

### Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	10-04-2025 13:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	10-04-2025 13:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	150 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Communications
Department Name/विभाग का नाम	Department Of Telecommunications (dot)
Organisation Name/संगठन का नाम	Bharat Sanchar Nigam Limited Portal(bsnl)
Office Name/कार्यालय का नाम	Cgm Cntx North Eastern Court Complex New Delhi
क्रेता ईमेल/Buyer Email	sudhendra.bsnl@bsnl.co.in
Item Category/मद केटेगरी	Cluster Outsourcing for Maintenance of Landline and Broadband network – OFC Network - Optical Fibre Cable; Attending all types of cable faults
Contract Period/अनुबंध अवधि	1 Year(s)
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	25 Lakh (s)
Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	5 Year (s)
Past Experience of Similar Services required/इसी तरह की सेवाओं का पिछला आवश्यक अनुभव है	Yes
MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छूट	No
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria,Bidder Turnover,Certificate (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer

Bid Details/बिड विवरण	
Do you want to show documents uploaded by bidders to all bidders participated in bid?/	No
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	Yes
RA Qualification Rule	H1-Highest Priced Bid Elimination
Type of Bid/बिड का प्रकार	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	3 Days
Estimated Bid Value/अनुमानित बिड मूल्य	4956000
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation
Arbitration Clause	No
Mediation Clause	No

#### EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
EMD Amount/ईएमडी राशि	123000

#### ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
ePBG Percentage(%) / ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months) / ईपीबीजी की अपेक्षित अवधि (महीने).	18

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

#### Beneficiary/लाभार्थी :

AO(Cash) HQ, BSNL, NTR, New Delhi  
 AO(Cash) HQ, BSNL, NTR, New Delhi A/c No. : 307801010917560 IFSC: UBIN0530786 ,CGM CNTX NORTH EASTERN COURT COMPLEX NEW DELHI, Department of Telecommunications (DOT), Bharat Sanchar Nigam Limited Portal(BSNL), Ministry of Communications  
 (Ao Cash Hq,bsnl Ntr New Delhi)

#### MII Compliance/एमआईआई अनुपालन

MII Compliance/एमआईआई अनुपालन	Yes
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#### **MSE Purchase Preference/एमएसई खरीद वरीयता**

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

2. Years of Past Experience required: The bidder must have experience for number of years as indicated above in bid document (ending month of March prior to the bid opening) of providing similar type of services to any Central / Stat Govt Organization / PSU. Copies of relevant contracts / orders to be uploaded along with bid in support of having provided services during each of the Financial year.

3. Purchase preference to Micro and Small Enterprises (MSEs): 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. If the bidder wants to avail the Purchase preference for services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered service. If L-1 is not an MSE and MSE Service Provider (s) has/have quoted price within L-1 + 15% of margin of purchase preference /price band as defined in the relevant policy, then 100% order quantity will be awarded to such MSE bidder subject to acceptance of L1 bid price. The buyers are advised to refer to the

[OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if the credentials of the service provider are validated on-line in GeM profile as well as validated and approved by the Buyer after evaluation of submitted documents.

4. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

5. Past Experience of Similar Services: The bidder must have successfully executed/completed similar Services over the last three years i.e. the current financial year and the last three financial years(ending month of March prior to the bid opening): -

1. Three similar completed services costing not less than the amount equal to 40% (forty percent) of the estimated cost; or
2. Two similar completed services costing not less than the amount equal to 50% (fifty percent) of the estimated cost; or
3. One similar completed service costing not less than the amount equal to 80% (eighty percent) of the estimated cost.

6. Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:

- i. If number of technically qualified bidders are only 2 or 3.
- ii. If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
- iii. In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1.
- iv. If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1
- v. If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1

#### **Additional Qualification/Data Required/अतिरिक्त योग्यता /आवश्यक डेटा**

**Scope of Work to be mentioned by Buyer:** [1743057699.pdf](#)

## Cluster Outsourcing For Maintenance Of Landline And Broadband Network - OFC Network - Optical Fibre Cable; Attending All Types Of Cable Faults ( 1 )

### Technical Specifications/तकनीकी विशिष्टियाँ

Specification	Values
<b>Core</b>	
Maintenance work for network	Optical Fibre Cable
Category of work	Attending all types of cable faults
<b>Addon(s)/एडऑन</b>	
Laying Down of New Cable(In case of damage of existing optical fibre)	NA
<b>Additional Details/अतिरिक्त विवरण</b>	
Name of Cluster	SLA based Outsourcing of OF cable in Amarnathji Yatra OFC Srinagar Division Jammu & Kashmir

