be and remain responsible for complete and proper compliance with the contract documents and the specification therein. The representative of Tender Issuing Authority has the right to prohibit the use of men and any tools, materials and equipment which in his opinion do not produce work or performance to meet the requirement of the contract documents.

4. TAXES AND DUTIES :

Contractor shall pay all rates, levies, fees royalties, taxes and duties payable or arising from out of, by virtue of or in connection with and/or incidental to the contract or any of the obligations of the parties in terms of the contract documents and / or in respect of the works or operations or any part thereof to be performed by the contractor and the contractor shall indemnify and keep indemnified the BSNL from and against the same or any default by the contractor in the payment thereof. However, service tax (GST) shall be paid extra by BSNL as applicable.

5. PROTECTION OF LIFE AND PROPERTY AND EXISTING FACILITIES:

The contractor is fully responsible for taking all possible safety precaution during preparation for and actual performance of the works and for keeping the construction site in a reasonable safe condition. The contractor shall protect all life and property from damage or losses resulting from his construction operations and shall minimize the disturbance and inconvenience to the public.

If the excavation of trench alters the contours of the ground around road and highway crossing in such locations become dangerous to traffic, the contractor shall at his own cost, take all necessary precautions to protect public and shall comply with all the BSNL regulations as to placing of warning boards (Minimum size 3' x 2'), traffic signals, barricades, flags etc. at such location. If the contractor does not put the warning signal as per above directions, then a penalty of Rs. 500/- per day shall be levied on the contractor, till the directions are complied by the contractor. The contractor shall take due precautions to avoid

damages to other pipe lines, water, mains, sewers, telephones, telegraphs and power conduits, laid wires poles and guy wires, railways, highways, bridges or other underground or above ground structure and/or property crossing or adjacent to the cable trench being excavated.

Attention of the contractor is drawn to the rules regarding laying of cables at road crossing, along Railways Bridges, Highways safety precautions while working in Public Street. The contractor in writing shall obtain the detailed engineering instructions from the Divisional Engineer of the area.

The contractor shall be solely responsible for location through approved non-destructive means and ensuring the safety of all existing underground pipeline, electrical cables, and or other structures.

The contractor shall be solely liable for all expense for and in respect of repairs and / or damage occasioned by injury of or damage to such underground and above structures or other properties and under take to indemnify the BSNL from and against all actions, cause of actions, damages, claims and demands what-so-ever, either in law or in equity and all losses and damages and costs (inclusive between attorney and client), charges and expenses in connection therewith and / or incidental thereto. The contractor shall take all responsibilities and risks in crossing other pipelines and cables and shall be responsible for protecting all such existing pipelines, poles, electric lines, sewers, cables or other facilities from damage by the contractor's operation in connection with the work. The contractor without cost of the BSNL shall promptly repair any damage incurred.

The current market value of any commodities lost as a result of any damage to the aforesaid existing facilities shall be paid by the contractor together with such additional sums necessary to absolve the personal of property damages, resulting there from.

6. LABOUR WELFARE MEASURES AND WORKMAN COMPENSATION:

6.1 Obtaining License before commencement of work:

The contractor shall obtain a valid labour license under the Contract Labour (R&A) Act 1970 and the Contract Labour (Regulation and Abolition) Central Rules 1971, before commencement of the work, and continue to have a valid license until the completion of work. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act 1986. Any failure to fulfill this requirement shall attract the penal provisions of this contract arising out of the resultant non-execution of work.

6.2 Contractors Labour Regulations:

6.2.1 Working hours:

Normally working hours of an employee should not exceed 9 hours a day. The working day shall be so arranged that inclusive of interval for rest, if any, it shall not spread over more than 12 hours on any day.

When a worker is made to work for more than 9 hours on any day or for more than 48 hours in any week he shall be paid over time for the extra hours put in by him.

Every worker shall be given a weekly holiday normally on a Sunday, in accordance with the provisions of Minimum Wages (Central) Rules 1960, as amended from time to time, irrespective of whether such worker is governed by the Minimum Wages Act or not.

Where the minimum wages prescribed by the Government, under the Minimum Wages Act, are not inclusive of the wages for the weekly day of rest, the worker shall be entitled to rest day wages, at the rate applicable to the next preceding day, provided he has worked under the same contractor for a continuous period of not less than 6 days.

Where a contractor is permitted by the Engineer-in-charge to allow a worker to work on a normal weekly holiday, he shall grant a substituted holiday to him for the whole day, on one of the five days, immediately before or after the normal weekly holiday, and pay wages to such worker for the work performed on the normal weekly holiday at the overtime rate.

6.2.2 Display of Notice Regarding Wages Etc.

The contractor shall, before he commences his work on contract, display and correctly maintain and continue to display and correctly maintain, in a clear and legible condition in conspicuous places on the work, notices in English and in local Indian languages spoken by the majority of the workers, giving the minimum rates of the wages fixed under **Minimum Wages Act 1948**, the actual wages being paid, the hours of work for which such wage are earned, wages periods, dates of payments of wages and other relevant information.

6.2.3 Payment of Wages;

The contractor shall fix wage periods in respect of which wages shall be payable.

No wage period shall exceed one month.

The wages of every person employed as contract labour in an establishment or by a contractor, where less than one thousand such persons are employed, shall be paid before the expiry of seventh day and in other cases before the expiry of tenth day after the last day of the wage period in respect of which the wages are payable.

Where the employment of any worker is terminated by or on behalf of the contractor, the wages earned by him shall be paid before the expiry of the second working day from the date on which his employment is terminated.

All payment of wages shall be made on a working day at the work premises and during the working time and on a date notified in advance and in case the work is completed before the expiry of the wage period, final payment shall be made within 48 hours of the last working day.

Wages due to every worker shall be paid to him direct or to other person authorized by him in this behalf. The payment to the contract workers is to be paid through Account payee cheque or online in the presence of authorized representative of BSNL.

Wages shall be paid without any deductions of any kind except those specified by the Central Government by general or special order in this behalf or permissible under the Payment of Wages Act, 1936.

The contractor /bidders /supplier shall comply with all the applicable labour laws, inter alia, the provisions of the **“Payment of Wages Act 1936, and the Minimum Wages Act 1948** or the modifications thereof or any other laws relating thereto and the rules made there under from time to time.

A notice showing the wages period and the place and time of disbursement of wages shall be displayed at the place of work and a copy sent by the contractor to the Engineer-in-charge under acknowledgement.

The contractor shall obtain from the site Engineer or any other authorized representative of the Engineer-in-charge, as the case may be, a certificate under his signature at the end of the entries in the “Register of Wages” or the “Wage-cum-Muster Roll”, as the case may be, in the following form:-

“Certified that the amount shown in the column No.....has been paid to the workman concerned in my presence on.....at.....”

6.2.4 Fines and deductions which may be made from wages

6.2.4.1 The wages of a worker shall be paid to him without any deduction of any kind except the following:-

- a) Fines
- b) Deductions for absence from duty i.e. from the place or the places where by the terms of his employment he is required to work. The amount of deduction shall be in proportion to the period for which he was absent.
- c) Deductions for damage to or loss of goods expressly entrusted to the employed person for custody, or for loss of money or any other deductions which he is required to account, where such damage or loss is directly attributable to his neglect or default,
- d) Deduction for recovery of advances or for adjustment of overpayment of wages, advances granted shall be entered in a register.
- e) Any other deductions, which the Central Government may from time to time, allow.

6.2.4.2 No fines should be imposed on any worker save in respect of such acts and omissions on his part as have been approved of by the Labour Commissioner.

6.2.4.3 No fine shall be imposed on a worker and no deduction for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fines or deductions.

6.2.4.4 Every fine shall be deemed to have been imposed on the day of the act or omission in respect of which it was imposed.

6.2.5 Labour records

The contractor shall maintain a **Register of Persons employed** on work on contract in Form XIII of the Contract Labour (R&A) Central Rules 1971.

The contractor shall maintain a **Muster Roll** register in respect of all workmen employed by him on the work under Contract in Form XVI of the CL (R&A) Rules 1971.

The contractor shall maintain a **Wage Register** in respect of all workmen employed by him on the work under contract in Form XVII of the CL (R&A) Rules 1971.

6.2.6 Register of accidents – The contractor shall maintain a register of accidents in such form as may be convenient at the work place but the same shall include the following particulars:

- a) Full particulars of the labourers who met with accident.
- b) Rate of wages.
- c) Sex
- d) Age
- e) Nature of accident and cause of accident
- f) Time and date of accident
- g) Date and time when admitted in hospital
- h) Date of discharge from the hospital
- i) Period of treatment and result of treatment
- j) Percentage of loss of earning capacity and disability as assessed by Medical Officer.
- k) Claim required to be paid under Workmen's Compensation Act.
- l) Date of payment of compensation.
- m) Amount paid with details of the person to whom the same was paid.
- n) Authority by whom the compensation was assessed.
- o) Remarks

The contractor shall maintain a Register of Fines in the Form XII of the CL (R&A) Rules-1971.

The Contractor shall display in a good condition and in a conspicuous place of work the approved list of acts and omission for which fines can be imposed.

The contractor shall maintain a Register of deductions for damage or loss in form XX of the CL (R&A) Rules 1971.

The contractor shall maintain a Register of Advances in Form XXIII of the CL (R&A) Rules 1971.

The contractor shall maintain a Register of Overtime in Form XXIII of the CL (R&A) Rules 1971.

The contractor shall deposit EPF and ESI subscription to concerned authorities of the person employed by him as per provision of EPF and ESI Acts and maintain the necessary records as per the requirement under EPF & ESI rules.

6.2.7 Attendance card-cum wage slip

The contractor shall issue an Attendance card cum wage slip to each workman employed by him.

The card shall be valid for each wage period. The contractor shall mark the attendance of each workman on the card twice each day, once at the commencement of the day and again after the rest interval, before he actually starts work. The card shall remain in possession of the worker during the wage period under reference. The contractor shall complete the wage slip portion on the reverse of the card at least a day prior to the disbursement of wages in respect of the wage period under reference. The contractor shall obtain the signature or thumb impression of the worker on the wage slip at the time of disbursement of wages and retain the card with him.

6.2.8 Employment card

The contractor shall issue an Employment Card in the Form XIV of CL (R&A) Central Rules 1971 to each worker within three days of the employment of the worker.

6.2.9 Service certificate

On termination of employment for any reason whatsoever the contractor shall issue to the workman whose services have been terminated, a Service Certificate in the Form XV of the CL (R&A) Central Rules 1971.

6.2.10 Preservation of labour records

The Labour records and records of Fines and deductions shall be preserved in original for a period of three years from the date of last entries made in them and shall be made available for inspection by the Engineer-in-charge or Labour Officer or any other officers authorized by the BSNL in this behalf.

6.3 Power of labour officer to make investigations or enquiry

The labour officer or any person authorized by the Central Government on their behalf shall have power to make enquiries with a view to ascertaining and enforcing due and proper observance of Fair Wage Clauses and provisions of these Regulations. He shall investigate into any complaint regarding the default made by the contractor in regard to such provision.

6.4 Report of Investigating officer and action thereon

The Labour Officer or other persons authorized as aforesaid shall submit a report of result of his investigation or enquiry to the Engineer in-charge indicating the extent, if any, to which the default has been committed with a note that necessary deductions from the contractor's bill be made and the wages and other dues be paid to the labourers concerned. The Engineer in-charge shall arrange payments to the labour concerned within 45 days from the receipt of the report from the Labour Officer or the authorized officer as the case may be.

6.5 Inspection of Books and Slips

The contractor shall allow inspection of all the prescribed labour records to any of his workers or to his agent at a convenient time and place after due notice is received or to the Labour Officer or any other person, authorized by the Central Government on his behalf.

6.6 Submission of Returns

The contractor shall submit periodical returns as may be specified from time to time.

6.7 Amendments

The Central Government may from time to time add to or amend the regulations and on any question as to the application / interpretation or effect of those regulations.

7.0 INSURANCE :

7.1 Without limiting any of his other obligations or liabilities, the contractor shall at his own expense, take and keep comprehensive insurance including third party risk for the plant, machinery, men, materials etc. brought to the site and for all the work during the execution. The contractor shall also take out workmen's compensations insurance as required by law and undertake to indemnify and keep indemnified the BSNL from and against all manner of claims and demands and losses and damages and cost (including between attorney and client) charges and expenses that may arise in regard to same or that the BSNL may suffer or incur with respect to and / or incidental to the same. The contractor shall have to furnish originals and /or attested copies as required by the BSNL of the policies of insurance taken within 15 (fifteen) days of being called upon to do so together with all premium receipts and other papers related thereto which the department may require.

8. COMPLIANCE WITH LAWS AND REGULATION :

8.1 During the performance of the works the contractor shall at his own cost and initiative fully comply with all applicable laws of the land and with any and all applicable by-laws rules, regulations and orders and any other provisions having the force of law made or promulgated or deemed to be made or promulgated by the Government, Governmental agency or BSNL, municipal board, Government of other regulatory or Authorized body or persons and shall provide all certificates of compliance therewith as may be required by such applicable law, By-laws, Rules, Regulations, orders and / or provisions. The contractor shall assume full responsibility for the payment of all contributions and payroll taxes, as to its employees, servants or agents engaged in the performance of the work specified in the contractor documents. If the contractor shall require any assignee or sub-contractor to share any portion of the work to be performed hereunder, the same may be assigned, sub-leased or sub-contracted to comply with the provisions of the clause and in this connection the contractor agrees as to undertake to save and hold the BSNL harmless and indemnified from and against any/all penalties, actions, suits, losses and damages, claims and demands and costs (inclusive between attorney and client) charges and expenses whatsoever arising out or occasioned, indirectly or directly, by failure of the contractor or any assignee or sub-contractor to make full and proper compliance with the said by-laws, Rules, Regulations, Laws and Order and provisions as aforesaid.

8.2 The contractor shall also comply with the rule and regulation of EPF & ESI as per government rule and regulation from time to time at his own cost and expenses. The contractor shall indemnify the BSNL from any act or action in future or during the course of work in this regards at his own cost and expense. Tender Issuing Authority reserves the right to withhold the contractor amount upto 25% of tender value from the bills of contractor/security deposit in case of non-compliance of these rule and regulation by the contractor.

9. TOOLS AND PLANTS

The contractor shall provide at his own cost all tools, plants appliances, implements, measuring instruments etc. required for proper execution of works. The contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of setting out works, counting, weighing and assisting the measurements for examination at any time and from time to time. The contractor shall be responsible to make all arrangements, at his own cost for dewatering of trenches / ducts and de-gasification of the ducts before carrying out the work. The contractor shall also be responsible to make arrangements at his own cost, for water required for carrying of works at sites including curing of CC/RCC works, failing which the same may be provided by the Engineer-in-charge at the expense of the contractor and the expenses shall be deducted from any money due to the contractor under this contract or otherwise.

----- END OF SECTION VII -----

SECTION-VIII

IMPORTANT INSTRUCTIONS

1. After the work commences the contractor or his authorized representative(s) shall be present at the site. The representative shall be authorized by the Divisional Engineer incharge based on the contractor's request.
2. Work shall be recorded in the site register by the site Engineer. The contractor or his authorized representative shall sign in the site register held by the site Engineer.
3. If the contractor does not provide the barricades, warning cones, warning tapes and work notice board, 5% additional penalty shall be levied. The same shall be provided by BSNL and 150% of the cost of the items shall be recovered from the contractor.
4. Due to underground utilities, if the manhole cannot be constructed at the site shown, the decision of the site engineer shall be final and binding on the contractor. If it is decided to shift the manhole within the neighborhood, the contractor shall construct at the place shown by the site engineer.
5. The right of way (RoW) shall be obtained by the successful contractor on behalf of BSNL, including various permission from authorities like water, power, utilities, traffic police .The RoW charges shall be paid by BSNL. The work shall be carried out as per terms and conditions and timelines mentioned in the RoW permission. The contractor shall deploy adequate men and machine so as to complete the work within permitted time.
6. If the work is not progressing as per the schedule, the work may be either restricted or terminated.
7. After the ducts are laid by either Open trenching method or by HDD, the duct integrity test shall be carried out by the contractor on the next day. This is to facilitate the Manhole contractor to commence the manhole work.
8. If any one or more number of ducts is found to fail the duct integrity test, additional laying/ HDD of pipe/s shall be carried out by the contractor at no extra cost. The cost of the damaged pipe(s) shall be recovered from the contractor with additional 17.5% towards Overhead charges.
9. After the re-laying of additional pipe(s), duct integrity test shall be performed in the failed segment, on all the ducts once again.
10. After the ducts are laid by either Open trenching method or by HDD, if duct integrity test is not carried out by the contractor, the test shall be carried out by BSNL and only 50% of the actual payment shall be made to the contractor for PLB pipe laying.
11. For any unfinished work BSNL shall not effect any payment.
12. The material abandoned shall be the property of BSNL. No claim in this regard from the contractor shall be entertained.
13. Rate should be quoted in figures as well as in words and corrections should be attested, otherwise tender shall be rejected.

