



BHARAT SANCHAR NIGAM LIMITED
O/o CHIEF GENERAL MANAGER BSNL
CHHATTISGARH TELECOM CIRCLE
Khamardih RAIPUR-492007

BID DOCUMENT

Name of Tender:- E-Tender for outsourcing of Maintenance and Operation of Mobile BTS Sites, Maintenance of Optical Fiber cable on fault/need basis & other associated works as defined in the Scope of work for Bastar BA in CG Circle.

Name of work: - Maintenance and Operation of Mobile BTS Sites AND Maintenance of Optical Fiber cable on fault/need basis & other associated works.

NIT No CGCO-MM/11/36/2024-MM BSNL CG CO Date 14.02.2025

1	Date of Start for tender downloading:	At 18:00 Hrs on 14.02.2025
2	Last Date and time for downloading:	UP TO 12:30 Hrs of 06.03.2025
3	Last Date & Time for Submission (Online)	UP TO 12:30 Hrs of 06.03.2025
4	Last Date & Time of Submission (Off line)	Should be submitted any date on or before bid submission end date OR within 5 days after online bid submission end date
5	Date of Opening :	At 12:30 Hrs on 07.03.2025

BID VALIDITY OF PERIOD: 180 DAYS from Bid Opening Date

Read this tender document thoroughly.

कृपया टेंडर डॉक्यूमेंट को ध्यान से पढे

Only tender submitted online will be accepted.

Website: <https://etenders.gov.in>

Note: Kindly see all clarification / Corrigendum on website & Read carefully before submission of Bid & ensure that all documents submitted are fully authenticated by the authorized signatory.

CHIEF GENERAL MANAGER CG CIRCLE RAIPUR
DOOR SANCHAR BHAVAN, VIDHANSABHA ROAD KHAMARDIH RAIPUR CHHATTISGARH-492007

Email: agmmmcoryp@gmail.com

Website: <http://chhattisgarh.bsnl.co.in>

SECTION-1
BHARAT SANCHAR NIGAM LIMITED
(A Govt. of India Enterprises)
OFFICE OF THE CHIEF GENERAL MANAGER CG CIRCLE RAIPUR

NIT No CGCO-MM/11/36/2024-MM BSNL CG CO Date 14.02.2025

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BHARAT SANCHAR NIGAM LIMITED
(A Govt. of India Enterprises)
OFFICE OF THE CHIEF GENERAL MANAGER CG CIRCLE RAIPUR

SECTION-1
DETAILED NOTICE INVITING TENDER (DNIT)

NIT No. CGCO-MM/11/36/2024-MM BSNL CG CO Date 14.02.2025

1. E-TENDER is invited for and on behalf of BSNL by the CHIEF GENERAL MANAGER TELECOM, CG CIRCLE, Raipur from the eligible and experienced contractors for Operation and Maintenance of Mobile BTS Sites, Maintenance of Optical Fiber cable on fault/need basis & Other associated works, BASTAR BA for a period of one year and extendable by additional one year, on the same terms and conditions.

Section No	Name of Section	Nos of Mobile BTS sites	Approximate Annuul Estimated Cost (BTS O&M work In Rs.) (A)	OFC Route (Km)	Approximate Annuul Estimated cost (OFC work in Rs.) ** (B)	Total Tender COST (A)+(B)	EMD (In Rs.)	Tender Fee (In Rs.)
A	Jagdalpur	96	2558400	352	2636140	5194540	129864	1180/-
B	Dantewada, Bijapur & Sukma	52	1528800	402	2287873	3816673	95417	590/-
C	Kondagaon & Narayanpur	64	1773600	313	2341855	4115455	102886	590/-
D	Bhanupratappur & Kanker	85	2622000	435	1608154	4230154	105754	590/-

** The cost of OFC work is indicative only and does not confer any right on vendor or commitment of BSNL towards contractor for execution. The OFC maintenance work shall be done exclusively on fault/need basis as per procedure mentioned in detail in scope of work of this bid document.