### Additional Specification Documents/अतिरिक्त विशिष्टि दस्तावेज़

### Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी

S.No./क्र. सं.	Consignee Reporting/Officer/परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Number of Clusters	Additional Requirement/अतिरिक्त आवश्यकता
1	Altaf Hussain Guru	181123,O/o DGM TP,Near Telephone Exchange Building, Jammu-181123	1	<ul style="list-style-type: none"><li>Approximate kms for maintenance of Optical Fibre during contract period : 132</li></ul>

### Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

#### 1. Generic

OPTION CLAUSE: The buyer can increase or decrease the contract quantity or contract duration up to 25 percent at the time of issue of the contract. However, once the contract is issued, contract quantity or contract duration can only be increased up to 25 percent. Bidders are bound to accept the revised quantity or duration

#### 2. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

#### 3. Buyer Added Bid Specific Scope Of Work(SOW)

**SCOPE OF WORK**

The tender is being floated for Outsourcing of SLA Based Comprehensive Maintenance of Optical Fiber cable (OFC) for Jammu & Kashmir territory of CN Tx-North circle. The work includes preventive maintenance of the cable to avoid the faults/ cable cuts, repair of faults if it occurs. The OFC route will be handed over to the contractor after a joint survey of route in charge and representative of the contractor. Contractor has to deploy a Fault Restoration Team accordingly at sufficient designated place to maintain the OFC as per SLA.

**FRT FOR Shri Amarnath ji Yatra Holy Cave Cables (132Km) of Srinagar Division**

<b>Section number</b>	<b>Location of Outsourced FRT</b>	<b>Section detail</b>	<b>Type of OFC</b>	<b>OFC RKM to be Outsourced (Road Length) in KMs</b>
1	Khanabal - Chandanwari	Khanabal Army- Anant nag Exge- Mattan- Ashmuqam- Nunwan- Mamal- PahalgamChandawar	48F U/G Ribbon Type (Without sensor)	67
2	Chandanwari - Holy Cave	Chandawari- Pisu Top- Sheshnag- MG TopPoshpathri- Panchtani- Sangam Top- Holycave		38
3	Holy Cave - Domail	Holycave -Domail		16
4	Branch cables	Tapping/Spurs for connecting BSNL BTS & Exchanges		11
		<b>Total</b>		<b>132 Kms (Approx.)</b>

Scope of work of the contract includes: To provide man power/ machines for

- 1). Protection work of Cable during Road widening / Drainage / Canal / pipeline works as assigned
- 2). Temporary / Permanent Restoration of OF Cable during OF Cable faults due to Road widening / Drainage / Canal / pipeline works
- 3). Reinstatement of Already overhead OF cable section
- 4). Making existing cable over head for protection / restoration of faults
- 5). Permanent reinstatement of damaged / over head cable / patches developed during the tender contract Period & associated civil works.
- 6). Recovery of over head OF cable after completion of reinstatement work.

This scope and specification covers the preventive maintenance, scheduled and planned Maintenance and break down corrective maintenance activities to be carried out by the contractor for OFC routes of BSNL. The route index drawings will be provided to the contractor by BSNL during the

currency of the maintenance contract. However, the locations of the cable as reflected in the drawings/ details are indicative only and it is the responsibility of the contractor to determine the actual location along the routes. At certain sections multiple OFC cables have been laid on the same trench/ other side of the road. The bidder is required to visit the sites and ascertain the geographical conditions and its latest status. In view of road widening, some portion of OFC has come under tar surface of the road and at some place OF cable has been drawn on overhead temporarily.

The detailed scope of contract is as under:

### **1. Preventive Maintenance:**

Sufficient number of SLA Based Party subject to minimum one FRT for every 300 Km or part thereof if specified in tender document in normal terrain & 250 Km or part thereof if specified in tender document in hilly area along with sufficient number of Vehicle, Man, Machine must be stationed at mid station of the route to have a quick movement to fault on either side. The fault must be attended within 4 hours to avoid penalty charges as per SLA. When there is no fault the OFC improvement works such as attending break fibers, splice losses, minimization of Joints and positioning of route/joint indicators and chambers as per instruction from site Engineer. Route Patrolling should start early in the morning from both the ends or towards both the ends to have strict vigil on occurrence of fault.