14. The contractor shall restore the cut portions of BT/Concrete roads to their original conditions immediately on completion of the pipe laying works. If the restoration work is not satisfactory with reference to the standards prescribed by the Corporation / Highways, the amount equal to the charges as claimed by the Corporation/Highways will be recovered from the contractor.
15. The fact that the contractor is working simultaneously in one or more sections in the same Division/other Divisions, will not absolve him from the responsibility of completing the work in time.
16. Wastage of PLB pipes will be permitted to an extent of 5% of the completed length as measured on the road surface.
17. In case of wastage of PLB pipes beyond 5%, the cost of PLB pipe will be recovered from the contractor.

----- END OF SECTION VIII-----

SECTION IX

SCOPE OF WORK AND JURISDICTION OF CONTRACT

1. SCOPE OF WORK

The scope of the work has been defined in NIT and given again as below-

SI No	Section No	Name of the Route/Area	Approx. Route Length in Kms	Estimated cost of works (in Rs)	Price of Bid Document (in Rs)	Bid Security/ EMD (in Rs) 2%
1.	Bachiya - THOROI TO LANGTALA (35 BN) of Jaisalmer OA of Jodhpur BA	Jaisalmer OA of Jodhpur BA	90 KM	1,11,15,305/-	2,360/-	2,22,306/-

1.1 **The Optical Fibre Cable is to be laid through PLB Pipes buried at a nominal depth of 165 cms. The steps involved in OF Cable construction are as under:**

- i) Excavation of trench up to a nominal depth of 165 cms., according to Construction specifications along National/State Highways/other roads and also in city limits as mentioned in the notice inviting tender.
 - a. Laying of PLB pipes/coils coupled by PLB sockets in excavated trenches, on bridges and culverts, drawing of 6 mm Polypropylene para pro rope (P.P. rope) through the PLB pipe ends at every manhole by PLB end caps of suitable size.
 - b. Providing of mechanical protection by R.C.C. Pipes/GI pipes and/or concreting/chambering according to construction specifications, wherever required.
 - c. Fixing of GI pipes/troughs with clamps at culverts/bridges and/or chambering or concreting of G.I. Pipes/troughs, wherever necessary.
 - d. Back filling and dressing of the excavated trenches according to construction specifications.
 - e. Opening of manholes (of size 2 meters x 1 meters x 1.65 meters depth), replacing existing 6mm P.P. ropes by 8mm P.P. rope (from manhole to manhole) for ensuring smooth passage for pulling the cable. Pulling of Optical Fibre Cable with proper tools and accessories as per construction specifications. Sealing of both ends of the manholes by hard rubber bush of suitable size to avoid entry of rodents into the PLB pipes, putting split PLB pipes over cable in the manhole to protect the bare cable in the pulling manhole. Back filling and dressing of manholes.
 - f. Digging of pit of size 2 meter x 2 meter x 1.8 meter (depth) for construction of jointing chamber at approximately every two kilometers of internal size of 1.5 meter x 1.5 meter x 1.2 meter using bricks and mortar or fixing pre-cast jointing chamber of internal diameter of 1.2 meter and minimum height of 0.3 meter, filling of jointing chamber with clean sand, placing either pre-cast RCC cover or stone of suitable size on jointing chamber to protect the joint and back filling of jointing chamber with excavated soil.
 - g. Digging of pits 1 meter towards jungle side at every manhole and jointing chamber to a depth of 60 cms., fixing of route indicator/joint indicator, concreting and back filling of pits, painting of route indicators with yellow colour and joint indicator by red colour

and sign writing denoting route/joint indicator number, as per construction specifications.

h. Documentation.

2. **BRIEF DESCRIPTION OF WORK**

2.1 The work which shall be carried out as per Construction Specifications issued by BSNL contained in this bid document, involves Conventional Trenching and Reinstatement (CTR); Horizontal Directional Drilling (HDD); Related Allied Works (RAW). The various works can be summarized as below. The construction specification given below covers Conventional trenching and reinstatement and allied works. The specification for Horizontal directional drilling is specified.

2.2 Open trenching at 165 cm depth & width of 45 cms at top and 30 cms at bottom.

2.3 Permanently lubricated (PLB pipes) will be supplied by BSNL in coils of varying lengths from 200 meter onwards. Spools should be de-coiled using jack mechanism and bends removed by proper forming so that the pipes are straight. This will be part of contractors works and no extra payment will be paid. In addition to the laying of PLB pipes, there may be cases where PVC pipes of straight lengths may have also to be provided.

2.4 Whenever there is any doubt in any of the construction step, BSNL's Engineering Instructions on Under Ground Optical Fiber Cable Laying Works shall be referred.

3. **COST OF WORK:** The estimated cost of work is as mentioned in the Notice Inviting Tenders which has been worked out based on standard scheduled rates mentioned in this tender document. The actual value of work may vary based on the actual requirement but generally being limited to **+/- 50% of the contract value (quantity wise as well as total work wise) of the work.**

----- **END OF SECTION IX** -----

SECTION X

Pro-forma of Material Security Bond
(To be typed on non-judicial stamp paper of appropriate value)

Dated:.....

MATERIAL SECURITY BOND FORM

Whereas<Contract awarding authority>(hereinafter referred to as BSNL) has issued an Award Letter no..... Dated...../...../20..... for awarding the work of Optical Fibre Cable Laying work to M/s (hereafter referred to as “Contractor”) and the BSNL has asked them to submit a bank guarantee, towards material security, in favour of O/o of Rs.- (hereafter referred to as “BG. Amount”) valid up to/...../20.....(hereinafter referred to as “Validity Date”). Now at the request of the Contractor, We BankBranch having (Address) and Regd. office address as (Hereinafter called „the Bank”) agreed to give this guarantee as hereinafter contained:

1. We, “the Bank” do hereby undertake and assure to the BSNL that if in the opinion of the BSNL, the Contractor has in any way failed to observe or perform the terms and conditions of the said agreement or has committed any breach of its obligations there-under, the Bank shall on demand and without any objection or demur pay to the BSNL the said sum limited to BG Amount or such lesser amount as BSNL may demand without requiring BSNL to have recourse to any legal remedy that may be available to it to compel the Bank to pay the same.

2. Any such demand from the BSNL shall be conclusive as regards the liability of Contractor to pay to BSNL or as regards the amount payable by the Bank under this guarantee. The Bank shall not be entitled to withhold payment on the ground that the Contractor had disputed its liability to pay or has disputed the quantum of the amount or that any arbitration proceeding or legal proceeding is pending between Contractor and BSNL regarding the claim. Liability of the bank under this present being absolute and unequivocal.

3. We, the Bank further agree that the guarantee shall come into force from the date of its issue and shall remain in full force and effect up to its Validity date.

4. The Bank further agrees that the BSNL shall have the fullest liberty without the consent of the Bank and without affecting in any way the obligations hereunder to vary any of the terms and conditions of the said agreement or to extend the time for performance of the said agreement from any of the powers exercisable by BSNL against the Contractor and to forebear to enforce any of the terms and conditions relating to the said agreement and the Bank shall not be relieved from its liability by reason of such failure or extension being granted to Contractor or through any forbearance, act or omission on part of BSNL or any indulgence by BSNL to Contractor or any other matter or thing whatsoever which under the law relating to sureties would but for this provision have the effect of relieving or discharging the guarantor.

5. Notwithstanding anything herein contained; (a) The liability of the Bank under this guarantee is restricted to the BG Amount and it will remain in force up to its Validity date. (b) The guarantee shall

stand completely discharged and all rights of the BSNL under this Guarantee shall be extinguished if no claim or demand is made on us in writing on or before its validity date.

6. In case BSNL demands for any money under this bank guarantee, the same shall be paid through DD/Banker's Cheque/RTGS in favour of **"ACCOUNTS OFFICER (CASH) O/o CGMT, BSNL, Jaipur, payable at Jaipur.**

7. The Bank guarantees that the below mentioned officer who have signed it on behalf of the Bank have authority to give this guarantee under its delegated power.

Place:

Date:

(Signature of the Bank Officer)

Rubber stamp of the bank

Authorized Power of Attorney Number:

Name of the Bank officer:

Designation:

Complete Postal address of Bank:

Telephone Numbers

Fax numbers.....

----- END OF SECTION X -----

Format For the BID SECURITY/ EMD Guarantee

(To be typed on Rs.100/- non-judicial stamp paper)

Sub: Bid Security/EMD guarantee.

Whereas M/s R/o
..... (Hereafter referred to as Bidder) has approached us for giving Bank Guarantee of Rs./- (hereafter known as the "B. G. Amount") valid up to/...../ 20..... (hereafter known as the "Validity date") in favour of AO cash (Name of the office) (Hereafter referred to as BSNL) for participation in the tender of work of vide tender no.

Now at the request of the Bidder, We BankBranch having (Address) and Regd. office address as (Hereinafter called "the Bank") agrees to give this guarantee as hereinafter contained:

2. We the Bank do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the BSNL stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the BSNL by reason of breach by the said bidder(s) of any of terms or conditions contained in the said Agreement or by reason of the bidder (s) failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee where the decision of the BSNL in these counts shall be final and binding on the bank. However, our liability under this guarantee shall be restricted to an amount not exceeding the "B. G. Amount".
3. We undertake to pay to the BSNL any money so demanded notwithstanding any dispute or disputes raised by the bidder(s) in any suit or proceeding before any court or tribunal relating thereto our liability under this present being absolute and unequivocal. The Payment so made by us under this bond shall be valid discharge of our liability for payment there under and the bidder(s) shall have no claim against us for making such payment.
4. We the Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the BSNL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till BSNL Certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said bidder(s) and accordingly discharge this guarantee. Unless a demand or claim under this guarantee is made on us in writing or before the expiry of Validity date from the date hereof, we shall be discharged from all liability under this guarantee thereafter.
5. We the Bank further agree with the BSNL that the BSNL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said bidder(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the BSNL against the said bidder(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by

reason of any such variation, or extension being granted to the said Bidder(s) or for any forbearance, act or omission on the part of the BSNL or any indulgence by the BSNL to the said bidder(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. Notwithstanding anything herein contained ;
 - (a) The liability of the Bank under this guarantee is restricted to the “B. G. Amount” and it will remain in force up to its Validity date specified above.
 - (b) The guarantee shall stand completely discharged and all rights of the BSNL under this Guarantee shall be extinguished if no claim or demand is made on us in writing on or before its validity date.
7. In case BSNL demands for any money under this bank guarantee, the same shall be paid through banker’s Cheque in favour of “**ACCOUNTS OFFICER (CASH) O/o CGMT, BSNL, Jaipur, payable at Jaipur.**”
8. The Bank guarantees that the below mentioned officer who have signed it on behalf of the Bank have authority to give this guarantee under its delegated power.

Place:

Date:

(Signature of the Bank Officer)

Rubber stamp of the bank

Authorized Power of Attorney Number:

Name of the Bank officer:

Designation:

Complete Postal address of Bank:

.....

Telephone Numbers

Fax numbers

FORMAT FOR BID SECURITY IN FORM OF INSURANCE SURETY BOND

(To be submitted on non-judicial stamp paper of Rs.100/-)

Insurance Surety Bond for Bid Security

Whereas M/s R/o
..... (Hereafter referred to as **Principal**) has approached us for giving a Surety of Rs./- (hereafter known as the “**Surety Amount**”) valid up to/...../ 20..... (hereafter known as the “**Validity date**”) in favour of AGM (MM) O/o CGMT, BSNL, Rajasthan Telecom Circle, Jaipur (Hereafter referred to as **BSNL**) for participation in the tender of work of..... vide tender no.

Now at the request of the Principal, We Insurance Company Limited, registered under the Insurance Act, 1938, with its Corporate office,and Registered/Head Office (the “**Surety**”) to transact the business of Surety Insurance under the powers conferred under Section 14 (2) (i) of IRDA Act, 1999 & IRDA Guidelines issued vide IRDAI/NL/GDL/SIC/01/01/2022 3rd January, 2022, agreed to give this Surety Bond by way of performance guarantee as hereinafter contained:

2. We, the Surety, do hereby undertake to pay the amounts due and payable under this Surety without any demur, merely on a demand from the BSNL stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the BSNL by reason of breach by the said **Principal** of any of terms or conditions contained in the said tender Agreement or by reason of the **Principal**'s failure to honour its bid submitted to perform the said works. Any such demand made on the Surety shall be conclusive as regards the amount due and payable by the Surety under this Surety where the decision of the BSNL in these counts shall be final and binding on the Surety. However, our liability under this Surety shall be restricted to an amount not exceeding the “**Surety Amount**”.
3. We, the Surety, undertake to pay to the BSNL any money so demanded notwithstanding any dispute or disputes raised by the **Principal** in any suit or proceeding before any court or tribunal relating thereto our liability under this present being absolute and unequivocal. The Payment so made by us under this bond shall be valid discharge of our liability for payment there under and the **Principal** shall have no claim against us for making such payment.
4. We the Surety, further agree that the Surety herein contained shall remain in full force and effect during the period that would be taken for the performance of the said tender agreement and that it shall continue to be enforceable till all the dues of the BSNL under or by virtue of the said tender Agreement have been fully paid and its claims satisfied or discharged or till BSNL Certifies that the terms and conditions of the said tender Agreement have been fully and properly carried out by the said **Principal** and accordingly discharge this Surety. Unless a demand or claim under this Surety is made on us in writing or before the expiry of Validity date from the date hereof, we shall be discharged from all liability under this Surety thereafter.
5. We the Surety further agree with the BSNL that the BSNL shall have the fullest liberty, without our consent and without affecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said tender Agreement or to extend time of performance by the said **Principal** from time to time or to postpone for any time or from time to time, any of the powers exercisable by the BSNL against the said **Principal** and to forbear or enforce any of the terms and conditions relating to the said tender agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said **Principal** or for any forbearance, act or omission on the part of the BSNL or any indulgence by the BSNL to the

said **Principal** or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. Notwithstanding anything herein contained:
 - (a) The liability of the Surety under this Surety bond is restricted to the “**Surety Amount**” and it will remain in force up to its Validity date specified above.
 - (b) The Surety shall stand completely discharged and all rights of the BSNL under this Surety shall be extinguished if no claim or demand is made on us in writing on or before its validity date.
7. In case BSNL demands for any money under this Surety Bond, the same shall be paid through Banker’s Cheque in favour of “**ACCOUNTS OFFICER (CASH) O/o CGMT, BSNL, Jaipur, payable at Jaipur** or by any other mode such as NEFT/RTGS, etc., as indicated by BSNL in its demand letter.
8. The Surety declares that the below mentioned officer who have signed it on behalf of the Surety, have authority to give this Surety under its delegated power.

Place:

Date: (Signature of the Insurance Company Officer)
Rubber stamp of the Insurance Company

Authorized Power of Attorney Number:

Name of the officer:

Designation:

Official Email ID:.....

Complete Postal address of Insurance Company:

.....

Telephone Numbers

Fax numbers

Name, Address, Contact number and official Email ID of the Controlling Office of the Surety Issuing Branch or any web portal link, from whom / where the Surety Bond can be got confirmed by BSNL.