- Note 1: The quantity /number/ Sites stated above are estimated and BSNL reserves the right to vary the quantity to the extent of -25 % to +25 % of specified quantities during the entire contract i.e. APO/LOI without any change in unit price or other terms & conditions.
- Note 2: The scope of work involved in the Maintenance of Optical Fiber cable on need basis is defined in Section-3 Part-A and BTS SLA work in Section 3 Part-B. The successful bidder has to deploy adequate numbers of Fault Repair Team (FRT)/ staff for length of OFC route and numbers of BTS.
- Note 3: Participation in this tender is not acceptable, whose field performance was found not satisfactory/who are debarred as per debarment clause.
- Note 4: The Contractor is advised to deploy FRTs for Preventive Maintenance of OFC routes also to control BTS faults by taking all measures to minimize occurrence of faults. The FRTs will report to AGM/ DE in charge of BSNL office. In case of any OFC Fault, FRT has to move immediately to restore the fault and restore the OF Cable to maintain Minimum Time to Restore (MTTR), as per QoS Parameters. The penalty is specified for corrective maintenance only.
- Note 5: The contractor can be asked to work in any other area of Chhattisgarh Circle at the rate approved of this tender, if instructed to do so.
- Note 6: The successful bidders shall have to engage specialized manpower for OFC pulling/Joining/Splicing/Termination of Fiber on FDMS/FDF and BTS SLA work as per Scope of

works , as approved as and when required by Engineer-in charge.

- Note 7: The evaluation of the tender will be done section/cluster wise on the total price quoted in the Price Schedule at Section-9 Part-B of the tender document.
- Note 8: Period of Contract shall be one year from the date of agreement and extendable by additional one year. The approved bidder/s will have to submit the Performance Security Deposit /PBG valid for a **period of 18 months** from the date of signing of the agreement. In case the tender is extended for additional period, the contractor will have to deposit additional PSD, valid for a period of another 6(six) months after completion of extended period.
- Note 9: **Deleted**
- Note 10: As per Ltr. F.No. CA/MMT/3-1/2018 dtd. 17.07.2018 as per, BSNL C.O.,New Delhi., the requirement of compulsory advertisement in Newspapers - as per GFR, 2005 - has been dispensed with. Advertisements in case of tenders above certain threshold value should be given on Central Public Procurement Portal (CPPP). Accordingly, this NIT is being published on e-procure website portal www.etenders.gov.in of NIC/CPPP & CG Intranet portal with link to www.chhattisgarh.bsnl.co.in.
- **Note 15: In case of bidding for multiple clusters/section one EMD with entire respective bid security amount shall be acceptable.**
- **Note 16: Deleted.**
- **Note 17: Section means area with group of BTSs having 2G,3G, Mobile/ Transmission Equipment, standalone or in combination of 2G+3G, 2G+3G+ 4G etc. along with tower ,other infra for SLA based work and maintenance of OFC Routes on fault/need base work .**

2. Purchase of Document:

Tender document can be obtained by downloading it from the website www.chhattisgarh.bsnl.co.in Tender link. The official copy of tender document for participating in E-tender shall be available for downloading online on CPPP Portal www.etenders.gov.in from 18:00 Hrs. of 14.02.2025 onward up to 12:30 Hrs of 06.03.2025. The bidders downloading the document are required to submit the Tender fee amount (along with applicable GST) through Crossed DD/Banker's Cheque issued by any Nationalized /Scheduled Bank in favor of "AO(A&B), BSNL, % CGMT CG CIRCLE RAIPUR payable at CG Circle Raipur Chhattisgarh-492007", along with their tender bid failing which the tender bid shall be left archived unopened/rejected.

The Crossed Demand Draft/Bankers *Cheque* or Original Cash Receipt should be submitted offline in the envelope as mentioned in clause 4.2 of Section-4 Part-C.