- 1.1 The primary focus is to **avoid the occurrence of OFC cuts** with intensive patrolling and Surveillance along the OFC routes.
- 1.2 Contractor has to keep good rapport and co-ordination with the all Government and Non-Government bodies/ authorities and also farmers/ land owners to collect their plan of activities for the routes, which may prevent damages to the OF Cables.
- 1.3 There shall be one patrolling team per stretch for distances up to 100 km cable route, for patrolling the allotted stretches. **Route length shall be in physical road length and not OFC length.** The exact route length shall be ascertained by the Contractor after conducting a Joint inspection / Survey along with the designated officer of BSNL. The survey report shall be duly signed and submitted by the designated authorities from both the parties within **10 days from the date of APO.** The Contractor shall deploy the following manpower along a route of 100 Km for patrolling:
  - a) 1 No. of Patroller with Motorcycle.
  - b) 1 No. of Reliever for Patroller.
- 1.4 Contractor shall arrange trained manpower to replace any regular member of the patrolling team who may be absent on grounds of sickness/leave/emergency or as the case may be. Under no circumstances shall any stretch of the OFC route be left un-patrolled on any grounds whatsoever.
- 1.5 The Patroller of the Contractor has to patrol entire section of 100 km to and fro daily in any route as per field requirement, irrespective of holidays. However, the contractor shall carry out the additional patrolling whenever it is necessary as per the actual site conditions. The patrolling timings shall vary as per the actual requirements. The patrolling teams have to be vigilant in respect of OF routes where road expansion/construction activities are in progress.
- 1.6 The patrolling teams shall be available on 24 hours basis on all the days in a week on Mobile phone for information about any potential activity that may cause damage to OFC along the route.
- 1.7 The patrolling team shall have two mobile phone connections from different service providers Out of which one shall be from BSNL. This is required for ensuring the uninterrupted communication during unforeseen situations.
- 1.8 The patrolling team shall call from predetermined landline telephone numbers en-route to the designated officer of BSNL, for informing that the patroller has reached the locations and also to brief the events noticed during patrolling.
- 1.9 While patrolling, the Patroller has to keep a close watch on the OFC as well as activities going on around it and make all necessary observations. The Contractor shall also closely liaison with the following authorities so as to update himself with the proposed works that may be executed by them in near future. The Contractor shall safeguard BSNL OFC against any signs of damage or potential damages, which is required to avoid OFC cuts that may arise during the execution of works by those authorities/ agencies. The Contractor shall take suitable precautionary steps in consultation with designated officer of BSNL ahead of time, such as **re-routing of OFC either underground or overhead**, providing additional protection to the existing alignment etc. The activities which are likely to cause damages to OF cable are as under: -
  - i) National Highway works such as widening of roads, embankment works, major bridge, sub-way,

- Flyover, culvert works and tar melting work on the cable routes, which may cause damage to the cable.
- ii) State Highways, R&B Departments as mentioned above.
  - iii) Water Supply Department works may trench on our cable route and as such extreme care is to be taken.
  - iv) Railway department works such as construction of over bridges/ under bridges, etc.
  - v) Forest department works, such as plantation / removal of trees on the cable routes, which may cause damage to cable.
  - vi) Electricity board works like trenching on our cable routes, erection /removal of electricity boards posts on cable routes, etc.
  - vii) Other Telecom Operators activities like trenching, HDD (Horizontal Directional Drilling), erection of Telegraph posts etc., and the like by other local telephone/BSNL working parties.
  - viii) Any and all Central / State / District / Municipal / Local / Panchayat/ Political Authorities / Agencies / Bodies, etc.
  - ix) Putting up of pandals, by social organizations in connection with the visit of VIP meetings and functions.
  - x) and Municipal Authorities of the area.
  - xii) Excavation / Renovation work being undertaken by private land owners through which BSNL OFC is passing.
  - xiii) Any other works/ activities which may damage the BSNL OF Cable.
- 1.10 Contractor has to keep a good rapport and effective coordination with local bodies/ agencies including those mentioned above, of their proposed activities which may pose a threat to the OFC. On receipt of any such information the Contractor must immediately inform the designated officer of BSNL and undertake all precautionary measures including temporary/ permanent rerouting of cable either by underground or overhead works that will prevent any harm or damage to the OFC and will save the revenue of the company.
  - 1.11 If the Patroller observes that work is being carried out in and around the OFC route alignment by any Contractor/ Individuals, he must take charge of the situation, take preventive action immediately and inform the designated officer of BSNL. He must proceed on his further patrolling duties after handing over charge of the situation to a Reliever from the Contractor's team.
  - 1.12 Contractor also has to ensure that, the Route indicators already placed at regular intervals along the routes are not stolen. The missing/ damaged indicators if any shall be planted by the contractor as per BSNL specifications for which the indicators will be supplied by BSNL.
  - 1.13 In certain situations where the weather does not permit patrolling by motor cycle, then a vehicle / public transport shall be engaged for the purpose of patrolling.
  - 1.14 **By Walking along the path** where overhead OF cable is laid, the condition of the overhead OF cable shall be monitored. In case of any sagging of the overhead alignment, immediate action shall be taken by the contractor to correct it as per the advice of designated officer of BSNL.
  - 1.15 The contractor will provide vehicle for the joint visit of his supervisor and route incharge (SDE/JTO) for the monitoring of the route twice a month during the period of tender.
  - 1.16 Contractor has to maintain Management Information System (MIS) reports on a regular basis as per BSNL approved formats and will submit to the designated officer of BSNL within the specified time limits.
  - 1.17 The Patrolling Team shall record its observations in the register kept at BSNL designated locations and shall also convey the same to respective designated officer of BSNL.