.....

.....

.....

.....

Pro-forma of Performance Bank Guarantee (PBG)
(To be typed on non-judicial stamp paper of appropriate value)

Dated:.....

Performance Bank Guarantee (PBG)

Whereas<Contract awarding authority> (hereinafter referred to as BSNL)has issued an Award Letter no..... Dated...../...../20..... for awarding the work of Optical Fibre Cable Laying work to M/s (hereafter referred to as “Contractor”) and the BSNL has asked them to submit a performance bank guarantee in favour of O/o of Rs.- (hereafter referred to as “PBG. Amount”) valid up to/...../20.....(hereinafter referred to as “Validity Date”). Now at the request of the Contractor, We BankBranch having (Address) and Regd. office address as (Hereinafter called „the Bank”) agreed to give this guarantee as hereinafter contained:

1. We, “the Bank” do hereby undertake and assure to the BSNL that if in the opinion of the BSNL, the Contractor has in any way failed to observe or perform the terms and conditions of the said agreement or has committed any breach of its obligations there-under, the Bank shall on demand and without any objection or demur pay to the BSNL the said sum limited to PBG Amount or such lesser amount as BSNL may demand without requiring BSNL to have recourse to any legal remedy that may be available to it to compel the Bank to pay the same.
2. Any such demand from the BSNL shall be conclusive as regards the liability of Contractor to pay to BSNL or as regards the amount payable by the Bank under this guarantee. The Bank shall not be entitled to withhold payment on the ground that the Contractor had disputed its liability to pay or has disputed the quantum of the amount or that any arbitration proceeding or legal proceeding is pending between Contractor and BSNL regarding the claim. Liability of the bank under this present being absolute and unequivocal.
3. We, the Bank further agree that the guarantee shall come into force from the date of its issue and shall remain in full force and effect up to its Validity date.
4. The Bank further agrees that the BSNL shall have the fullest liberty without the consent of the Bank and without affecting in any way the obligations hereunder to vary any of the terms and conditions of the said agreement or to extend the time for performance of the said agreement from any of the powers exercisable by BSNL against the Contractor and to forebear to enforce any of the terms and conditions relating to the said agreement and the Bank shall not be relieved from its liability by reason of such failure or extension being granted to Contractor or through any forbearance, act or omission on the part of BSNL or any indulgence by BSNL to Contractor or any other matter or thing whatsoever which under the law relating to sureties would but for this provision have the effect of relieving or discharging the guarantor.
5. Notwithstanding anything herein contained; (a) The liability of the Bank under this guarantee is restricted to the PBG Amount and it will remain in force up to its Validity date. (b) The guarantee

shall stand completely discharged and all rights of the BSNL under this Guarantee shall be extinguished if no claim or demand is made on us in writing on or before its validity date.

6. In case BSNL demands for any money under this bank guarantee, the same shall be paid through Banker's Cheque in favour of

7. The Bank guarantees that the below mentioned officer who have signed it on behalf of the Bank have authority to give this guarantee under its delegated power.

Place:

Date:

(Signature of the Bank Officer)

Rubber stamp of the bank

Authorized Power of Attorney Number:

Name of the Bank officer:

Designation:

Complete Postal address of Bank:

Telephone Numbers

Fax numbers.....

Performance Guarantee Surety Bond

(To be submitted on non-judicial stamp paper of appropriate value)

To ,
AGM (MM) O/o CGMT, BSNL,
Sardar Patel Marg, C-Scheme,
Jaipur-302008,

SuretyBond No :
SuretyBond Issue dt :
Surety Bond Amt. : INR.....
Bond Valid upto :
Bond Claim Period :

Dear Sir / Madam,

Whereas(e.g. **AGM (MM) O/o CGMT, BSNL, Rajasthan Telecom Circle, Jaipur**)
(hereafter referred to as **BSNL**) has issued an APO/AWO no.
.....Dated.....awarding the work of
.....
..... (the “Agreement”)to M/s.....,
R/o..... (hereafter referred to as “**Principal**”) and BSNL has
asked Principal to submit a performance guarantee in favour of(e.g. **AGM (MM) O/o
CGMT, BSNL, Rajasthan Telecom Circle, Jaipur**) of INR(hereafter referred to as
“Bond Amount”) valid up to dd.mm.yyyy(hereafter referred to as “Validity Date”)

Now at the request of the Principal, We..... Insurance Company Limited,registered under the
Insurance Act, 1938, withits Corporate office,.....and
Registered/Head Office (the
“**Surety**”)to transact the business of Surety Insurance under the powers conferred under Section 14 (2) (i)
of IRDA Act, 1999 & IRDA Guidelines issuedvide IRDAI/NL/GDL/SIC/01/01/2022 3rd January, 2022,
agreed to give this Surety Bond by way of performance guarantee as hereinafter contained:

2. The Surety do hereby undertake and assure to the BSNL that, if in opinion of BSNL the Principal in any way fails to observe or perform the terms and conditions of the Agreement or commits any breach of its obligations there-under, the Surety shall on demand and without any objection or demur pay to the BSNL such sum or sums up to an aggregate sum of the Bond Amount or such lesser amount as BSNL may demand without requiring BSNL to have recourse to any legal remedy that may be available to it to compel the Surety to pay the same.
3. Any such demand from the BSNL shall be conclusive as regards the liability of Principal to pay to BSNL or as regards the amount payable by the Surety under this Surety Bond. The Surety shall not be entitled to withhold payment on the ground that the Principal had disputed its liability to pay or has disputed the quantum of the amount or that any arbitration proceeding or legal proceeding is pending between Principal and BSNL regarding the claim.
4. The liability of the Surety under this Surety Bond is restricted to the Bond Amount and this Surety Bond shall come into force from the date of its issue and shall remain in full force and effect up to its Validity date.
5. The Surety further agrees that the BSNL shall have the fullest liberty without the consent of the Surety and without affecting in any way the liability of the Surety under this Surety Bond to vary any of the terms and conditions of the Agreement or to extend the time for the performance contained in the Agreement from any of the powers exercisable by BSNL against the Principal and to forebear from enforcing any of the terms and conditions relating to the Agreement and the Surety shall not be relieved from its liability by reason of such failure or extension being granted to Principal or through any forbearance, act or omission on the part of BSNL or any indulgence by BSNL to Principal or any other matter or thing whatsoever which under the law relating to sureties would but for this provision have the effect of relieving or discharging the Surety.

6. In case BSNL demands for any money under this Surety Bond, the same shall be paid through banker's Cheque in favour of “ **Accounts officer (Cash) O/o CGMT, BSNL, Jaipur**” payable at **Jaipur** or by any other mode such as NEFT/RTGS, etc., as indicated by BSNL in its demand letter.

7. The Surety guarantees that the below mentioned officers who have signed it on behalf of the Surety have authority to give this Surety Bond under its delegated power.

Notwithstanding anything contained herein above:

1. Our Liability under this Surety Bond shall not exceed INR **(Rupees: Only).**
2. This Surety Bond shall be valid upto.....(Validity date)
3. Further a claim period of **3 (three) months** from the Validity date of the Surety Bond is available to make a demand under this Surety Bond. We are liable to pay the Bond Amount or any part thereof under this Surety Bond only and only if you serve upon us a written claim or demand on or before (Date of claim period if any).
4. At the end of expiry of the Validity Date (including claim period), unless an action to enforce the claim under this Surety Bond is initiated before the Court or Tribunal on or before 12 months after the expiry of the Validity Date (including claim period), all your rights under this Surety Bond shall stand extinguished and we shall be relieved and discharged from all our liabilities and obligations under this Surety Bond irrespective of return of original Surety Bond

Place:

Date:

(Signature of the Surety)

Rubber stamp of the Surety

Authorized Power of Attorney Number:

Name of the Surety officer:

Designation:

Complete Postal address of Surety:

.....

Telephone Numbers

Fax numbers

Email ID(only official Email ID).....

Name, Address, Contact number and official Email ID of the Controlling Office of the Surety Issuing Branch or any web portal link, from whom/ where the Surety Bond can be got confirmed by BSNL.

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SECTION - XI

PROFORMA OF AGREEMENT

The successful tenderer shall have to execute the following agreement;

NIT No:**Dated**.....

LOI No:**Dated**

This agreement made on this _____ day of (Month) **2024** (year) between M/s herein after called “The Contractor” (which expression shall unless excluded by or repugnant to the context, include its successors, heir, executors, administrative representative and assignee) of the one part & Chairman & Managing Director, BSNL through <**CGMT BSNL Rajasthan, Jaipur** > herein after referred to as BSNL, of other part.

Where as the contractor has offered to enter into contract with the BSNL for the execution of work of OFC laying on behalf of BSNL using open trenching and trenchless technology and other associated works of OF Cable on the terms and conditions herein contained and the rates approved by the BSNL (copy of Rates annexed) have been duly accepted and where as the necessary security deposits, as mentioned below, have been furnished in accordance with the provisions of the tender document and whereas no interest will be claimed on the security deposits.

a) **PBG No:** for **Rs.**Issued by: (Bank)

b) Material Security BG No..... for **Rs.**Issued by: (Bank)

Now these presents witness and it is hereby agreed and declared by and between the parties to these presents as follows.

- 1) The contractor shall, during the period of this contract that is to say from.....
.....toor completion of work for **Rs.**
..... (In words) **Rs.** whichever is later or until this contract shall be determined by such notice as is hereinafter mentioned, safely carryout, by means of labours employed at his own expenses and by means of tools, implements and equipment etc. to be supplied by him to his labour at his own expenses, all trenching and trenchless pipe laying, cable pulling, cable splicing, joint chamber preparation, fixing, painting and sign writing or route indicators and other associated works as described in tender documents (annexed to the agreement), when the Tender Issuing Authority or any other persons authorized by Tender Issuing Authority in that behalf require. It is understood by the contractor that the quantity of work mentioned on the schedule is likely to change as per actual requirements as demanded by exigencies of service.
- 2) The NIT (notice inviting tender), Bid documents (Qualifying and Financial), letter of intent, approved rates, annexed hereto and such other additional particulars, instructions, drawings, work orders as may be found requisite to be given during execution of the work shall be deemed and taken to be an integral part of the contract and shall also be deemed to be included in the expression “The Agreement” or “The Contract” wherever herein used.

3) The contractor shall also supply the requisite number of workmen with means & materials as well as tools, appliances, machines, implements, vehicles for transportation, cartage etc. required for the proper execution of work within the time prescribed in the work orders.

4) The contractor hereby declares that nobody connected with or in the employment of the BSNL is not/shall not ever be admitted as partner in the contract.

5) The contractor shall abide by the terms and conditions, rules, guidelines, construction practices, safety precautions etc. stipulated in the tender document including any correspondence between the Contractor and the BSNL having bearing on execution of work and payments of work to be done under the contract.

In witness whereof the parties present herein set their respective hands and seals the day and year in _____

Above written:

Signed sealed & Delivered by
The above named Contractor in
The presence of.

Witness:

- 1.
- 2.

Signed & Delivered on behalf
of BSNL by the

Witness:

- 1.
- 2.

----- END OF SECTION XI -----

SECTION – XII

STANDARD SCHEDULE OF RATES FOR OFC LAYING

Name of Project in Jodhpur BA

S. No	Section No	Name of the Route/Area	Approx. Route Length in Kms
1.	Bachiya - THOROI TO LANGTALA (35 BN) of Jaisalmer OA of Jodhpur BA	Jaisalmer OA of Jodhpur BA	90 KM

*Quantum of work and Schedule of rate given in Section XIX

Note: - 1. The above Schedule of Rates is for the cable laying works to be carried out as per the description of various items as specified in the Engineering Instructions and Construction Specifications for OF cable laying works issued by BSNL.

Note- 2 Above Standard Schedule of Rates are inclusive of all taxes and levies but exclusive of GST. GST shall be paid extra as applicable to the GST registered contractors.

----- END OF SECTION XII -----

SECTION XIII

OF CABLE CONSTRUCTION SPECIFICATION MANUAL

The guidelines in the form of Engineering Instructions (E.Is.) on Construction Practices of Optical Fibre Cables are issued by T & D wing of the Department, from time to time. However, the present practices are summarized here under, from the point of view of describing scope of work under various items of work. This document will need revision as and when practices undergo any revision.

1. General

The Optical Fibre Cable is planned considering the following objectives of the scheme:

- i) Minimum possible route length vis-a-vis route having maximum number of towns with potential telecom growth.
- ii) Linking of small exchanges off main road by leading in O.F.C. vis-a-vis routing the main cable itself via such exchanges.

After deciding above mentioned issues, a detailed measurement of lengths of cable route along with details of rail/road crossings, culverts, causeways, etc. may be recorded in the detailed survey register. The probable locations of joints, terminations and re-generators may also be decided and marked on the route map.

On the basis of surveys, general permission from road and rail authorities for laying the Optical Fibre Cable along the decided routes and permission for rail / road crossings will have to be obtained. Generally, O.F.C. is laid straight as far as possible along the road near the boundaries, away from the burrow pits. The O.F.C. is laid along the roads at a minimum distance of 15 metres from the center line of the road or in accordance with the permission from the concerned road authorities in view of their road widening plan. As the O.F.C. carries high capacity traffic and is planned for 40 years of life, it is imperative that the cable is laid after obtaining due permission from all the concerned authorities to avoid any damage/shifting at a later stage and also disruption of services/ revenue loss.

In special cases, where it may be necessary to avoid burrow pits or low lying areas, the cable may be run underneath the shoulders at a distance of 0.6 metre from the outer edge of the road embankment provided the same is located at least 4.5 metres away from center line of road and 1.2 metre below the road surface.

The Optical Fibre Cable is laid through PLB Pipes/Coils buried at a nominal depth of 165 cms.

The steps involved in OF Cable construction are as under:

- i) Excavation of trench upto a nominal depth as specified, according to construction specifications along National/State Highways/other roads and also in city limits as mentioned in the notice inviting tender.
- ii) Laying of PLB pipes/coils coupled by PLB sockets in excavated trenches, on bridges and culverts, drawing of 6 mm polypropylene para pro rope (P.P. rope) through the PLB pipes/coils as per Construction Specifications and sealing of PLB pipe ends at every manhole by PLB end caps of suitable size.
- iii) Providing of mechanical protection by R.C.C. Pipes/GI pipes and/or concreting/chambering according to construction specifications, wherever required.

- iv) Fixing of GI pipes/troughs with clamps at culverts/bridges and/or chambering or concreting of G.I. Pipes/troughs, whenever necessary.
- v) Bank filling and dressing of the excavated trenches according to construction specifications. Digging of pits 1 metre towards jungle side at every manhole chamber to a depth of 60 cms., fixing of route indicator, concreting and back filling of pits. Painting of route indicators with yellow colour and sign writing denoting route indicator number as per construction specifications.
- vi) Documentation.

The documentation, consisting of the following shall be prepared exchange to exchange for intra SSA OFC links and for each section in case of inter SSA/National long distance routes.

a) **Route Index Diagrams – General:** This diagram shall consist of Cable Route Details on Geographical Map drawn to scale the prominent land marks and alignment of cable with reference to road. This shall be prepared on A-3 sheets of 80 GSM.

b) **Route Index Diagrams – Profile:** These diagrams will contain:

- a. Make and size of the cable.
- b. Offset of cable from center of the road at every 10 meters
- c. Depth profile of Cable at every 10 meters
- d. Details of protection with type of protection depicted on it
- e. Location of culvert and bridges with their lengths and scheme of laying of PLB pipe/PLB Blowing Type/Pre-installed ropes thereon.
- f. Important landmarks to facilitate locating the cable in future
- g. Location of joints and pulling manholes.

These diagrams shall be prepared on **A-4 sheets** of 80 GSM. On one sheet profile of maximum 400 meters shall be given to ensure clarity.

c) **Joint location Diagram:** This diagram will show:

- a. Geographical location of all the joints.
- b. Depth of Joint Chamber covers from ground level
- c. Type of chamber (Brick/Pre-cast)
- d. Length of O.F. Cable kept inside the joint chamber from either direction.