Successful Bidders are required to sign & submit the Agreement of Contract (AOC) (format as per Section 7(H)) along with the unconditional acceptance letter after receipt of 'Letter Of Intent' (LOI).

The Tender fee is non-refundable & non-transferable.

The MSE units shall be exempted from submission of Bid Security deposit & Tender Fee on production of requisite proof in respect of valid certification from MSME for the tendered item (please note that only 'Micro' and 'Small' category businesses are eligible for this concession). There is no exemption to MSE units/ bidders from submission of PBG and Material Security, which they will be required to submit, as applicable, if the tender is awarded to MSE units/bidders.

Micro & Small Enterprise (MSE) bidders are exempted from payment of Tender Fee/Bid Security provided they submit current and valid Udyam Registration Certificate (URC) issued from the Ministry of MSME. Udyam Registration Certificate (URC), submitted by MSE bidder in their online bid for claiming exemption from Tender Fee & Bid Security, must be current & valid on the date of opening of Technical bid part. Micro and Small Enterprises (MSEs) registered under Udyam Registration are eligible to avail the benefits under the policy. In case of upgradation of Micro / Small enterprise, the exemptions or relaxation shall be as per directives issued by MSME for non-tax benefits in such cases.

3. Availability of Tender Document:

In case of Tender invited through e-tendering process, physical copy of the tender document would not be available for sale.

Note11: Deleted.

4. **ELIGIBILITY CRITERIA:** The prospective bidder should satisfy following conditions:

4.1 Registration of Firm: The Bidder shall be a company registered in India under the companies Act. or a partnership firm/proprietor ship firm registered in India.

Scanned copy of the documents, as applicable, in support of registration of the Company/Firm/Proprietorship:

- The registration of the firm, authenticated copy of partnership deed in cases of partnership firm.
- Attested copy of Memorandum of association and Articles of Association duly registered with Registrar of Company.
- Duly executed Affidavit, stating that tenderer is the sole proprietor of the firm or any document issued by the taxation authorities establishing that tenderer is the sole proprietor of the firm, in case of proprietorship firm.

4.2 Financial Turnover: -Average Annual financial turnover (to be submitted certified by CA) during of last 3 financial years i.e. FY: 2021-22, 2022-23 & 2023-24 should be at least **40%** of the estimated tender cost. Audited Annual Financial Reports in support of this is to be enclosed along with the bid to substantiate eligibility in this regard.

4.3 Solvency Certificate:- Certified copy of Solvency Certificate from the nationalized/scheduled bank of the bidder for **30%** of the estimated tender cost has to be submitted. The Solvency Certificate should not be older than **6(SIX) MONTHS** from the date of issue of this Tender (DNIT).

4.4 Experience in terms of Technical Eligibility Criteria:

Bidders should have experience of having successfully completed **O&M of BTS Sites or other installed infrastructure with BTS/ exchange (with activities as described in 'Scope of Works' at Section-3 Part A or Part B) or Hub maintenance works of exchange/Telecom Equipment related works** or fault/need based OFC Maintenance/ OFC laying and associated works in single/multiple contracts in DOT/BSNL/MTNL/Central Govt. & their CPSUs/State Govt. and their PSUs /Licensed Telecom service provider/Licensed Infrastructure provider /BTS supply vender/Telecom Original Equipment Manufacture, during the **last 7 (Seven) financial years** ending last day of month previous to the one in which application are invited, and should be one of the following:-

Completed works of similar services in any **THREE** years costing not less than the amount equal to **40%** of the estimated cost in each year during last seven years.

OR

Completed works of similar services in any **TWO** years costing not less than the amount equal to **50%** of the estimated cost in each year during last seven years.

OR

Completed work of similar services in any **ONE** year costing not less than the amount equal to **80%** of the estimated cost or in each year during last seven years.