#### **Patrolling and supervision: -**

The contractor should arrange to depute one supervisor on the report of patrolling person if there is any work going along the route which will be of long duration such as widening and leveling of road, sewerage works, highway digging and construction, uprooting of trees or large maintenance work on highways. The contractor should arrange to send the supervisor/team for the protection and keeping watch for the safety of BSNL of network during the duration of completion of work and ensure fault free network for the BSNL. The supervisor will be responsible for contacting the FRT of contractor and arrange for restoration of the network as per tender requirement in the event of any fault to the network. Regular information to the concerned BSNL Officer will be the responsibility of the supervisor arranged by the contractor.

One FRT is to be placed for upto every 300kms/250kms part of thereof if specified in tender document of OFC route in normal terrain and hilly terrain respectively as per latest BSNL guidelines. Fault team and patrol team of FRT will use BSNL app for tracking (Transnet). BSNL may ask to use any third party app for tracking purpose. Day-wise tracking record will be preserved and submitted with the monthly invoice. However, if tracking is not possible due to network coverage issue or any other reason, the certificate from the concerned DE/AGM is to be submitted with the invoices.

## **2. Corrective Maintenance:**

- 2.1 The OFC cuts can happen due to the activities of various agencies as listed at clause 1.9 above or due to any other reason. In spite of the efforts of the contractor to prevent the cable cuts, if cable cuts occur, the contractor shall restore the fault within the permissible time period as specified at clause 12 under SLA. The fault restoration shall be done on a permanent basis.
- 2.2 However it may not be practical to do permanent restoration of all cases. Wherever it is not able to restore the fault permanently, temporary restoration can be resorted to avoid traffic loss at contractor's own cost and permanent restoration can be done subsequently by the contractor under scheduled & planned OFC improvement works.
- 2.3 The corrective maintenance activities to be carried out by the contractor are broadly classified as under:
- a) Localization of OFC breaks
  - b) Obtaining permissions from the concerned local authorities
  - c) Excavation of earth to expose cable for fault rectification
  - d) Identification of broken OFC ends and laying additional OFC
  - e) Laying of required length of OFC with protection wherever required
  - f) Testing of fibers
  - g) Preparation of jointing pit and back filling of pit with Sand, soil etc.
  - h) Splicing of cable
  - i) Construction of joint chamber for OFC joint
  - j) Planting of cable Route indicators and Joint indicators
  - k) Final Testing of OFC splices loss at the joint from the terminal station using power meter.
  - l) **Final updation of route index diagrams with longitude and latitude of joint pit/hand holes.**
- 2.4 On receipt of information of OFC fault, the Fault repair team (FRT) shall move immediately for locating and rectifying the fault as per the response time specified at clause 12.0, under SLA in this section.
- 2.5 After attending the fault, and ensuring the splice loss is within limits as specified above, the route index diagram shall be updated by incorporating the new details like OFC coils used at the joint and other locations. The specification of OFC splicing work is furnished at ANNEXURE-4.
- 2.6 Response time is the time taken by the Contractor to mobilize (set in motion) all the necessary resources (like materials, labour and equipment) required for attending the fault. It shall be maximum **half-an-hour** from the time BSNL so advises, and the intimation to the contractor will be through SMS/ E-mail/ telephone.
- 2.7 Restoration of all systems / fibers in the OF cable shall be ensured **within 4 hours** and in extreme cases only where the permanent restoration is not possible immediately, temporary restoration shall be made within **4 hours** with the approval of BSNL. However, permanent restoration shall be done during night hours after getting maintenance shut down within 7 days of temporary restoration. The contractor has to submit a detailed report regarding the cause of fault, restoration details within 24 hrs to the designated officer of BSNL.
- 2.8 During the corrective action by the contractor, in case other service cables/utilities like existing OFC, local telephone copper cable, water pipes, electricity cables, any other pvt./ public Property etc. are damaged, the penalty/ compensation if any, shall be borne by the Contractor only. The restoration of all such damages caused will be rectified immediately by the contractor at his own cost. However this shall not hamper the BSNL OF cable restoration activity.
- 2.9 The route index diagram with offset, along with route and joint indicators etc., details shall be prepared and updated immediately after the rectification of OF cable fault by the contractor.
- 2.10 The FRT team will take photos at the fault site before restoration and after restoration of the cable fault and will hand over the print as well as digital version to the site incharge at the time of submission of the bill on monthly basis.