This shall be prepared on **A-4 sheets** of 80 GSM. All the diagrams (i), (ii) & (iii) shall bear the signatures of the contractor, the Engineer-in-charge as a proof of accuracy of the details. The diagrams shall be bound in A-4 size book with cover. The cover sheets shall be of 110 GSM and laminated. The front cover shall have the following details.

1. Name of the SSA/Project Organization.
2. Name of the OFC Link
3. Name of the Contractor
4. Date of commencement of work
5. Date of completion of work

For each route/section 6 sets of above-mentioned document shall be submitted.

2. **PLB/ROPE Materials used:**

PLB PIPE/COILS

PLB Socket: For coupling PLB Pipes/coils

PP Rope: 6mm PP rope is drawn through the PLB pipes / coils and safely tied to the end caps at either ends with hooks to facilitate pulling of the OF cables at a later stage

PLB End Caps: For pulling the cable through the pipes, it is necessary to have suitable manholes at every 200M length and also at bends and corners suitably located. The pipes are laid for 200M or less at a time for the distance between two manholes. The ends of the PLB pipes/coils are closed with PLB End Caps. A suitable arrangement should be provided in the End Cap to tie PP Rope.

MATERIALS FOR MECHANICAL PROTECTION

For lesser depths requiring mechanical protection as per specifications and in built up areas, in towns and cities falling within the municipal limits, suitable mechanical protection is provided to PLB pipes/coils using RCC full/half round pipes or GI pipes or concreting of size 25 cms x 25 cms reinforced with MS weld mesh or a combination of any of these as per the instructions of the SDE-in-charge of the work as per instructions of the Engineer-in-Charge.

G.I. PIPES: Whenever protection by G.I. pipe is provided, it is preferable to use PLB coils. As space on parapet wall on Bridges/culverts is limited, 40mm GI pipes may be used with 32 mm PLB coil drawn inside.

M.S. Weld Mesh: The PLB pipes can also be protected by embedding it in concrete of size of 25 cms x 25 cms reinforced with MS weld mesh.

The strength of RCC/CC is dependent on proper curing, therefore, it is imperative that water content of CC/RCC mix does not drain out into the surrounding soil. In order to ensure this, the RCC/CC work should be carried out by covering all the sides by yellow PVC sheets of weight of not less than 1 sq. m. to avoid seepage of water into the soil.

RUBBER BUSH : To prevent entry of rodents into PLB pipes, the ends of PLB pipes are sealed at every manhole and joint using rodent resistant hard rubber bush (cap), so that it should be able to prevent the entry of insects, rodents, mud, and rainwater into the PLB pipe/Coil.

ROUTE INDICATOR: The route indicators are co-located with each manhole. In addition, route indicators are also to be placed where route changes direction like road crossings etc. The route indicators made of pre-cast RCC should have the following dimensions: Base(250 mm x 150 mm); Top(200 mm x 75 mm); Height(1250 mm). The word 'BSNL OFC' should be engraved on the route indicators. (See figure 'A' for details). The route indicators are painted yellow and the same are placed at 2 ft. away from the center of the trench towards jungle side. The engraved word 'BSNL OFC' should be painted in white, on route indicators. Numbering of route indicators should be done in white paint. The numbering scheme for route indicators will be Joint No./Route Indicator No. for that joint. For example, 2/6 marking on a route indicator means 6th route indicator after 2nd joint. Enamel paints of reputed brand should be used for painting and sign writing of route as well joint indicators.

JOINT CHAMBER

The joint chamber is provided at every joint normally at a distance of 2 Kms to keep the O.F.C. joint well protected and also to keep extra length of cable which may be required in the event of faults at a later date. The joint chambers are made at site using bricks and mortar or are of pre-cast RCC type.

Supply and fixing of Pre-fabricated RCC Closure as Joint Chamber :

For supplying RCC Ring, First, a RCC ring closure of size 1.2m Φ (dia) x 0.3m depth and rim thickness 50mm made of standard 1:2:4 concrete mix. It should have a split (with two halves) RCC cover of thickness 50mm made of cement concrete mix of 1:2:4 (1: cement, 2: coarse sand, 4 stone aggregate mm nominal size reinforced with MS fabric 75 x 75 mm mesh of weight not less than 7.75 Kg per sq. meter having galvanized iron handles for each half to facilitate easy lifting, to be used as joint chamber. The word '**OFC**' should be engraved on each half of the cover. The joint chamber should be so designed that PLB pipe/PLB Blowing Type/Pre-installed rope ends remain protruding minimum 5 cms inside the chamber. The PLB pipes should be embedded within the chamber in such a way that PLB pipe remains free from the weight of the construction. The joint chamber should be plastered on all internal surfaces and top edges with cement mortar of 1:3 (1: cement, 3: coarse sand) with a floating coat of complete cement as per standard. The joint chamber is to be filled with clean sand before closing.

In Golden Quadrilateral & East West Corridor routes (every 10 Km) :

For fixing Pre-cast RCC chamber, first a pit of size 1.5 m x 1.5 m x 1.65 m depth is required to be dug. Pre cast RCC chamber consists of three parts (i) round base plate in two half of 140 cm dia and 5 cm thickness (ii) full round RCC joint chamber with diametre of 120 cm and height of 100 cm and thickness of 5 cm (iii) round top cover will be in two halves with diametre of 140 cm and thickness of 5 cm having one handle for each half in centre and word '**BSNL OFC**' engraved on it.. After, fixing the pre-cast RCC joint chamber, the joint chamber is filled with clean sand before closing. Lastly, back filling of joint chamber pit with excavated soil is carried out.

CABLE PULLING AND JOINTING/SPLICING:

CABLE PULLING:

Manholes marked during PLB pipe Type/Pre-installed ropes laying of approx. size of 3m length x 1.0m width x 1.65m depth shall be excavated for pulling the cables. There may be situations where additional manholes are required to be excavated for some reasons, to facilitate smooth pulling of cable. Excavation of additional manholes will be carried out, without any extra cost. De-watering of the manholes, if required, will be carried out without any extra cost. Dewatering/De-gasification of the ducts, if required, will be carried out without any extra cost. The existing 6mm PP rope shall be replaced by with PP rope of 8mm dia between the two consecutive manholes. This is to ensure that the PLB pipes Type/Pre-installed ropes are cleaned for pulling the cable without exerting undue tension on the OF cable. While cleaning, excessive pressure should not be put as this may result in breaking of P.P. rope and thus requiring opening of additional manholes. However, in case the cleaning rope gets stuck up during pulling, the location of clogging of PLB Pipe Type/Pre-installed ropes should be measured and located accurately. The trench at that location should be opened and the PLB Pipe Type/Pre-installed ropes should be cleaned properly or if not possible, it should be changed by a clean new PLB Pipe Type/Pre-installed ropes to facilitate easy cable pulling at a later stage without any breakage. If clogging of PLB Pipe Type/Preinstalled ropes is in the location where the pipes are protected either by RCC Pipe Type/Pre-installed ropes or by concreting and the protection is broken for cleaning/changing the PLB Pipe, the protection thus removed should be brought back to normal by the contractor without any extra cost. However, PLB Pipes Type/Pre-installed ropes, RCC Pipes required for this purpose will be supplied by the BSNL.

CABLE BLOWING

- The tenderer should blow/de blow the cable in the PLB duct by air jet blowing as per Specification. Within 7 days of notice, the contractor shall commence Blowing /de blowing and complete the work at an average speed of 4 KM per day. There shall not be any damage to the OF cable blown/de blown. Cable blowing shall be done using blowing machine which can be kept inside the manhole, as it will avoid formation of loop outside. Compressor of suitable capacity shall be used.
- Blowing has to be done for the route length, end to end. This implies work may have to be done beyond the section awarded to the contractor, and he is bound to do it. The works involved in blowing are listed below.
- Transportation of all materials issued by BSNL from stores including cable drums, joint rings and handling of the same (including loading, unloading, handling and local distribution).
- Digging of manhole and reinstatement after blowing of cable.
- The opening of End plug, de-roping of rope in PLB pipes.
- Duct integrity test as per specifications.
- If any coupler is not connected properly, they should be connected at the coupling points. If required the coupling points are to be dug open for this purpose and the existing duct cut, aligned and coupled properly. Extra piece of pipe if required has to be coupled.
- Blowing of cable and fixing cable seal plug.
- Keeping 30mtr coil in every joint chamber.
- Digging of joint chambers, placing RCC chambers supplied by BSNL, and filling with river sand.
- Closing the manhole/joint cover and ensuring that the cover sits properly.

If there is time gap after laying of pipes and blowing, the contractor should carry out Duct Integrity test of the pipe to the specified pressure and ensure that there is no block or leak, as per specifications. If there are blocks the same shall be rectified. A check list may be submitted to the site Engineer of the section after every pipe is tested, indicating the block etc. and the action taken to rectify the duct. No separate rates are payable for duct integrity test or rectification of ducts.

Cable should be blown for the entire section in the pre-assigned pipe & colour. No crossing should take place in manholes between different coloured pipes, if multiple pipes are available. Ensure no mud, water or debris goes inside the pipe during the work. Any obstructions found in the pipeline after cable blowing, shall be removed at the expense of the Contractor.

Depending upon the length of the cable and the addl. length required at manholes, chain measurement should be taken from the starting end of the section, and the drums should be properly located.

The drums are of approx. 2 Km to 4 Km and may sometimes be smaller. It may be preferable to blow the OF cable by placing the drum at the manhole point nearest to midpoint of the coil size and blow in both directions. The standard practice is to keep the clock-wise end of the cable to 'A' side of the route and the anticlockwise end to 'B' side. Also, it is the convention to have the clock-wise end on top and anticlockwise at the bottom of the drum. With that in view, the OF Cable is mounted on the jack and wheel and positioned at the manhole point. It is important to keep the drum shaft (axle) in

horizontal position by adjusting the jacks. After it is set in position, the cable should be inserted into the blowing machine.

Proper communication is to be established between the lead-in and take out manholes. This can be done by suitable Trans Receivers (Walkie Talkies) or Magneto telephones with drop wire. This has to be arranged by the contractor and communication with each point should be kept throughout the blowing. OF cable at RCC chambers should be lead along the walls & suitable MS clamps should be provided (4 on each side). Additional protection of cable if required shall be provided at manholes.

3. EXCAVATION OF TRENCHES

i) Trenching

Location and Alignment of the Trench: In city areas, the trench will normally follow the foot-path of the road except where it may have to come to the edge of the carriage way when cutting across road with specific permissions from the concerned authorities maintaining the road (such permissions shall be obtained by the department). Outside the city limits the trench will normally follow the boundary of the roadside land. However, where the road side land is full of burrow pits or afforestation or when the cable has to cross culverts/bridges or streams, the trench may come closer to the road edge or in some cases, over the embankment or shoulder of the Road (Permissions for such deviations for cutting the embankment as well as shoulder of the road shall be obtained by the contractor on behalf of BSNL).

The alignment of the trench will be decided by a responsible departmental official, not below the rank of a Junior Telecom Officer. Once the alignment is marked, no deviation from the alignment is permissible except with the approval of Engineer-in-charge. While marking the alignment only the center line will be marked and the Contractor shall set out all other work to ensure that, the excavated trench is as straight as possible. The Contractor shall provide all necessary assistance and labour, at his own cost for marking the alignment. Contractor shall remove all bushes, undergrowth, stumps, rocks and other obstacles to facilitate marking the center line without any extra charges. It is to be ensured that minimum amount of bushes and shrubs shall be removed to clear the way and the contractor shall give all consideration to the preservation of the trees.

ii) Line-Up: The line-up of the trench must be such that PLB pipe(s) shall be laid in a straight line except at locations where it has to necessarily take a bend because of change in the alignment or gradient of the trench, subject to the restrictions mentioned elsewhere.

iii) Method of Excavation: In city limits as well as in built up areas, the contractor shall resort to use of manual labour only to ensure no damage is caused to any underground or surface installations belonging to other public utility services and/or private parties. However, along the Highways and cross country, there shall be no objection to the Contractor resorting to mechanical means of excavation, provided that no underground installations exist in the path of excavation, if any, are damaged.

There shall be no objection to resort to horizontal boring to bore a hole of required size and to push through G.I. Pipe (65mm/40mm dia) through horizontal bore at road crossing or rail crossing or small hillocks etc.

All excavation operations shall include excavation and 'getting out'. 'Getting out' shall include throwing the excavated materials at a distance of at least one metre or half the depth of excavation, whichever is more, clear off the edge of excavation. In all other cases 'getting out' shall include depositing the excavated materials as specified.

In Rocky strata excavation shall be carried out by use of electro mechanical means like breakers or by blasting wherever permissible with express permission from the competent authority. If blasting operations are prohibited or nor practicable, excavation in hard rock shall be done by authorize.

Trenching shall as far as possible be kept ahead of the laying of pipes. Contractor shall exercise due care that the soil from trenching intended to be loose for back filling is not mixed with loose debris. While trenching, the Contractor should not cause damage to any underground installations belonging to other agencies and any damage caused should be made good at his own cost and expense.

The contractor to prevent any accident to pedestrians or vehicles shall provide necessary barricades, night lamps, warning boards and required watchman. While carrying out the blasting operations, the contractor shall ensure adequate safety by cautioning the vehicular and other traffic. The contractor shall employ sufficient man-power for this with caution boards, flags, sign writings etc.

The contractor should provide sufficient width at the trench at all such places, where it is likely to cave in due to soil conditions without any extra payment. A free clearance of minimum 15 cms. should be maintained above or below any existing underground installations. No extra payment will be made towards this.

In order to prevent damage to PLB pipes over a period of time, due to the growth of trees, roots, bushes, etc. the contractor shall cut them when encountered in the path of alignment of trench without any additional charges.

In large burrow pits, excavation may be required to be carried out for more than 165 cms in depth to keep gradient of bed less than 15 degrees with horizontal. If not possible as stated above, alignment of trench shall be changed to avoid burrow pit completely.

iv) Depth and Size of the Trench : For normal & hard soil for all areas including ordinary & hard rock for all areas minimum depth shall be 165 cms shall be for penalty. For ordinary & hard rock minimum depth shall be 135 cms shall be followed for penalty. For Hilly terrain , minimum depth shall be 90 cms shall be followed for penalty. However, Engineer-in-charge in exceptional cases due to adverse site conditions encountered, may allow to lay PLB Pipes at a lesser depth with additional protection. In all cases, the slope of the trench shall not be less than 15 degrees with the horizontal surface. The width of the trench shall normally be 45 cms. at the top and 30 cms. at the bottom. In case, additional pipes (PLB/GI/RCC Pipes) are to be laid in some stretches, the same shall be accommodated in this normal size trench.

When trenches are excavated in slopes, uneven ground, inclined portion, the lower edge shall be treated, as top surface of land and depth of trench will be measured accordingly. In certain locations, such as uneven ground, hilly areas and all other places, due to any reason whatsoever it can be ordered to excavate beyond standard depth of 165 cms to keep the bed of the trench as smooth as possible. Near the culverts, both ends of the culverts shall be excavated more than 165 cms. to keep the gradient less than 15 degree with horizontal. In case where depth beyond specified depth is necessary it shall be clearly indicated in the technical specification of bid documents and of each work order. No extra payment shall be made for such extra depth.

If excavation is not possible to the minimum depth of 165 cms, as detailed above, full facts shall be brought to the notice of the Engineer-in-charge in writing giving details of location and reason for not being able to excavate that particular portion to the minimum depth. The competent authority shall grant approval in writing under genuine circumstances. The decision of the competent authority shall be final and binding on the contractor.

v) Dewatering: The Contractor shall be responsible for all necessary arrangements to remove or pump out water from trench. The Contractor should survey the soil conditions encountered in the section and make his own assessment about dewatering arrangements that may be necessary. No extra payment shall be admissible for this.

vi) Wetting: Wherever the soil is hard due to dry weather conditions, if watering is to be done for wetting the soil to make it loose, the same shall be done by the contractor. No extra payment shall be admissible for this.

vii) Blasting: For **excavation in hard rock**, where blasting operations are considered necessary, the contractor shall obtain approval of the Engineer-in-Charge in writing for resorting to blasting operations.