The experience certificate should be issued by the officer not below the rank of DGM Level officer in case of DOT/BSNL/MTNL/Central Govt. & their CPSUs/State Govt. and their PSUs and in case of Licensed Telecom service provider/Licensed Infrastructure provider /BTS supply vender/Telecom Original Equipment Manufatcure, it should not below the rank of work order/agreement

issuing/signing authority.

4.5 Bidders should have office in the state of Chhattisgarh. Valid proof of office address is to be submitted.

4.6 The Bidder should also possess the following documents and self-attested copies of these documents should be submitted -

- (i) Valid EPF/ESI Registration Certificate.
- (ii) Income tax return filed copy for the last 3 financial years i.e. AY :2022-23, 2023-24 & 2024-25.
- (iii) Solvency Certificate as per 4.3 above.
- (iv) Valid PAN Number.
- (v) Valid Goods and Services Tax (GST) Registration Certificate No(s).
- (vi) A self-declaration on the company's letterhead along with the evidence that the bidder is not blacklisted by GST authorities. In case the bidder gets black-listed during the tenure of BSNL contract, then any loss of Input Tax credit thereof shall not be borne by BSNL due to default of the bidder.
- (vii) In case of multiple GST numbers, all the numbers shall be provided at **Section-8: "Bidders Profile & Questionnaire"**.
- (viii) **Near Relationship Certificate**, in case of proprietorship firm, the certificate will be given by the proprietor, for partnership firm by all partners and in case of limited company by all the directors of company.
- (ix) The Bidder must not be black-listed for Telecom business by any Central/State Governments/ PSUs in India at the time of submission of bid. An undertaking must be submitted in this regard.

4.7 The Bidder should NOT be a licensed Telecom Service Provider to provide Basic Services/Cellular Telephony Services/ Internet Services/ UASL/ NLD/ILD Services anywhere in India. Self under taking to this effect must be submitted by the bidder.

4.8 A self-declaration on the company's letterhead giving List of employed skilled technical personnel and/or Undertaking regarding employment of skilled technical personnel has to be submitted by the Bidder.

4.9 The bidders shall submit necessary documentary proof showing that they meet the eligibility criteria in their Tender bid. All documents submitted should be self-attested by the bidder.

4.10 **Original "Power of Attorney"** in case person other than the Bidder signed the documents. The power of attorney should be for specific work (mentioning the NIT no.) in non-judicial stamp paper and not general power of attorney **OR a self declaration of not applicability of the firm should be submitted** . Tender is liable to be rejected if power of attorney is not submitted as per clause 14.3 of section 4 Part-A of this tender.

4.11 Copy of valid Labor License as a proof of Registration with Central Labor Commission (under Contract Labor Act 1970) for submitted work experience and an undertaking regarding new labor license will be submitted by bidder after finalization of tender.

Note-12: The successful bidders shall have to engage specialized manpower for OFC pulling/jointing/splicing/Termination of Fiber on FDMS/FDF as approved by Engineer-in charge.

Note-13:

- (a) The conformance to this requirement shall be explicit from the submitted certificates in the

format provided at Section 7 (G) as required in Clause 4.4 above.

- (b) In case any certificate submitted are covering for a period of more than two years, pro-rata amount will be assumed to arrive at the value attributable to two year period in order to evaluate eligibility in this regard.
- (c) Once the bidder has submitted his bid through E-Tender, it will be presumed that bidder has understood & accepted all the terms and condition of the tender and no correspondence at later stage will be entertained in this matter.

4.12 Bid Security/EMD:

The bidder shall furnish the bid EMD as per NIT in the form of BG/ Demand Draft/ Banker's cheque issued by any Nationalized /Scheduled Bank drawn in favor of "The Accounts officer (A&B)O/o CGMT CG CIRCLE BSNL RAIPUR".

The MSE bidders registered with the designated MSME bodies like National Small Scale Industries Corporation etc are exempted from payment of bid security. However, they shall furnish a proof regarding registration with bodies under the Ministry of Micro, Small & Medium Enterprises **for tendered items**, valid on the date of opening of the tender.