### **2.11 Damages/ Theft of OF cables: -**

Incident Report for all damages/ theft of OF cables shall be submitted by the Contractor to the concerned Police station through the designated officer of BSNL and photos taken immediately on the spot and submitted to BSNL. FIR shall be taken from concerned police station and submitted to THE DESIGNATED OFFICER OF BSNL. The contractor shall own a **camera with a provision for date and time stamp for the photos taken**. The necessary documentation required and compiled by the Contractor including investigation report is to be submitted to the DESIGNATED OFFICER OF BSNL.

- 2.12 If any service rendered by the vendor is found defective or abnormal delay, the same shall be go



- t completed from outside or BSNL source and the cost of any such work made by BSNL shall be deducted from the amount payable to the contractor.
- 2.13 The FRT team may be deployed at every 300km or part of thereof if specified in tender document for plain area and 250 Km or part of thereof if specified in tender document in hilly area which may vary as per the field requirement.
- 2.14 Use of CBuD app by FRTs:- FRT will use CBuD app (Call before you dig) to avoid damage to other utilities. Damage (if any) will be paid by successful bidder only.

### **3. Scheduled & Planned Maintenance:**

- 3.1 The scheduled planned Maintenance is a planned activity for improving the quality of fibers in a OF cable for bringing the overall section loss within the permissible limits. The standard OF section loss specified per KM is 0.3 dB at 1550nm. The standard splice loss is specified as < 0.1dB for all joints/ tapings. The fibers in a section shall have continuity from end to end. This planned activity is required to be done at regular intervals with prior planning by BSNL and the contractor jointly. Though it is desirable to maintain the parameters as above, value of parameters with respect to that available in the first quarter of the contract period has to be maintained or bettered.
- 3.2 The planned maintenance activity shall be carried out with prior approval of designated officer of BSNL.
- 3.3 The scheduled planned activity caters to the following activities:-
- a) Restoration of temporarily laid OFC, which might have been resorted to while carrying out fault restoration or temporary cable protection.
  - b) Regularization of temporary OFC Joints which might have been done to restore the traffic.
  - c) Check for rectification of fault to avoid repeat faults.
  - d) Protection for the exposed OFC due to various reasons.
  - e) Laying of OF cable on overhead for the sections, identified by BSNL.
  - f) Cable exposed due to soil erosion.
  - g) Re-splicing of fibers for improving the fiber performance.
  - h) Verification of route and joint indicators.
- 3.4 The fiber loss measurements shall be taken and submitted to the designated officer of BSNL by the contractor as specified under clause 4.2 (Submission of Reports).

## **4. Scope of work for Non-Motorable section of the route is as under**

### **4.1. PATROLLING:**

Regular patrolling and surveillance of OFC route to have proactive check to prevent OFC link disruptions. It will be done by dedicated and exclusive team who will not be assigned any other work. There should be at least one patrolman and every 10-15 KM in non-motorable route. Each patrolman has to be equipped with a mobile phone number. The Contractor shall have to give a detailed list of patrolmen along with their mobile numbers before deployment of the team.

Patrolling of non-motorable route shall be done on foot/pony so that the condition of the OFC is observed. It is expected that the entire non-motorable section under the contract will be covered by foot patrolling at least 4 times every month. Therefore, for effective patrolling of the entire section by motor vehicle as well as by foot/bike/pony as above, sufficient number of persons are to be engaged by the Contractor.

Liaison shall be maintained with other department like NHAI, Municipal corporations, Nagar Palikas, Urban Development Authorities, Sri Amarnath yatra Shrine Board etc regarding the permission being given or shall be given to other parties for any type of construction works along the optical fiber route.

### **4.2 LOGISTICS:**

The Contractor shall arrange for logistics to provide facilities such as AC/DC power source, lighting arrangement, dewatering facility, DG sets, battery sets etc and other suitable logistics that may be required to work efficiently in the cold and snowbound conditions.

In addition to the usual Resources, the Contractor has to deploy extra manpower as and when n

eeded during any work or other agencies work in the section (No extra payment will be paid for providing extra manpower for surveillance).

Suitable arrangement of mules/porters in the non-motorable section of the route.

Manpower and equipment's should be available with the maintenance teams round the clock as listed above. However, Contractor can add more manpower & equipment's for speedy maintenance & minimizing downtime without extra cost implications to BSNL

#### **4.3 FAULT RESTORATION:**

In case the site condition is not favorable for the immediate restoration of the fault, the temporary restoration of the service fibers shall be taken up immediately with the approval of Rep of BSNL. Permanent restoration work will not be considered in breakdown time unless there is again link break during restoration job. Permanent restoration of joint pits is to be carried out by Contractor within 48/96 hrs from time of fault / OFC cut. In case the site is not conducive for permanent restoration some arrangement of manpower has to be done by Contractor for safeguarding exposed OFC till permanent restoration. No extra payment shall be given to Contractor on account of deployment of additional manpower. In case of further cuts at exposed OFC location Contractor will be accountable for this additional downtime of OFC link.