The contractor shall obtain license from the competent authority for undertaking blasting work as well as for obtaining and storing the explosive as per the Explosive Act, 1884 as amended up to date and the explosive Rules, 1983. The contractor shall purchase the explosives fuses, detonators, etc. only from a licensed dealer. Transportation and storage of explosive at site shall conform to the aforesaid Explosive Act and Explosive Rules. The contractor shall be responsible for the safe custody and proper accounting of the explosive materials. Fuses and detonators shall be stored separately and away from the explosives. The Engineer-in-Charge or his authorized representative shall have the right to check the contractor's store and account of explosives. The contractor shall provide necessary facilities for this.

The contractor shall be responsible for any damage arising out of accident to workmen, public or property due to storage, transportation and use of explosive during blasting operation.

Blasting operations shall be carried out under the supervision of a responsible authorized agent of the contractor (referred subsequently as agent only), during specified hours as approved in writing by the Engineer-in-Charge. The agent shall be conversant with the rules of blasting.

All procedures and safety precautions for the use of explosives drilling and loading of explosives before and after shot firing and disposal of explosives shall be taken by the contractor as detailed in **IS:4081** safety code for blasting and related drilling operation.

viii) Trenching Near Culverts/Bridges : The PLB pipes shall be laid in the bed of culvert at the depth not less than 165 cms protected by G.I. pipes/ DWC/ RCC and concreting as decided by Engineer-in-Charge.

Both ends of culverts shall be excavated more than 165 cms in depth to keep the gradient of not less than 15 degree with horizontal. The bed of trench should be as smooth as possible.

While carrying out the work on bridges and culverts, adequate arrangement for cautioning the traffic by way of caution boards during day time and danger lights at night shall be provided.

In case of small bridges and culverts, where there is a likelihood of their subsequent expansion and authorized, the cable should be laid with some curve on both sides of the culvert or the bridge to make some extra length available for re-adjustment of the cable at the time of reconstruction of culvert or the bridge.

4. LAYING OF H.D.P.E. PIPES / COILS:

After the trench is excavated to the specified depth, the bottom of the trench has to be cleared of all stones or pieces of rock and leveled up properly. A layer of soft soil/or sand(in case the excavated material contains sharp pieces of rock/stones) of not less than 5 cms is required for leveling the trench to ensure that the cable when laid will follow a straight alignment. Adequate care shall be exercised while laying so that the OF cables are not put to undue tension/pressure after being laid as this may adversely affect the optical characteristics of cables with passage of time.

The contractor shall ensure that trenching and pipe laying activities are continuous, without leaving patches or portions incomplete in between. In case intermediate patches are left, measurement of the completed portions will be taken only after work in such left over patches are also completed in all respects.

Preparatory to aligning the pipe for jointing, each length of the PLB pipe shall be thoroughly cleaned to remove all sand, dust or any other debris that may clog, disturb or damage the optical fibre cable when it is pulled at a later stage. The ends of each pipe and inside of each PLB socket shall be thoroughly cleaned of any dirt or other foreign materials.

After the trench is cleaned the PLB Pipes/Coil shall be laid in the cleaned trench, jointed with “O” ring type PLB Sockets & 6 mm PP rope should be drawn through the PLB Pipes at the time of laying the pipes to facilitate cable pulling at a later stage. At every manhole approximately at every 200m or at bends or turns the pp rope will be tied to the PLB end caps used for sealing the PLB pipes, to avoid entry of rodents/mud etc.

At the end of each day work, the open ends of the pipes sections shall be tightly closed with end caps to prevent the entry of dirt/mud, water or any foreign matter into PLB pipes until the work is resumed.

In City, Town, Urban area falling within Municipal/Corporation limits, the PLB Pipes shall be laid with protection using RCC/G.I. Pipes/Concreting reinforced with weld mesh. Moreover, in cross country routes, if depth is less than 1.2 metres, protection by using RCC/G.I. Pipe/Concreting reinforced with weld mesh shall be provided. Engineer-in-charge shall decide about such stretches and type of protection to be provided in view of the site requirements. Normally 100mm RCC Pipes shall be used for protecting PLB Pipe but if more than one PLB Pipe is to be laid and protected, RCC Pipe of suitable size to accommodate the required number of PLB Pipes shall be used.

The PLB Pipes shall be laid in RCC Full Round spun Pipes/DWC/GI pipes as required at road crossings. The RCC pipes/GI pipes shall extend at least 3 metres on either side of the road at road crossings. At road crossings, extra GI/PLB Pipes may be laid as per the direction of the Engineer-in-charge. On Rail bridges and crossings, the PLB Pipes shall be encased in suitable cast iron as prescribed by the Railway Authorities.

Whenever RCC pipes are used for protection, the gaps between the RCC collars and the RCC pipes shall be sealed using cement mortar 1:3 (1:53 grade cement of reputed brand, 3: fine sand without impurities) to bar entry of rodents. Every third collar of RCC pipes (Normally of 2 metres length) and also both ends of RCC Pipes will be embedded in a concrete block of size 40 cms. (L) x 40 cms (W) x 25 cms (H) of 1:2:4 cement concrete mix (1:53 grade cement of reputed brand, 2: coarse sand, 3: stone aggregate of nominal size of 20mm) so that the alignment of RCC pipes remain firm and intact and to avoid entry of rodents.

Wherever GI Pipes are used, special care should be taken to ensure that G.I. Pipes are coupled properly with the sockets so as to avoid damage to PLB Pipe and eventually the OF Cable in the event of pressure coming on the joint and G.I. Pipe joint giving its way. Rubber bushes shall be used at either ends of the GI pipes to protect PLB Pipe. Both the ends of G.I Pipe will be embedded in a concrete block of size 40 cms (L) x 40 cms (W) x 25 cms (H) of 1:2:4 cement concrete mix (1:53) grade cement of reputed brand, 2: coarse sand, 3: stone aggregate of nominal size of 20mm) so that the alignment of G.I. Pipes remain firm and intact and to avoid entry of rodents.

In case of protection by concreting at site, the nominal dimension of concreting shall be 250mm x 250mm section. Cement Concrete Mixture used shall be of 1:2:4 composition i.e. 1 : 53 grade Cement of a reputed company, 2 : Coarse Sand, 4 : Graded Coarse Stone aggregate of 20mm nominal size, reinforced with MS weld mesh. As the RCC is cast at site, it is imperative to ensure that special care is taken to see that proper curing arrangements are made with adequate supply of water. The contractor shall invariably use mechanical mixer at site for providing RCC protection to ensure consistency of the mix.

For carrying out concreting work in trenches, yellow PVC sheets of width not less than 1.0M and of weight not less than 1 kg. per 8 sq. metres shall be spread and nailed on sides of the trench to form trapezoidal section for concreting in the cleaned trench, to avoid seepage of

water into the soil. A bed of cement concrete mixture of appropriate width and 75 mm thickness shall be laid on the PVC sheet, before laying PLB pipes. The PLB pipes shall then be laid above this bed of concrete. After laying the PLB pipes, MS weld mesh should be wrapped around and tied and concrete mix is to be poured to form the cross sectional dimensions as instructed by the Engineer-in-charge. The strength of RCC is dependent on proper curing, therefore, it is imperative that water content of RCC mix does not drain out into the surrounding soil. Portions where cement concreting have been carried out shall be cured with sufficient amount of water for reasonable time to harden the surface.

After curing, refilling of the balance depth of the trench has to be carried out with excavated soil.

The PLB pipes/RCC/GI pipes shall be laid only in trenches accepted by Engineer-in-charge or his representative. The Contractor shall exercise due care to ensure that the PLB pipes are not subjected to any damage strain.

Water present in the trench at the time of laying the PLB Pipes shall be pumped out by the contractor before laying the pipes in the trench to ensure that no mud or water gets into the pipes, thus choking it.

In case of nallahs, which are dry for nine months in a year, the PLB Pipes shall be laid inside the RCC Pipes/ or GI Pipes and concrete laid at a minimum depth of 165 cms., as instructed by the Engineer-in-charge. The mechanical protection shall extend at least 5 metres beyond the bed of nallah on either side.

Notwithstanding anything contained in clauses referred above, the Engineer-in-charge may order, based on special site requirements, that the PLB Pipes may be encased in reinforced cement concrete, as detailed, *ibid*.

While laying the pipes, a gap of 2M is kept at convenient locations approx. 200m apart and at the bends and turns, which will be used as manholes during OF cable pulling. Ends of the PLB pipes at the manholes shall be sealed using PLB end caps after tying the PP rope to the end caps to avoid choking of the pipes. In a similar manner, manholes shall be kept while approaching bridges, road crossings etc., as instructed by the Engineer-in-charge. The location of the manholes will be decided by the Engineer-in-charge.

5. Laying Protection Pipes on Bridges and Culverts :

In case trenching and pipe laying is not possible in the beds of the culverts, the pipes shall be laid over the culverts/bridges after getting due permission from the competent authority. Of late the bridge construction authorities are providing ducts below the footpaths on the bridges for various services. The telecom officers need to maintain good liaison with the concerned authority to get one side of the duct allotted for Telecom Cables. In such ducts, G.I. Pipes can be coupled and laid for pulling the cables. It would be pertinent to mention here that close liaison with bridge construction authorities would be of immense advantage in ensuring provision of ducts on one or both the sides of the bridges as per future requirements. However, for laying cables on existing bridges, where duct arrangement does not exist, one of the following methods may be adopted.

Normally in the Bridges/Culverts, where there are no ducts and where the cushion on the top of the Arch is 50 cm to 100 cm or more, G.I. Pipe (Carrying PLB pipe and cable) may be buried on the top of the Arch adjoining the parapet wall, by digging close to the wheel guards. Every precaution shall be taken to see that no damage occurs to the arch of the culvert. After burying the GI pipe, the excavated surface on the arch shall be restored. Where the thickness of the Arch is

less than 50 cms, the pipe must be buried under the wheel guard masonry and the wheel guard rebuilt.

If neither of the two methods is possible, the G.I. Pipes/GI Troughs/DWC Pipes must be clamped outside the parapet wall with the clamps. If necessary, the pipe may be taken through the parapet wall at the ends where the wall diverges away from the road.

In case where the methods explained in clauses referred above are not possible, the G.I. Pipes/GI Troughs/DWC Pipes can be fixed on the top of the road curb close to the inside face of the parapet wall by means of clamps, using raw plugs and wood screws or small diameter bolts, without damaging the concrete and limiting the external diameter of the bolts to 7.5 mm. The permission for carrying out this work will be obtained from the Road Authorities by the contractor. Methods cited in above clauses should be carried out under close supervision of Road authorities.

The surface to be concreted should be thoroughly cleaned and leveled before concreting. At both ends of the Bridges/Culverts, where the GI Pipes/GI Troughs slope down and get buried, the concreting should be extended to ensure that no portion of the GI Pipes/GI Troughs is exposed as ordered by the Engineer-in-charge to protect the Pipe/Trough from any possible damage externally caused. Where white wash/colour wash is existing on the Bridges/Culverts, the same should also be carried out on the concreted portion to ensure uniformity.

6. Back Filling and Dressing of the Trench :

The earth used for filling shall be free from all roots, grass, shrubs, vegetation, trees, saplings and rubbish. Provided that the PLB Pipes have been properly laid in the trench at the specified depth, the back--filling operation shall follow as closely as practicable. The back-filling operation shall be performed in such a manner so as to provide firm support under and above the pipes and to avoid bend or deformation of the PLB pipes when the PLB pipes get loaded with the back filled earth.

At locations where the back filled materials contains stones/sharp objects which may cause injury to the PLB pipes and where the excavated or rock fragments are intended to refill the trench in whole or in part, the trench should be initially filled, with a layer of ordinary soil or de-rocked loose earth of not less than 10 cms above the pipes.

Back filling on public, private roads, railway crossings, footpaths in city areas shall be performed immediately after laying the PLB pipes. Back filling at such locations shall be thoroughly rammed, so as to ensure original condition and made safe for traffic. All excess soil/material left out on road/footpath/railway crossing shall be removed by contractor. However, along the highways and cross-country, the dug-up material left out should be kept as heap above the trench while refilling.

In city limits, no part of the trench should be kept open for more than 50 metres length at any time and in all places where excavation has been done, no part of the trench should be kept open over night to prevent any mishap or accident in darkness.

7 MICRO TUNNELING

7.1 GENERAL WORK DESCRIPTION

Laying of PLB pipe of different types and sizes in general, including some or all of the following activities:-

Horizontal boring and laying the PLB pipe through it:

Horizontal boring and PLB pipe laying through it along road and under railway/ road/ canal/ streams crossing in all type of soil at suitable depth including all civil works. Supply of all tested tools and tackles other required equipment and consumables, labour etc. and making all such necessary arrangements are under vendor's scope. Total job has to be completed within time schedule mentioned in work order. The work is specified under two major heads.

- a) Laying along the road.
- b) Road/ Rail/ canal crossing (road crossing means crossing a road of minimum width of 8 mtr.)

Under each head there will be again three different sizes of boring :

- a) Boring of single pipe.
- b) Boring from two pipes to four pipes.
- c) Boring more than four pipes.

The PLB pipe will be pulled through the horizontal bore with insertion of nylon rope provided by the department. Balloon (25mm. dia and 45mm length) test both ways is to be carried out by the bidder including the rope insertion if necessary for each pipe line. Duct integration test is to be carried out for each pipe in case of without rope pipes.

7.2 SPECIFICATION FOR PLB PIPE LAYING BY MICRO TUNNELING

1. In this system of cable laying following job specification should be maintained:

- (i) Guided boring / drilling technology is to be used. Mechanical mores are not permitted
 - a. Radio or any other detection system should be used for avoiding damage to existing underground utilities i.e. electric supply, water pipe lines, telecom copper cables and optical fiber cables, gas pipe lines, sewerage etc.
 - b. The depth of boring should be such as to clear any underground utilities/obstacles. However in no case the depth of boring be less than 2m from the road surface.
 - c. In horizontal and vertical boring the system should be capable of going up to 10 mts below the ground level.
 - d. In a shift of 8 hrs at least 500 (Five hundred) meter of drilling should be achieved.
 - e. As far as possible cable should be laid in drum lengths and cutting of cable should be avoided while laying along road.

2. Ground penetrating Radar survey and damage to Telephone cable and other underground utility services:

- (i) The contractor should collect all available information regarding underground services and take necessary care to protect them. He should also have sufficient arrangements to identify and protect such underground services.
- (ii) The contractor shall carry out ground penetrating Radar survey along the proposed cable route at his own cost to identify the underground services and for setting out the

rules as directed by executive officer. The executive officer shall provide the route map to the contractor if available for plotting the existing utilities and setting the route for horizontal drilling. However, for safe drilling the contractor should make requisite inspection and test pits whenever necessary.

3. LIFTING OF PLB PIPE:

- 3.1 The PLB pipe will be handed over to the contractor at stores. The contractor is to lift the store from the store depot to the work site.
- 3.2 Guarding at work site is to be done by the contractor.
- 3.3 At the time of laying, jack and wheel should be used so that the pipe is not damaged.
- 3.4 The contractor is to make arrangement of water and power at the site of work
- 3.5 Permission for laying is to be taken by contractor from appropriate civic & road authorities.
- 3.6 Digging of test pit and restoration of pits are to be done by the contractor.

4. **Fixing of Route Indicators/Joint Indicators:** Pits shall be dug 1 M. towards jungle side at every manhole for fixing of Route Indicator. In addition, Route Indicators are also required to be placed where O.F Cable changes directions like road crossing etc. The pits for fixing the indicator shall be dug for a size of 60 cms. X 60 cms. and 75 cms. (depth). The indicator shall be secured in upright position by ramming with stone and murrum up-to a depth of 60 cms. And concreting in the ratio of 1:2:4(1: cement, 2: coarse sand, 4: stone aggregate 20 mm nominal size) for the remaining portion of 15 cms. Necessary curing shall be carried out for the concreted structure with sufficient amount of water for reasonable time to harden the structure. The route indicator shall be painted with primer before painting with oil paint. The material used should bear ISI mark. The size of each written letter should be at least 3.5 cms. The colours of painting is yellow for Route Indicator and colour of sign writing white for Letters . The numbering scheme for route indicators will be Joint No./Route Indicators No. for that joint. For example 2/6 indicator means 6th route indicator after 2nd joint.