Bid Security needs to be submitted by bidder as per Format **in Section 7**.

5 Availability of Tender Document & of submission of On line Tender: The tender document shall be available for downloading on portal : www.etenders.gov.in from 14.02.2025 at 18:00 hrs.

6 OFFLINE SUBMISSION :

The bidder shall submit the following documents offline to O/o AGM(MM), First Floor, Room No:109, O/o CGMT CG CIRCLE BSNL Khamardih, Vidhan Sabha Road Raipur-492007 on **any date on or before bid submission end date or within 5 days after online bid submission end date**, in a Sealed Envelope. The envelope shall bear (tender name), the tender number and the words 'DO NOT OPEN BEFORE' (due date & time):

- (i) EMD–Bid security (original copy)
- (ii) DD/ Banker's Cheque or Cash Receipt from The AO (A&B) O/o CMT, CG CIRCLE BSNL RAIPUR against payment of tender fee or proof of payment if paid through NEFT/RTGS.
- (iii) Power of Attorney in accordance with clause-14.3(a) of Section-4 Part-A and authorization for executing the power of Attorney as per clause 14.3 (b) & (c) of Section-4 Part-A.
- (iv) Power of Attorney for DSC in accordance with clause 14.3 (e) of Section-4 Part-A (if applicable) as per clause 14.3(e) of Section-4 Part-A or self declaration of not applicability of the firm should be submitted.
- (v) MSE registration certificate if the bidder is claiming concession for Bid cost and Bid security.

Note-14: In case the date of submission (opening) of bid is declared to be a holiday, the date of submission (opening) of bid will get shifted automatically to next working day at the same scheduled time. Any change in bid opening date due to any other unavoidable reason will be intimated to all the bidders separately on etenders.gov.in website.

7 Online opening of Tender Bids: At 12:30 Hrs on 07.03.2025

8 Place of opening of Tender bids:

In case of Tenders invited through e-tendering process, the Tenders shall be opened through

'Public Online Tender Opening Event (POTOE)'. BSNL's Tender Opening Officers, as well as, authorized representatives of bidders can attend the Public Online Tender Opening Event (TOE) from the comfort of their offices. Kindly refer clause 6 of Section-4 Part C of Tender document for further instructions.

9 Tender bids received after due time & date will not be accepted by the online system.

10 Incomplete, ambiguous and Conditional Tender bids are liable to be rejected.

- 11** The CGMT, BSNL CG Circle reserves the right to accept or reject any or all the bids without assigning any reasons whatsoever and he is not bound to accept the lowest Tender rate.
- 12** Tender document for e-bidding process can be downloaded from the e- tender portal www.etenders.gov.in following the Link-“e-Tender” from 14.02.2025, 18:00 hrs to 06.03.2025, 12:30 hrs .onwards. The bidder shall furnish a declaration in his Tender bid that no addition / deletion /corrections have been made in the downloaded Tender document being submitted and it is identical to the Tender document appearing on the e-tender portal www.etenders.gov.in. In case of any correction/ addition/ alteration/ omission in the Tender document, the Tender bid shall be treated as non-responsive and shall be rejected summarily.

13 Deleted

Note15: All documents submitted in the bid offer should be preferably in English. In case the certificate viz. experience, registration etc. is issued in any other language other than English, the bidder shall attach an English translation of the same duly attested by the bidder & the translator, to be true copy in addition to the relevant certificate.

Note16: All computer generated documents should be digitally signed/Ink seal signed & self attested by the bidder/vendor organization.Tender document(s) should be signed by tenderer or his authorized representative along with seal on each page of the bid document.Bid will liable to be rejected if online documents are not submitted as mentioned above.