In case of any breakdown in the OFC network, Contractor shall be responsible for obtaining approval at his own cost from statutory authorities like Municipal Corporation, Development Authorities, Shrine Board, Electricity Department PWD, NHAI and any other concerned authority as required for carrying out the repair.

- Contractor shall observe all national and local laws, ordinances, rules and regulations and requirements pertaining to the work and shall be responsible for extra costs arising from violations of the same.

#### **4.4 Night Work.**

The Contractor shall also work during night time and is required to complete the work in all respects within the stipulated time. Sufficient lighting arrangements and precautionary steps shall be provided to safeguard the workmen and public assets and to afford adequate facilities for properly placing and inspecting the material and the work when the night work is in progress.

#### **4.5 Restoration Time**

The restoration time including response time, travel time, fault localization, excavation, OFC laying & splicing should not exceed 04 hours wherever easy approach roads are available and it should not exceed 08 hours in non-motorable route where approach roads are difficult.

The maximum restoration time, in specific cases, shall be as decided by EIC, if conditions of force majeure are invoked.

### **5 SPECIAL TERMS AND CONDITIONS:**

#### **5.1 Taking Over the Section for Maintenance:**

The Contractor shall complete the OTDR measurement of all the block sections for all the fibers and submit a joint statement duly signed by the Contractor and BSNL officials indicating the faults to be attended for making good of all the non-working fibers. This process shall be completed within 10 days from the date of deployment.

The Officer-in-charge shall then advise the Contractor of the faults to be attended to make good the fibers. This Contractor shall make good all such fibers for use by rectifying the faults within 30 days from the date of advice by the officer of BSNL.

Subsequently, the maintenance of all the fibers shall be the sole responsibility of the Contractor

### **5.2. Multiple FRT needed:**

Extra FRTs and manpower will have to be deployed during the Yatra period (usually June to August) especially the non-motorable route so that every fault is attended promptly and minimum time is spent in travelling of FRTs.

### **5.3. Shut down on account of weather conditions:**

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.

## **6. THE CONTRACTOR'S OFFICE:**

6.1 The Contractor's office shall be equipped with the following facilities within 7 days from the issue of APO:

- a) Land line and Mobile,
- b) Internet, E-mail facility with PC

The contractor's office should be located in Station of Division Headquarter, however for operational convenience it is preferable that the contractor may have multiple offices falling under the jurisdiction of CN Tx-North.

### **6.2 SUBMISSION OF REPORTS:**

The contractor shall be responsible for submitting timely reports as per Clause 15.1 of [Section-V](#).

## **7. DETAILS OF MANPOWER TO BE DEPLOYED FOR:**

7.1 The Contractor shall deploy Manpower for the following works:

- a) Patrolling and Preventive Maintenance.
- b) Corrective Maintenance.
- c) Scheduled and planned Maintenance

The Manpower details are furnished in Para A of [Annexure-1](#).

7.2 BSNL shall be represented by the following Manpower for day to day interaction with the contractor.

JTO/SDE/DE: Person responsible for a portion of the route/routes. DY.GM is Final authority for the routes in his sub region, who will be the overall in charge for addressing any unresolved issues.

7.3 After award of the contract, within 7 days, Contractor has to furnish the information about their staff i.e. name, designation, contact mobile / landline phone numbers, office and residence address at various locations.

7.4 BSNL shall give the names, designations, mobile/landline, e-mail of BSNL staff responsible for each section of OF routes to the Contractor before commencement of the contract.

### **7.5 Supervisor:**

The Contractor shall depute a supervisor for the awarded work who shall coordinate and manage all the maintenance activities. He shall keep a daily liaison with THE DESIGNATED OFFICER OF BSNL. The Supervisor shall have experience in OFC maintenance works. BSNL will issue an entry pass to the supervisor for entering BSNL premises for taking tests on OF cable whenever it so required. However for taking tests at unmanned stations, the designated officer of BSNL will have to be contacted for making necessary arrangements.

8. The contractor shall not employ any working official of BSNL/ DOT. A certificate to this effect shall be furnished by the contractor.

## **9. MATERIALS:**

9.1 Issue of material by BSNL: All the essential critical materials will be issued by BSNL for stocking with

th the Contractor as an imprest stock per FRT (Fault Repair Team), which will be replenished as per consumption. The transportation from BSNL offices is to be arranged by the Contractor at his own cost. The maximum quantity of items that can be issued are as below:

S. No.	Item	Quantity
1	OF cable 6F/12F/24F/48F	2Km
2	PLB pipe along with accessories	1 Km
3	Patch cords (5m, SCtype)	6 Nos.
4	PigTails	10Nos.
5	Couplers for HDPE duct	10Nos.
6	Simple Plug	10Nos.
7	End Plug	10Nos.
8	Joint Closures (SJC/BJC)	10 Nos.
9	Splicing sleeves	200Nos.
10	RCC/DWC pipes=50/63/100mm dia(1m) length)	
	- halfcut	10Nos.
	- full	10Nos.