8. DOCUMENTATION :

The documentation, consisting of the following shall be prepared exchange to exchange for intra SSA OFC links and for each section in case of Inter SSA/National Long Distance routes.

i) Route Index Diagrams – General :

This diagram shall consist of pipe Route Details on Geographical Map drawn to scale with prominent land marks and alignment of pipe with reference to road. This shall be prepared on A-3 sheets of 80 GSM.

ii) Route Index Diagrams – Profile :

These diagrams shall contain: Make and size of the pipe, Offset of pipe from center of the road at every 10 metres, Depth profile of pipe at every 10 metres; Details of protection with type of protection depicted on it, Location of culvert and bridges with their lengths and scheme of laying of PLB Pipe/coil thereon, Important landmarks to facilitate locating the pipe in future and Location of pulling manholes.

These diagrams shall be prepared on A-4 sheets of 80 GSM. On one sheet profile of maximum 400 metres shall be given to ensure clarity.

All the diagrams (i) & (ii) shall bear the signatures of the contractor, the SDE-Site-in-charge as a proof of accuracy of the details. The diagrams shall be bound in A-4 size book with cover. The cover sheets shall be of 110 GSM and laminated. The front cover shall have the

details: Name of the SSA/Project Organization, Name of the OFC Link, Name of the Contractor, Date of commencement of work & Date of completion of work
For each route/section, 6 sets of above mentioned document shall be submitted.

9. SAFETY PRECAUTION :

i) Safety Precautions when excavating or working in excavations close to electric cables.

The Engineer-in-charge of the work should get full information from Electricity undertaking regarding any electric cables, which are known or suspected to exist near the proposed excavation and unless this is done, excavation should not be carried out in the section concerned. The electricity undertaking should be asked to send a representative and work should be preceded with close consultation with them.

Only wooden handled hand tools should be used until the electric cables have been completely exposed. A cover slab of concrete, brick or stone from above should usually be used to protect power Cables, not laid in conduits. They may or may not be protected on the sides. It is safer, therefore, always to drive the point of the pickaxe downwards then uncovering a cable, so that there is less chance of missing such warning slabs. No workman should be permitted to work alone where there are electric cables involved. At least one more man should be working nearby so that help can be given quickly in case of an accident. If disconnection of power could be arranged in that section it will be better. No electric cables shall be moved or altered without the consent of the Electric Authority and they should be contacted to do the needful. If an electric cable is damaged even slightly, it should be reported to the Electric Authority and any warning bricks disturbed during excavation should be replaced while back filling the trench. Before driving a spike into the ground, the presence of other underground properties should be checked. Information on plans regarding the location of power cables need not to be assumed as wholly accurate. Full precautions should be taken in the vicinity until the power cable is uncovered. All electric cables should be regarded as being live and consequently dangerous. Any power is generally dangerous, even low voltage proving fatal in several cases.

ii) Electric shock-Action and treatment:

Free the victim from the contact as quickly as possible. He should be jerked away from the live conductors by dry timber, dry rope or dry clothing. Care should be taken not to touch with bare hands as his body may be energized while in contact. Artificial respiration should begin immediately to restore breathing even if life appears to be extinct. Every moment of delay is serious, so, in the meanwhile, a doctor should be called for.

Safety precautions while working in Public Street and along railway lines where a road or footpath is to be opened up in the course of work, special care should be taken to see that proper protection is provided to prevent any accidents from occurring. Excavation work should be done in such a manner that it will not unduly cause inconvenience to pedestrians or occupants of buildings or obstruct road traffic. Suitable bridges over open trenches should be so planned that these are required for the minimum possible time. Where bridges are constructed to accommodate vehicular traffic and is done near or on railway property, it should be with the full consent and knowledge of the competent railway authorities.

iii) Danger from falling material:

Care should be taken to see that apparatus, tools or other excavating implements or excavated materials are not left in a dangerous or insecure position so as to fall or be knocked into the trench thereby injuring any workman who may be working inside the trench.

iv) Care when working in Excavations:

Jumping into a trench is dangerous. If it is deep, workmen should be encouraged to lower themselves. Workers should work at safe distance so as to avoid striking each other accidentally with tools. If the walls of the trench contain glass bits, corroded wire or sharp objects they should be removed carefully. If an obstruction is encountered, it should be carefully uncovered and protected if necessary. Care must be taken to see that excavated material is not left in such a position that it is likely to cause any accident or obstruction to a roadway or waterway. If possible the excavated material should be put between the workmen and the traffic without encroaching too much on the road.

v) Danger of cave in:

When working in deep trenches in loose soil, timbering up/shoring the sides will prevent soil subsidence. The excavated material should be kept at sufficient distance from the edge of the trench or pit. Vehicles or heavy equipment must not be permitted to approach too close to the excavation. When making tunneled opening, it should be ensured that the soil is compact enough to prevent cave in even under adverse conditions of traffic. Extra care should be taken while excavating near the foundations of buildings or retaining walls. In such cases, excavation should be done gradually and as far as possible in the presence of the owners of the property.

vi) Protection of Excavations:

Excavations in populated areas, which are not likely to be filled up on the same day should be protected by barriers or other effective means of preventing accidents and the location of all such openings must in any event be indicated by red flags or other suitable warning signs. During the hours from dusk to dawn, adequate number of red warning lamps should be displayed. Supervisory officers should ensure that all excavations are adequately protected in this manner as serious risk and responsibility is involved. Notwithstanding adoption of the above-mentioned precautions, works involving excavations should be so arranged as to keep the extent of opened ground and the time to open it to a minimum

vii) Precautions while working on roads:

The period between half an hour after sun-set and half an hour before sunrise, and any period of fog or abnormal darkness may also be considered at night for the purpose of these instructions, for the purpose of providing the warning signs. Excavation liable to cause danger to vehicles or the public must at all times be protected with fencing of rope tied to strong uprights or bamboo poles at a suitable height or by some other effective means. Any such temporary erection which is likely to cause obstructions and which is not readily visible should be marked by posts carrying red flags or boards with a red back-ground by day and by continuously lighted lamps at night.

The flags and the lamps should be placed in conspicuous positions so as to indicate the pedestrians and drivers of vehicles the full expanse i.e. both width and length of the obstruction. The distance between lamps or between floors should not generally exceed 1.25m along the width and 6m along length of the obstruction in non-congested area, but 4 meters' along the length in congested areas. If the excavation is extensive, sufficient notice to give adequate warning of the danger should be displayed conspicuously not less than 1.25m above the ground and close to the excavation. Where any excavation is not clearly visible for a distance of 25m to traffic approaching from any direction or any part of the carriage way of the road in which the excavation exists, a warning notice should be placed on the side or edge of all such roads from which the excavation or as near the distance as is practicable but not less than 10m from the junction of an entering or intersecting road in which the excavation exists. All warnings, in these should have a red background and should be clearly visible and

legible. All warning lamps should exhibit a red light, but white lights may be used in addition to facilitate working at night. Wherever required a passage for pedestrians with footbridge should be provided. At excavations, cable drums, tools and all materials likely to offer obstructions should be properly folded, round and protected. This applied to jointer's tents as well. Leads, hoses etc. stretched and across the carriageway should be guarded adequately for their own protection and also that of the public.

viii. Traffic Control :

The police authorities are normally responsible for the control of traffic and may require the setting up of traffic controls to reduce the inconvenience occasioned by establishment of a single line of traffic due to restriction in road width or any other form of obstruction caused by the work. As far as possible, such arrangements should be settled in advance. If there are any specific regulations imposed by the local authorities, these should be followed.

ix. Work along Railway Lines:

Normally all works at Railway crossing is to be done under supervision of the railway authorities concerned, but it is to be borne in mind that use of white, red or green flags by the Departmental staff is positively forbidden to be used when working along a railway line as this practice may cause an accident through engine drivers mistaking them for railway signals. When working along a double line of railway, the men should be warned to keep a sharp look on both the "UP" and "DOWN" lines to avoid the possibility of any accident when trains pass or happen to cross one another near the work spot.

x. Procedure and Safety precautions for use of explosives during blasting for

Trenching:

In areas where the cable trench cannot be done manually on account of boulders and rocks, it is necessary to blast the rocks by using suitable explosives. The quality of explosive to be used depends on the nature of the rocks and the kind of boulders. A few types of explosive fuses and detonators normally used for making trenches for cable works are detailed as: Gun powder, Nitrate, Mixture, Gelatin, Safety Fuse, Electric Detonator, and Ordinary Detonator.

i) Procedure :

A detailed survey of the route is to be done to assess the length of the section where trenching is to be done with the help of blasting. A route diagram of the rocky section may be prepared indicating the length of the route where the explosives are to be used. For the purpose of obtaining license, a longer length of route should be given in the application as in many cases, after digging, rocks appear where blasting was not initially anticipated.

Next a license will have to be obtained for use and storing of explosive in that section. If the area falls under a police commissioner, the authority for granting such license is the police commissioner of the concerned area. When the route does not fall in the jurisdiction of a police commissioner, the authority for issuing license is the District Magistrate.

The concerned authority should be applied in prescribed form with a route map. The concerned authority will make an enquiry and issue a license for using/storing explosives for cable trenching work. Such license will be valid for 15 days only. The license should be got renewed if the blasting operation need to be extended. Once the license is granted, it is the responsibility of the holders of the license for the proper use of explosives, its transportation and storing.

ii) Method of using :

The safest explosive is the gelatin and electric detonator. Gelatin is in the form of a stick. Electric detonator is a type of fuse used for firing the explosive electrically. Holes are made at suitable intervals on rocky terrain or boulders either by air compressor or by manual chipping. The depth of the holes should be 2 to 3 ft. Fill up the holes with small quantity of sand for about 6". First the electric detonator is to be inserted into the gelatin and the gelatin is to be inserted into the holes keeping the + ve and -ve wirings of electric detonators outside the

holes. Again refill the holes with sand. These + ve and –ve insulated wires of detonator are than extended and finally connected to an EXPLODER kept at a distance of not less than 100m. Now the explosive is ready for blasting. But, before connecting wires to exploder for blasting, all necessary precautions for stopping the traffic, use of red flags, exchange of caution signals, etc., should be completed and only then Exploder should be connected and operated.

iii) Operation of exploder (IDL schaffler type 350 type exploder) :

The type 350 blasting machine consists of a bearing block with blasting machine system and the explosion proof light – alloy injection moulded housing. The exploder is held with the left hand. The twist handle is applied to the drive pin, clapped with the right hand turned in the clock wise direction in continuous measurements at the highest speed from the initial position until it reached to a stop. At this stage an indication lamp will glow. When the indication lamp glows, “press button switch” should be pressed. This will extend the electric current to detonator and gelatin will be detonated. The rock will be blasted out of the trench. Number of holes can be blasted in a single stroke by connecting all such detonators in series connection and finally to the exploder. After blasting, again mazdoors are engaged on the work to clear the debris. If the result of the first blasting is not satisfactory, it should be repeated again on the same place.

iv) Warning :

There may be two reasons for unsatisfactory results of the blasting :

- a) Misfire of gelatin due to leakage for current from detonator.
- b) Over loading because of overburden

Never pull the broken wire pieces from the holes in such cases. Attempt should not be made to re-blast the misfired gelatin. The safest way is to make a fresh hole by its side and put fresh gelatin in that hole and blast it.

10. Precautions :

The abstract of Explosives Rules 1983 which are relevant to our work is given below:
Restriction of delivery and dispatch of explosives :

No person shall deliver or dispatch any explosives to any one other than a person who is the holder of a license to possess the explosives or the agent of holder of such a license duly authorized by him in writing on his behalf. OR is entitled under these rules to possess the explosives without a license.

The explosives so delivered or authorized shall in no case exceed the quantity, which the person to whom they are delivered or authorized to possess with or without a license under these rules.

No other shall receive explosives from any person other than the holder of a license granted under these rules. No person shall receive from or transfer explosives to any person for a temporary storage or safe custody in a licensed premise unless prior approval is obtained from the Chief Controller.

A person holding license for possession of explosives granted under these rules shall store the explosives only in premises specified in the license.

11. Protection from Lightning During Storing :

Every magazine shall have attached there to one or more efficient lightning conductors designed and erected in accordance with the specification laid down in Indian Standard Specifications No.2309 as amended from time to time. The connections to various parts of earth resistance of the lightning conductor terminal on the building to the earth shall be tested at least once in every year by a qualified electrical engineer or any other competent person holding a certificate of competency in this behalf from the State Electricity Department. A certificate showing the results of such tests and the date of the last test shall be hung up in conspicuous place in the building.

i) Precautions during thunder–storm:

When a thunder-storm appears to be imminent in the vicinity of a magazine or store house every person engaged in or around such magazine and store house shall be withdrawn to a safe distance from such magazine or store house and the magazine and store house shall be kept closed and locked until the thunder storm has ceased or the threat of it has passed.

ii) Maintenance of records :

Every person holding a license granted under these rules for possession, sale or use of explosives shall maintain records in the prescribed forms and shall produce such record on demand to an Inspection Officer.

iii) Explosives not be kept in damaged boxes :

The licensee of every magazine or store house shall ensure that, the explosives are always kept in their original outer package. In case, the outer package gets damaged so that the explosives contained therein cannot be stored or transported, such explosives shall be repacked only after the same are examined by controller of explosives.

iv) Storage of explosives in excess of the licensed quantity :

The quantity of any kind of explosives kept in any licensed magazine or store house shall not exceed the quantity entered in the license against such kind of explosives. No explosives in excess of the licensed quantity shall be stored in the magazine or store house unless a permit in this behalf is obtained from the licensing authority by a letter or telegram.

v) Precautions to be observed at Site :

The electric power at the blasting site shall be discontinued as far as practicable before charging the explosives. No work other than that associated with the charging operations shall be carried out within 10 meters of the holes unless otherwise specified to the contrary by the licensing authority.

When charging is completed, any surplus explosive detonators and fuses shall be removed from the vicinity of the hole and stored at a distance which should prevent accidental detonation in the event of a charge detonating prematurely in any hole. The holes which have been charged with explosives shall not be left unattended till the blasting is completed. Care shall be taken to ensure that fuse or wires connected to the detonation are not damaged during the placing of stemming materials and tamping.

vi) Suitable warning procedure to be maintained :

The licensee or a person appointed by the licensee to be in charge of the use of explosives at the site shall lay down a clear warning procedure consisting of warning signs and suitable signals and all persons employed in the area shall be made fully conversant with such signs and signals.

vii) Precautions to be observed while firing :

The end of the safety fuse if used in place of a detonator should be freshly cut before being lighted. The exploders shall be regularly tested and maintained in a fit condition for use in firing. An exploder shall not be used for firing a circuit above its rated capacity. The electric circuits shall be tested for continuity before firing. All persons other than the shot-firer and his assistant, if any, shall be withdrawn from the site before testing the continuity.

For the purpose of jointing, the ends of all wires and cables should have the insulation removed for a maximum length of 5 cms. And should, then be made clear and bright for a minimum length of 2.5 cms. And the ends to be joined should be twisted together so as to have a positive metal contact. Then these should be taped with insulation to avoid leakage when in contact with earth.

In case of blasting with dynamite or any other high explosive, the position of all the bore holes to be drilled shall be marked in circles with white paint. These shall be inspected by the Contractor's agent. Bore holes shall be of a size that the cartridge can easily pass down. After the drilling operation, the agent shall inspect the holes to ensure that drilling has been done only at the marked locations and no extra hole has been drilled. The agent shall then prepare the necessary charge separately for each bore hole. The bore holes shall be thoroughly cleaned before a cartridge is inserted. Only cylindrical wooden tamping rods shall be used for tamping. Metal rods or rods having pointed ends shall never be used for tamping. One cartridge shall be placed in the bore hole and gently pressed but not rammed down. Other cartridges shall then be added as may be required to make up the necessary charge for the bore hole. The top most cartridge shall be connected to the detonator which shall in turn be connected to the safety fuses of required length. All fuses shall be cut to the length required before being inserted into the holes. Joints in fuses shall be avoided. Where joints are unavoidable, a semi-circular niche shall be cut in one piece inserted into the niche. The two pieces shall then be wrapped together with string. All joints exposed to dampness shall be wrapped with rubber tape.

The maximum of eight bore holes shall be loaded and fired at one occasion. The charges shall be fired successively and not simultaneously. Immediately before firing, warning shall be given and the agent shall see that all persons have retired to a place of safety. The safety fuses of the charged holes shall be ignited in the presence of the agent, who shall see that all the fuses are properly ignited.

Careful count shall be kept by the agent and others of each blast as it explodes. In case all the charged bore holes have exploded, the agent shall inspect the site soon after the blast but in case of misfire the agent shall inspect the site after half an hour and mark red crosses (X) over the holes which have not exploded. During his interval of half an hour, nobody shall approach the misfired holes. No driller shall work near such bore until either of the following operations have been done by the agent for the misfired boreholes.

The contractor's agent shall very carefully (when the tamping is a damp day) extract the tamping with a wooden scraper and withdraw the primer and detonator.

The holes shall be cleaned for 30 cm of tamping and its direction ascertained by placing a stick in the hole. Another hole shall then be drilled 15 cm away and parallel to it. This hole shall be charged and fired. The misfired holes shall also explode along with the new one. Before leaving the site of work, the agent of one shift shall inform another agent relieving him for the next shift, of any case of misfire and each such location shall be jointly inspected and the action to be taken in the matter shall be explained to the relieving agent.

The Engineer-in-charge shall also be informed by the agent of all cases of misfire, their causes and steps taken in that connection.

12. General Precautions :

For the safety of persons red flags shall be prominently displayed around the area where blasting operations are to be carried out. All the workers at site, except those who actually ignite the fuse, shall withdraw to a safe distance of at least 200 meters from the blasting site. Audio warning by blowing whistle shall be given before igniting the fuse.

Blasting work shall be done under careful supervision and trained personnel shall be employed. Blasting shall not be done within 200 meters of an existing structure, unless specifically permitted by the Engineer-in-charge in writing.

i) Precautions against misfire:

The safety fuse shall be cut in an oblique direction with a knife. All saw dust shall be cleared from inside of the detonator. This can be done by blowing down the detonator and tapping the open end. No tools shall be inserted into the detonator for this purpose.

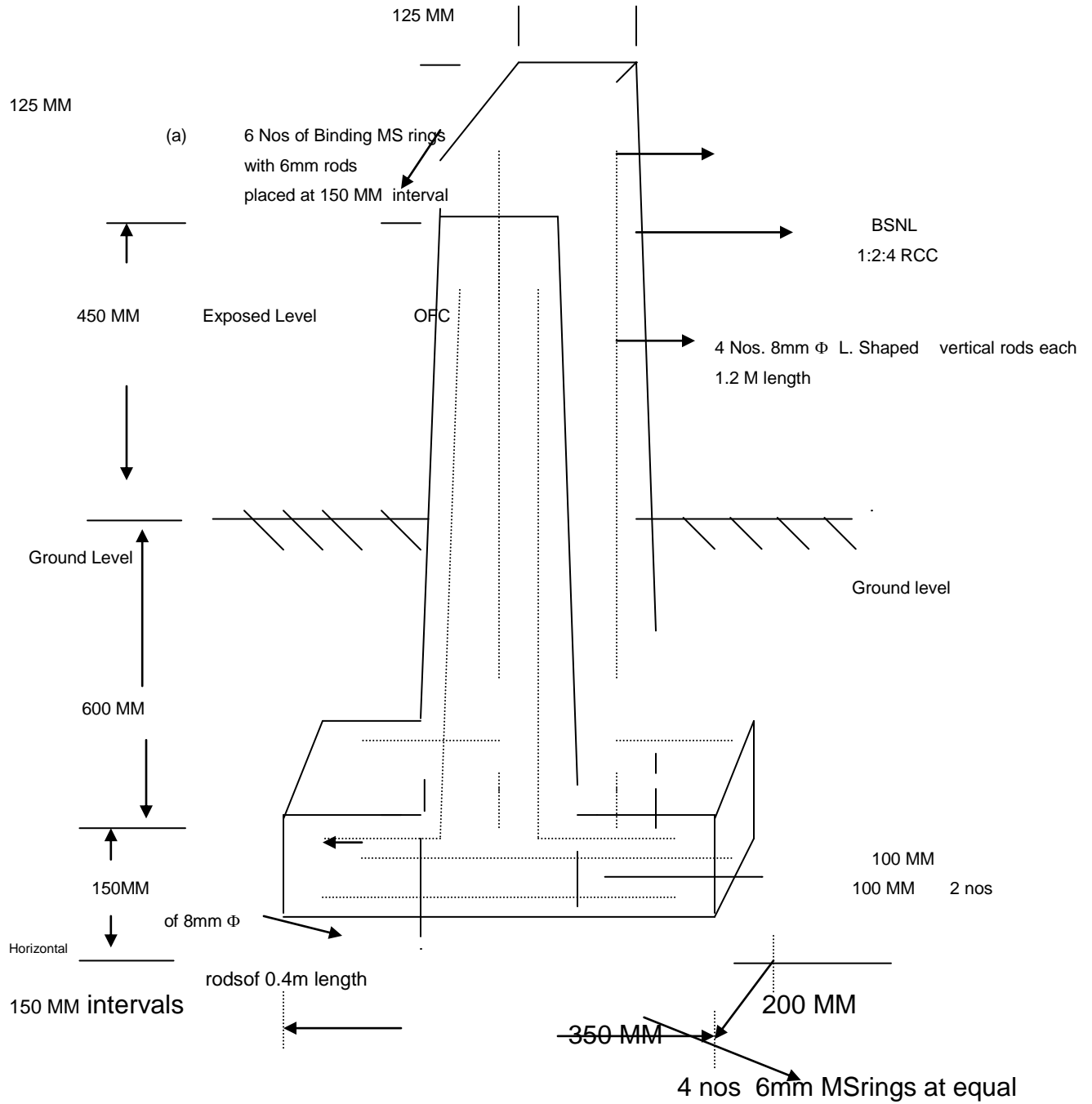
If there is water present or if the borehole is damp, the junction of the fuse and detonator shall be made water tight by means of tough grease or any other suitable material. The detonator shall be inserted into the cartridge so that about one-third of the copper tube is left exposed outside the explosive. The safety fuse just above the detonator shall be securely tied in position in the cartridge. Water proof fuse only shall be used in the damp borehole or when water is present in the borehole.

If a misfire has been found to be due to defective fuse, detonator or dynamite, the entire consignment from which the fuse, detonator or dynamite was taken shall be got inspected by the Engineer-in-charge or his authorized representative before resuming the blasting or returning the consignment.

ii) Precaution against stray currents: Where electrically operated equipments is used in locations having conductive ground or continuous metal objects, tests shall be made for stray current to ensure that electrical firing can proceed safely.

R.C.C ROUTE INDICATOR

fig A



----- END OF SECTION XIII -----

Section XIV

Near relationship certificate

1. The bidder should give a certificate that none of his/ her near relative, as defined below, is working in the BSNL **units***
In case of bidder being proprietorship firm, this certificate will be given by the proprietor. For partnership firm, the certificate will be given by all the partners.
In case of bidder being Company/Limited company the certificate will be given by all the Directors of the company, **but excluding following**:
 - a) Government of India/ Financial institution nominees and independent non-Official part time Directors, appointed by Govt. of India or the Governor of the state and
 - b) Full time Directors of PSUs, both Central and State

Due to any breach of these conditions or incorrect declarations by the bidder [Company or firm or any other person], the tender /bid submitted will be cancelled and Bid Security will be forfeited at any stage, whenever it is noticed and BSNL will not pay any damage to the company or firm or the concerned person.

***Unit**, shall be taken as following:

- (a) In case of any near relative of the bidder being non-executive employees, the “BSNL unit” is defined as “Business Area (BA)”.
- (b) In case of any near relative of the bidder being executive (up to AGM/STS level), the “BSNL unit” is defined as “BSNL Circle”.
- (c) In case of any near relative of the bidder being higher executive (DGM/JAG or higher), “BSNL unit” is defined as “BSNL as a whole”.

2. The near relatives for this purpose are defined as:-

- (a) Members of a Hindu undivided family.
- (b) They are husband and wife.
- (c) The one is related to the other in the manner as father, mother, son(s) & Son's wife (daughter in law), Daughter(s) and daughter's husband (son in law), brother(s) and brother's wife, sister(s) and sister's husband (brother in law).

2.1 The bidder should submit Near Relationship Certificate in the specified format (**Annexure-A**).

Near Relationship Certificate:

(Format of the Certificate to be given by the bidder in respect of status of employment of his/ her near relation in BSNL)

*I.....s/o.....r/o.....
hereby certify that none of my relative(s) as defined in the tender document is/are employed in any **BSNL Unit as defined in the clause in the Tender Enquiry, on Near relationship.**

OR

** Following are the details of near relatives working with the BSNL.*

S. No.	Name of the Relative	Designation	Name of the Unit (Office & section of BSNL) where working

* Strike off whichever is not applicable.

In case at any stage, it is found that the information given by me is false/ incorrect, BSNL shall have the absolute right to take any action as deemed fit/without any prior intimation to me.

Signature of the Proprietor/ Partners/ Directors of the tenderer entity

With date and seal

----- END OF SECTION XIV -----

Section XV

Annexure-B

Proforma for Experience Certificate

Name and address of the issuing office
--

No: _____ Dated _____

Subject : Experience certificate for optical fiber cable construction work.

It is certified that M/s _____ having office at _____ whose Proprietor(s)/Partner(s)/Director(s)are

_____ have successfully carried out

optical fiber cable construction work for the amount mentioned hereunder. It is certified that these amounts have been paid to the above mentioned contractor.

S.N.	Period during which payments Made		Contract No(s).	Amount paid (In Rs.)
	From	To		
1.	01-04-YYYY	31-03-YYYY+		

AGM/AO/DDO/ CTO (Chief Technical Officer) of
Circle/State/LSA in case of licensed private telecom service provider/ Equivalent Officer responsible
for maintaining contractors' ledger
Signature of office seal

----- END OF SECTION XV ----

Section XVI

Annexure-C

Declaration about Genuineness of Documents/Certificates

(to be duly filled, signed, stamped, scanned and submitted
with other documents as per clause-7 of Section-IV)

I/We..... hereby declare that the information furnished in the bid in response to the **NIT No.** -----is true and correct. I/we verify the genuineness and correctness of all documents, including experience certificates attached with the bid submitted electronically or as a hard copy. Further I also declare that I have submitted the tender document digitally signed, without any additions/deletions/modifications, as a token of having read, understood and accepted the terms and conditions therein. I am also aware that I shall be held responsible in case any document attached is found false/forged/fabricated/tempered/manipulated at any stage and the BSNL is fully competent to take any action against me/my firm as deemed fit in accordance with the terms and conditions of the contract and law of the land.

Place: Signature of tenderer / Authorized signatory.....

Date: Name of the tenderer.....

Seal of the tenderer

**CERTIFICATE TO BE SUBMITTED BY THE BIDDER AND ITS PARTNER/S IF ANY, ON
COMPANY'S/FIRM'S LETTER HEAD**

This is to certify that I/We, M/s
.....(Name & full address) as
the front Bidder of this tender and our partner, M/s.....
.....(Name & full address) have read the clause regarding restrictions on
procurement from a bidder of a country which shares a land border with India (**Order no.
F.7/10/2021-PPD (1) Dated 23.02.2023 of Procurement Policy Division, Department of
Expenditure, Ministry of Finance, Government of India**); I/ We further certify that:-

1. Model Certificate for Tenders: "I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I Certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered". [**Where applicable, evidence of valid registration by the Competent Authority shall be attached**]

2. Model Certificate for Tenders for Works involving possibility of sub-contracting:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I Certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered". [**Where applicable, evidence of valid registration by the Competent Authority shall be attached**]

3. Model additional Certificate by Bidders in the cases of specified ToT:

"I have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. I certify that this bidder does not have any ToT arrangement requiring registration with the competent authority."

OR

"I have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. I certify that this bidder has valid registration to participate in this procurement."

4. I am aware that if the certificates given by the bidder in the tender documents regarding compliance with order stated above is found to be false at any later stage, this would be ground for debarment and further legal action in accordance with law.

Signature:
Name in Block letters:
Status: Director/Manager/Partner/
the Company
[on behalf of the bidder]

Signature:
Name in Block letters:
Status: Director/Manager/Partner/ Proprietor of
Proprietor of the Company
[On behalf of partner/s]

Note: Strike out whichever is not applicable.

Format for Self Certification regarding MII/Local Content (LC) for Telecom Product, Services or Works

Date:

I.....S/o, D/o, W/o, Resident of do hereby solemnly affirm and declare as under. That I agree to abide by the terms and conditions of Department of Telecommunications, Government of India/ Department for Promotion of Industry and Internal Trade issued in reference to Public Procurement (Preference to Make In India), Order 2017 its subsequent amendments, guidelines, revisions etc.

That the information furnished hereinafter is correct to best of my knowledge and belief and I undertake to produce relevant records before the procuring entity or any other authority so nominated by the Department of Telecommunications, Government of India for the purpose of assessing the LC.

That the LC for all inputs which constitute the said Telecom Product/ Services/ Works has been verified by me and I am responsible for correctness of the claims made therein.

That in the event of the LC of the Telecom Product/ Services/ Works mentioned herein is found to be incorrect and not meeting the prescribed LC norms, based on the assessment of an authority so nominated by the Department of Telecommunications, Government of India and I will be liable as under clause 9 of **Public Procurement (Preference to Make in India) Order 2017**.

I agree to maintain all information regarding my claim for LC in the Company's record for a period of 2 years and shall make this available for verification to any statutory authorities.

- i. Name and details of the Local supplier (Registered Office, Manufacturing unit location, nature of legal entity) :
- ii. Date on which this certificate is issued :
- iii. Telecom Product/Services/Works for which the certificate is produced :
- iv. Procuring agency to whom the certificate is furnished :
- v. Percentage of LC claimed :
- vi. Name and contact details of the unit of the manufacturer :
- vii. Sale price of the product :
- viii. Ex-Factory Price of the product :
- ix. Freight, insurance and handling :
- x. Total Bill of Material :
- xi. List and Total cost value of inputs used for manufacture of the Telecom Product/ Services /Works :
- xii. List and Total cost of inputs which are locally sourced. Please attach LC certificate from local suppliers, if the input is not in-house :
- xiii. List and cost of inputs which are imported, directly or indirectly:

For and on behalf of _____ (Name of Firm/ Entity)

Authorized signatory (To be duly authorized by the Board of Directors)

<Insert Name, Designation and Contact No. and date>

Non-Blacklisting declaration
(To be given on Company Letter Head)

Date:

To,
.....
.....
.....

Sub: Declaration for Non-Blacklisting.

Tender Reference No:

Name of Tender / Work: -
.....

Dear Sir,

We hereby declare that we are not blacklisted/de-registered/debarred by any Central/ State Government/ agency of Central/ State Government of India or any other country in the world/ Public Sector Undertaking/ any Regulatory Authorities/any Licensed Private Telecom Service Provider in India or any other country in the world for any kind of fraudulent activities or non-performance.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

Name of the Bidder:-

----- END OF SECTION XVI -----

SECTION XVII

**SAMPLE APPLICATION FOR DEPTH RELAXATION IN CASE OF
ACHIEVING LOWER DEPTH**

To
The Engineer-in-Charge,
.....

Sub : Approval for lower depth than 200/165/135/90 cms (depending on the terrain
and method of execution as applicable)

Ref : Work Order No.....