NB: The Quantity of above material is only indicative, however, the actual will be finalized as per need.

9.2 It shall be the responsibility of Contractor to maintain adequate (at least 50%) stock of above at his location and replenish items before depletion. For this purpose, Contractor shall send requirements by the 1st day of every month, in the prescribed format. BSNL will make the materials available to the contractor within 15 days of receiving the request from the Contractor.

9.3 For the materials listed under this clause, Contractor shall maintain a record register on replenishment and consumption, with date and countersigned by the designated officer of BSNL on each incidence of consumption (Fault restoration)/ replenishment.

## 10. MATERIALS EQUIPMENT SUPPLIED / PROVIDED BY THE CONTRACTOR:

10.1 The list of equipment and material and civil items which shall be owned by Contractor and available with Contractor during the contract agreement period is as per lists at i) and ii) in [Annexure-1](#).

10.2 The tools and equipment available with the contractor shall be inspected every 15 days by the designated officer of BSNL and materials shall not be moved by the contractor to any other sites/works without the permission of BSNL. The Contractor shall **ensure** all the items supplied to him by BSNL against any un- toward incidence.

11. Contractor shall at all times maintain a multi utility vehicle with dust proof chamber (preferably air-conditioned) for each Fault Repair Team. The vehicles used by the contractor shall be approved by the concerned Road Transport Authorities.

## 12. INSPECTION AND TESTING:

- For inspection of the works carried out by the contractor, he shall arrange the required accessories like testing instruments, ladders, lighting devices to the BSNL designated authority.
- All results of inspection and test results will have to be recorded in the inspection reports, Proforma of which shall be approved by BSNL.

## 13. EXAMINATION OF WORK DURING PREVENTIVE MAINTENANCE:

The Contractor shall give advance notice to designated officer of BSNL, whenever any work or materials are intended to be covered up in the earth, in bodies or walls or otherwise to be placed beyond the reach of measurement, in order that the work may be inspected or that correct dimension may be taken before being so covered, placed beyond reach of measurement. In default of such notice, the same shall, at the option of BSNL or its representative, be uncovered and measured at the Contractor's expenses. The work shall again be covered up at the Contractor's expenses.

## 14. Service Level Agreement (SLA) for Preventive, Corrective and Scheduled Mtce:

Contractor shall ensure the following SLAs:

- The permissible OFC cuts per 100 Km route per cable per month shall be within **Two** cable cut.
- The fiber loss shall not exceed **0.1 dB** per each splice.
- The time to repair (TTR) OFC cut shall be within **4** Hours (from the time of OFC cut occurrence).
- Patrolling of every route shall be carried out **daily as per field requirement**. Log books shall be placed at convenient places by BSNL in the block, which need be signed by the designated agency representative.

**SLA parameters:**

Sr. No	Type of Mtce	Parameter	Permissible range	Remarks
1	Preventive maintenance	One Patrolling service	100 km route daily to and fro	Daily patrolling of all Allotted sections and reporting to the designated officer.
2	Corrective Maintenance	No. of OFC Cuts /100KMs/cable/Month	Two Cuts	In case of multiple cables in a trench, each Cable cut is treated as one OFC cut.
3	Corrective Maintenance	Time to Repair (TTR)OFC cuts	≤4Hrs	Time to repair per OF cut
4	Corrective Maintenance	Splice loss per fiber	≤0.1Db	For each joint, digital photo of each fiber splice loss is to be submitted to Route party in charge after restoration of fault.

**15. PENALTY:**

SL No.	Parameter	Limits	Amount of penalty in Rs	Remarks
1	Faults in 01 months for route length of up to 100km or pro rata	02 fault per 100km per cable per month	Rs2500 for each additional fault exceeding the limit	1. In case of multiple cables in a trench each cable cut is treated as one OFC cut. 2. The contractor has to provide overhead protection to avoid any cut during any development /mtce works by govt. departments as preventive maintenance.