Sir,

In the following section lengths the normal depth of(as prescribed) could not be
achieved due to reasons stated against each section vide above reference work order.
Your approval is requested.

Sl.No	Section No.	Location From	Location To	Length in Mtrs.	Actual Depth Achieved in Mtrs.	Reason
1						
2						
3						

Yours faithfully,

Name of the Bidder with address & date.

Recommendation of the Site-in-Charge.

----- END OF SECTION XVII -----

SECTION XVIII

RATE OF EMPTY CABLE DRUM

These are the rate of the empty cable drums which have to be deducted from contractor bills as per tender document.

<i>Sl.No.</i>	<i>Particulars of drum</i>	<i>Rate of disposal</i>
1	Optical Fibre cable drum 24F/12F/48F	Rs.300/- per empty cable drum

Note: -These are fixed rates and no variations shall be acceptable from these rates.

Signature of the Bidder with seal

----- END OF SECTION XVIII -----

SECTION XIX

Schedule of quantities stipulated under this tender and rates

A-Broad details of work put to tender

1	Tender No and Date	RJCO-23/11(11)/13/2024-TX AND MM date 27.09.2024
2	Name of the work	Laying PLB pipe/ Duct and Associated works by Open Trench Method/Trenchless Technology, Optical Fiber Cable Pulling/Blowing and splicing works etc., for laying of OFC for OFC Construction Work in Jaisalmer operation Area (OA) of Jodhpur BA.
3	Name of Route/Area (such as Block/SDCA...)	OFC lying from Bachiya - THOROI TO LANGTALA (35 BN) of Jaisalmer OA of Jodhpur BA as mentioned in Scope of work.
4	Route Length (approx.)	90 KM
5	Estimated cost	Rs. 1,11,15,305/-
6	EMD Deposited (2%)	a) Rs. 222306/- b) Number.....& date c) Name of the bank d) Branch

LABOUR COST CALCULATION FOR OFC LAYING WORKS - 35 BN BSF (THOROI TO LANGTALA) JSM OA 90KM

S. No.	Description of Item	Schedule Qty.		Unit Rate			Amount.(Rs.)
1.0	Rate for excavating trenches upto a depth of 1.65m and back filling the excavated trenches after laying the HDPE / PLB pipe with or without protection as per tender specification.						
	(i) In Kuccha Soil	80000	M	Rs.	56.00	per M	4480000
	(ii) In Pucca Soil	4500	M	Rs.	77.00	per M	346500
	(iii) In Rocky Soil	4500	M	Rs.	500.00	per M	2250000
1.1	Laying of PLB pipe duct through HDD method as per Engineering instructions. (Department will supply HDPE/PLB pipe in Coils of various length,HDPE/PLB Sockets/Coupler, End caps.)						
	a) Single PLB pipe.	1000	M	Rs.	180.00	per M	180000
	b) Two to three pipes in bunch	0	M	Rs.	240.00	per M	0
	c) Four to seven pipes in bunch	0	M	Rs.	300.00	per M	0
	d) Single pipe	0	M	Rs.	2050.00	per M	0

	in Hard rocky strata						
2.0	Laying, Jointing and leveling of PLB/HDPE pipe of 40mm dia including transportation.						
	i) Laying of Single HDPE / PLB Pipes/Coils, coupled with coupler.	89000	M	Rs.	4.50	per M	400500
	ii) Laying of Two HDPE / PLB Pipes/Coils, coupled with coupler.	0	M	Rs.	9.00	per M	0
	iii) Laying of Three HDPE / PLB Pipes/Coils, coupled with coupler.	0	M	Rs.	13.50	per M	0
2.1	Road/Rail crossing through horizontal boring method (manual / Mechanical) and inserting 65/40 dia GI Pipes and pushing (HDPE / PLB Pipes/Coils inside.(i) Depth shall be 2M and above without GI protection.(ii) Depth is less than 2M with	0	M	Rs.	180.00	per M	0

	GI Protection as applicable. (Department will supply GI pipes in lengths of approx. 6M, HDPE/PLB pipes/Coils.)						
2.2	Laying, Jointing, Leveling, fitting and fixing G.I. Pipe with PLB/HDPE pipes/coils in trenches. (Department will supply G.I. Troughs/GI pipes in lengths of approx. 6M, clamps, HDPE/PLB pipes/Coils)						
	(a) 65mm/40mm dia G.I. Pipe	0	M	Rs.	14.00	per M	0
	(b) G.I. Pipe of dia from 80mm to 150mm	0	M	Rs.	21.00	per M	0
2.3 (i)	Laying, Jointing, leveling, fitting and fixing of GI pipe of dia 65 mm to 100mm with PLB/HDPE on bridges and culverts and fixing with clamps and nails. (Department will supply G.I. Troughs/GI Pipes in lengths	100	M	Rs.	115.00	per M	11500

	of approx. 6 M, HDPE/PLB Pipes/Coils). (Clamps, nails & accessories will be arranged & supplied by the Contractor)						
2.3 (ii)	Laying, Jointing, leveling, fitting and fixing of GI pipe of dia more than 100mm to 150mm with PLB/HDPE on bridges and culverts and fixing with clamps and nails. (Department will supply G.I. Troughs/GI Pipes in lengths of approx. 6 M, HDPE/PLB Pipes/Coils). (Clamps, nails & accessories will be arranged & supplied by the Contractor).	0	M	Rs.	185.00	per M	0
2.3 (iii)	Fixing of GI pipe in the normal trench with lesser depth/wheel guard/curb of road/bridges and culverts and fitting HDPE/PLB pipe 40mm dia and providing						

	CC of 1:2:4. (Department will supply G.I. Troughs/GI Pipes in lengths of approx. 6 M, HDPE/PLB Pipes/Coils). (CC material will be supplied by contractor).						
(a)	15Cm.* 15Cm CC over 65mm dia GI Pipe	0	M	Rs.	75.00	per M	0
(b)	20Cm.* 20Cm CC over 65mm dia GI Pipe	0	M	Rs.	135.00	per M	0
(c)	25Cm.* 25Cm CC over 65mm dia GI Pipe	0	M	Rs.	200.00	per M	0
(d)	25Cm.* 25Cm CC over 40mm dia PLB Pipe	0	M	Rs.	210.00	per M	0
2.3 (iv)	Cubic Meter rate for CC (Applicable for CC work other than dimensions at S.No. 2.3 (iii) and 2.3 (v)).	0.0000	Cu.M	Rs.	4100.00	per Cu.M	0
2.3 (v)	Fixing of GI pipe in the normal trench with lesser depth/wheel guard/curb of road/bridges and culverts and fitting HDPE/PLB pipe 40mm dia and providing RCC enclosing GI pipe with CC of 1:2:4 with 4 no. of						

	6mm dia iron rods with rings at intervals of 0.5m of 6mm dia. (Department will supply G.I. Troughs/GI Pipes in lengths of approx. 6 M, HDPE / PLB Pipes/Coils). (RCC material will be supplied by the contractor).						
(a)	15Cm.* 15Cm RCC over 65mm dia GI Pipe	0	M	Rs.	130.00	per M	0
(b)	20Cm.* 20Cm RCC over 65mm dia GI Pipe	0	M	Rs.	190.00	per M	0
(c)	25Cm.* 25Cm RCC over 65mm dia GI Pipe	0	M	Rs.	255.00	per M	0
(d)	25Cm*25Cm RCC over 40mm dia PLB Pipe	0	M	Rs.	315.00	per M	0
2.3 (vi)	Fixing of GI pipe in the normal trench with lesser depth/wheel guard/curb of road/bridges and culverts and fitting HDPE/PLB pipe 40mm dia and providing RCC enclosing GI pipe with CC of 1:2:4	0					0

	with Weld Mesh. (Department will supply G.I. Troughs/GI Pipes in lengths of approx. 6 M, Weld Mesh, HDPE / PLB Pipes/Coils). (CC material will be supplied by the contractor). The rates of CC as in s.no.2.3 (iii)/2.3(iv) (as the case may be) will be applicable for RCC with Weld Mesh.						
(a)	15Cm.* 15Cm CC over 65mm dia GI Pipe	0	M	Rs.	75.00	per M	0
(b)	20Cm.* 20Cm CC over 65mm dia GI Pipe	0	M	Rs.	135.00	per M	0
(c)	25Cm.* 25Cm CC over 65mm dia GI Pipe	0	M	Rs.	200.00	per M	0
(d)	25Cm.* 25Cm CC over 40mm dia PLB Pipe	0	M	Rs.	210.00	per M	0
(e)	Cubic Meter rate for CC (Applicable for CC work other than dimensions at S.No. (a), (b), (c) & (d)).	100.00	Cu.M	Rs.	4100.00	per Cu.M	410000
2.4 (i)	Laying full round RCC/DWC Pipes (All sizes) in						

	trenches with HDPE / PLB pipes / coils inside for item no. 1.0 (Department will supply full round RCC/DWC Pipes, HDPE/PLB pipes/coils).						
	(a) Full Round RCC pipe	500	M	Rs.	16.00	per M	8000
	(b) Full Round DWC pipe	500	M	Rs.	9.00	per M	4500
2.4 (ii)	Laying Split RCC/DWC Pipes (All sizes) in trenches with HDPE / PLBpipes / coils inside . for item No.1.0 (Department will supply Split RCC/DWC Pipes, HDPE/PLB Pipes/Coils).						
	(a) Split RCC pipe	100	M	Rs.	8.00	per M	800
	(b) Split DWC pipe	100	M	Rs.	4.50	per M	450
3.0	(i) Opening of Manholes, Blowing of O.F. Cable, Sealing of HDPE / PLB Pipes by Rubber Bushes in Manholes, providing HDPE/RCC/D						

	WC Split Pipes in manhole and Back Filling of Manholes.						
	(a) In new Pipe	90000	M	Rs.	8.00	per M	720000
	(b) In Existing duct	0	M	Rs.	12.00	per M	0
4.0	Ribbon Splicing						
	(a) Splicing of 288F OF cable	0	No.	Rs.	12000.00	per Joint termination	0
	(b) Splicing of 96F OF cable	0	No.	Rs.	7500.00	per Joint termination	0
	(c) Splicing of 48F OF cable	0	No.	Rs.	5500.00	per Joint termination	0
	Conventional Splicing						
	(a) Splicing of 24F OF cable at SJC/BJC/FTB/ Splitter locations	45	No.	Rs.	4000.00	per Joint termination	180000
	(b) Splicing of 12F OF cable	0	No.	Rs.	3000.00	per Joint termination	0
	(c) Branch Jointing (Making Branch Joint of the incremental O.F. Cable with existing O.F. Cable)	0	No.	Rs.	4000.00	per Joint termination	0
5.0	Digging of pit for jointing chamber construction of brick chamber, fill- ing of brick Chamber with clean sand, supply and placing of stone slabs on brick chamber, and back filling of jointing pit.(Including cost	0	No.	Rs.	4500.00	per Jointing Chamber	0

	of material i.e. Bricks, Slabs, sand etc.)						
5.1	Digging of pit for jointing chamber, Fixing of Pre-cast RCC chamber, filling of RCC chamber with clean sand, placing of Pre-cast RCC slabs on RCC chamber, and back filling of jointing pit including supply of Pre Cast RCC Chamber and Slabs as per tender specifications.	45	No.	Rs.	4500.00	per Jointing Chamber	202500
5.2	Construction of RCC Manhole : Providing, Construction & Fixing of RCC Manholes at site as per construction specification given in the tender document, work includes excavation of pits for the manhole.(All material will be arranged by the contractor)	0	No.	Rs.	42000.00	Per Manhole	0

6 (i)	<p>Fixing of Stone/RCC route Indicator supplied by department including Digging of pit 1 meter towards jungle side or road side or on the trench/manhole /joint chamber for fixing of route/joint indicator, Painting & Sign writing on Route/Joint Indicators.</p> <p>Fixing Indicators with CC 0.45 M x 0.35 M. x 0.15 M. in ratio of 1:2:4 (CC material will be supplied by the contractor) in 0.6 M.x 0.6 M. x 0.7 M. Pit.</p>	450	No.	Rs.	160.00	Per Indicator	72000
6(ii)	Supply of RCC or Stone route/joint Indicators as per Tender Construction Specification .	450	No.	Rs.	260.00	Per Indicator	117000
7.0	Documentation (6 hard copies & 1 soft copies in CD) containing diagram and all details including Lat/Long of each	90.000	Km.	Rs.	250.00	Per Km.	22500

	Joint/Route indicator on good quality paper.						
8.0	Recovery against empty cable drum	45	No.	Rs	300.00	Per Drum	-13500
9.0	(i) Laying of OF Cable in corridor/rises/exchange premises (leading in work)	0	M	Rs.	10.00	per M	0
	(ii) Laying & fixing of 65/40/25mm GI Pipes/Kietic pipe vertically along the wall by GIU clamps with PLB inside it & drawing PP rope inside the pipe.	0	M	Rs.	60.00	per M	0
	(iii) Fixing/clamping kietic pipe/DWC/GI Pipe horizontally along the wall (including the clamping fixing material)	0	M	Rs.	20.00	per M	0
	The Department will supply protection pipes & OF Cable. The contractor shall arrange all other materials required for the work.						

10.1	Road Restoration work with bituminous macadam for semigrouting 50mm thick and premix carpet surfacing 25mm thick over the grouted surface (total upto 75mm thick),including supply of asphalt etc. to evenly match the road, including consolidation and rolling as per standard specification of DSR 1997.	0	M	Rs.	90.00	Per M	0
10.2	Road restoretion work with cement concrete 1:4:8 mix for thickness varying from 150mm to 225mm, including supply of concrete to evenly match the road.	0.000	Cu.M	Rs.	1600.00	per Cu.M	0
11.0	Videography of the route on which cable is laid.	90.000	Km.	Rs.	300.00	Per Km.	27000
12.0	Physical Mounting of FDMS on wall	0	No.	Rs.	250.00	Per FDMS	0

	at OLT locations						
						Total=	9419750
The contractor shall arrange all other materials required for the work.							
Note-1 :- Given Scheduled quantity is indicative only, it may vary during the execution of works and quantity whole or in parts will be executed as per direction of the Site Incharge.							

- The above Schedule of Rates are inclusive of all levies and charges but excluding GST which shall be paid extra as applicable.
- The payment of **item No.1 (i.e. Execution of trenches)** shall be limited to approved average running rate per meter of the item No.1 irrespective of variation in quantity of individual sub items under this item, excepting the scenario wherein variation is warranted due to statutory requirement which was not stipulated in survey and incorporated in SOR/quantity earlier.
- The list of items mentioned above is not exhaustive and it may be suitably modified as per requirement of the Circle/Field units with scope of work precisely defined for each item in the tender document.

SECTION XX
Financial Bid
Schedule for Quoting the Rates

To

The -----
BSNL,-----

Sub : **Our bids for** Optical Fiber Cable construction work for the route -----

This tender No......

Ref: NIT No.-----

Dear Sir,

Having examined the tender documents, terms and conditions stipulated therein, specifications of work etc., we the under signed offer to execute the Optical Fiber Cable construction work for the route (NAME OF THE ROUTE) in this tender in conformity with the said specifications and conditions of contract, at the percentage (below / at par/ above) on route wise schedule of quantities and estimation of cost of works put to tender mentioned in the tender document (Section- XIX) quoted as under:

BELOW	In figure.....%
	In words.....percent
	OR
AT PAR	In words.....
	OR
Above	In figure.....%
	In words.....percent

For the purpose of GST, applicable SAC is

If our Bid is accepted we shall submit the securities as per the conditions mentioned in the tender document.

We agree to abide by this bid for a period of **180 days** from the date of opening of qualifying bid and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

Dated...../...../.....

Signature of the tenderer.....
Name of Tenderer.....

Note: Tenderer should quote the rates keeping in view that quoted rates are inclusive of all charges and levies but exclusive of Goods & Service tax (GST). Goods & Service tax (GST) will be paid extra, as applicable.

----- **END OF SECTION XX** ----