2	Splice loss per fiber	<0.1db	Rs2000/-per joint per Occasion	Apart from penalty, the agency is responsible for bringing splice loss<0.1db at his own cost within 7days
3	Time to Repair(TTR)	Up to 04 hrs	Nil	--
		Beyond 04 hrs upto 08hrs	Rs 500/-per hr	
		Beyond 08Hrs (i.e after 08hrs of occurrence of fault)	Additional Rs 300/-per hour subjected to max. of Rs 20000/-per fault /per cable to be treated as a separate fault	
4	Patrolling	100 km per day	Rs 2000/- per day of absence	--

**Note: Maximum amount of penalty to be deducted in monthly bills is restricted to 25% of the total amount of work done of the concerned month.**

## 16. Description of method for Scheduled and planned maintenance:

16.1. The Optical Fiber Cable is laid through HDPE /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 specification along National/State Highways/ other roads and also in city limits as mentioned in the notice inviting tender.
- ii) Laying of HDPE / PLB pipes/ Coils coupled by HDPE/ PLB sockets in excavated trenches , on bridges and culverts, drawing of 6mm Polypropylene/Para pro rope (P.P. rope) through the HDPE pipes/ coils as per Construction Specifications and sealing of HDPE/PLB pipe ends at every manhole by 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, wherever necessary.
- v) Back filling and dressing of the excavated trenches according to construction specifications.
- vi) Opening of Brick Chamber, Blowing of Optical Fiber Cable, sealing of HDPE/PLB Pipes by Rubber Bushes in Brick Chamber, providing HDPE/RCC/DWC Split Pipes in the Chamber & Back Filling it.
- vii) Digging of pit for jointing Chamber & making Bricks Joint Chamber having internal dimensions of 1.2 meter x1.2 meter x 1 meter (H) having wall thickness of 9" using ceme

nt mortar mix of 1:5(1: cement, 5: fine sand) to be constructed on the base of size 1.7 Mx1.7mx0.15m (thickness) with cover and back filling the pit with fine sand as per BSNL specifications including cost of material and transportation.

- viii) Digging of pits for Jointing Chamber & fixing of Pre-Cast RCC Chamber complete with base plate, filling of RCC Chamber with clean sand, placing of Pre cast RCC slabs on RCC Chamber as per BSNL specifications and back filling the pit including transportation of pre cast RCC chamber from Divisional Store to work site (the Pre cast RCC Chamber will be supplied by BSNL).
- ix) Duct through test of the PLB laid and pressure test.
- x) Documentation

## 16.2 ALLIED ACTIVITIES:

**16.2.1 Transportation of Materials:** The materials required for executing the work entrusted to the contractors against a purchase order shall be made available at Divisional/CGM CNTx-North Store Depot. In some cases the materials may be available at sub divisional store godown. The contractor shall be responsible for transporting the materials, to be supplied by the BSNL or otherwise to execute the work under the contract, to site at his / their own cost. The costs of transportation are subsumed in the standard Schedule Rates and therefore no separate charges are payable on this account.

**16.2.2 Disposal of Empty Cable Drums:** The contractor shall be responsible to dispose of the empty cable drums after laying of the cables. The cost of various sizes of empty cable drums recoverable from the contractor has been fixed taking into account the prevailing market rates as mentioned in this document.

16.2.2.1 It shall be obligatory on part of the contractor to dispose of the empty cable drums at his/their level and the amount fixed for various empty cable drums shall be recovered from the bill for the work for which the drum (s) was/were issued or from any other amount due to the contractor or the Security Deposit.

16.2.2.2 The contractor shall not be allowed to dump the empty cable drums in Govt./Public place which may cause inconvenience to the BSNL / public. If the contractor does not dispose of the empty cable drums within 3 days of becoming it empty, the BSNL shall be at liberty to dispose off the drums in any manner deemed fit and also recover the amount fixed in this contract from the bill/security deposit/ any other amount due to the contractor.

**16.2.3 Supply of Materials:** There are some materials required to be supplied by the contractor for execution of work under this contract like Bricks, Cement, Wire Mesh and Steel for protection, etc., besides using other consumables which do/don't become the part of the asset. The contractor shall ensure that the materials supplied are of best quality and workmanship and shall be strictly in accordance with the specifications.

**16.2.4** Pre-fabricated joint chambers, joint indicators, route indicators will be supplied by BSNL (if required to be installed as per decision of BSNL site in-charge) and planted by successful bidder).

**16.3 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 indicated value.

## Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding

process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attache categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Any ATC clause in contravention with GeM GTC Clause 4 (xiii)(h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

**All GeM Sellers / Service Providers are mandated to ensure compliance with all the applicable laws / acts / rules including but not limited to all Labour Laws such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972 etc. Any non-compliance will be treated as breach of contract and Buyer may take suitable actions as per GeM Contract.**

This Bid is governed by the [General Terms and Conditions/सामान्य नियम और शर्तें](#), conditions stipulated in Bid and [Service Level Agreement](#) specific to this Service as provided in the Marketplace. However in case if any condition specified in General Terms and Conditions/सामान्य नियम और शर्तें is contradicted by the conditions stipulated in Service Level Agreement, then it will over ride the conditions in the General Terms and Conditions.

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which share land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws. जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध : संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड दे वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जा व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

**---Thank You/धन्यवाद---**



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