Note 17 : The bidder shall submit the offline documents in Original on any date on or before bid submission end date or within 5 days after bid submission end date as specified above. Online bid of the bidder will be opened only after offline bid document as per clause-6 received from bidder. If already opened, the bid will liable to be rejected.

SECTION- 2 TENDER INFORMATION

1. Type of Tender:-Single Stage bidding using Two Electronic Envelopes system.

Note-1:-The bidder shall submit Techno-commercial & Financial bid simultaneously.

Note-2:-The bids will be evaluated techno-commercially first and thereafter financial bids of techno-commercially compliant bidders only shall be opened.

2. Bid Validity Period / validity of Bid offer:-180 days from the date of Tender opening and can be extended.

3. Bid Document:-The Tender is invited under two envelope system. The 1st electronic envelope will be named as “**Techno-Commercial Envelope**” & will contain documents of bidder’s satisfying the eligibility / Technical & Commercial conditions; and 2nd electronic envelope will be named as “**Financial Envelope**” containing financial quote.

These envelopes shall contain one set of the following documents:-

(A) Techno-Commercial Envelope

Techno-Commercial Envelope shall contain one set of following documents:-

1	EMD–As per Section-1, Part A
2	Cost of the Tender documents i.e. Tender fee as per Section-1, Part A.
3	Documentary proof in respect of valid certificate from MSME for tendered item/work (if Applicable)
4	Scanned copy of the document, as applicable, in support of registration of the company/Firm/Proprietorship as mentioned in Eligibility criteria of NIT in clause 4.1.
5	Average Annual financial turnover As per Section 1, Part A Clause 4.3
6	A Solvency Certificate As per Section 1, Part A Clause 4.4
7	Income tax return filed copy for the last 3 financial years i.e. AY:2022-23, 2023-24 & 2024-25.
8	Self attested copy of valid PAN Card.
9	Valid proof of office Address in Chhattisgarh Telecom Circle as per Section-1, Part A.
10	Clause by clause compliance OR Statement of No-deviation as per format given at Proforma-7(F) of section 7
11	Bidder's Profile & Questionnaire duly filled & signed as per Section-8.
12	“Undertaking & Declaration ”duly filled & signed in Section 6(A).
13	Tender/Bid Form as per Section-9 Part A.
14	List of employed skilled technical personnel and/or Undertaking from Bidder regarding employment of skilled technical personnel.
15	Documentary proof of valid GST registration.
16	Self-declaration on company's letter head along with the evidence, that Bidder is not black-listed by GST authorities.
17	List of all GST registration numbers to BSNL, where supplier holds multiple valid GST numbers, if applicable. (To be mentioned/attached separately in Bidder's Profile & Questionnaire).
18	Undertaking with respect to clause 4.7 Section-1 Part-A (that the Bidder is NOT a licensed Telecom Service Provider to provide Basic Services / Cellular Telephony Services/ Internet Services /UASL / NLD/ ILD Services anywhere in India).

19	EPF & ESI Registration Certificate along with latest EPF & ESI payment certificate.
20	Power of Attorney in accordance with clause 14.3(a) of Section-4 Part-A and authorization for executing the power of Attorney as per clause 14.3(b) & (c) of Section-4 Part-A.
21	Power of Attorney (POA) in accordance with clause-14.3(e) of Section-4 Part-A in favor of DSC (if applicable). The "Power of Attorney" shall not be older than the date of issue of NIT. (Offline as Well as Online)
22	Experience certificate as per Clause No. 4.4 Section-1 Part-A in format at Proforma -7(G) of Section 7.
23	Near relationship certificate as per clause 34 of Section-4 Part-A.
24	The Bidder must not be black-listed/banned for Telecom business by any Central/State Governments / PSUs/ BSNL in India at the time of submission of bid. An undertaking on company's letterhead must be submitted in this regard.
25	Valid labour license under the contract Labour (R&A) Act 1970 and the contract labour (Regulation and Abolition) central Rules 1971.

Note-1:-

- (i) Scanned copies of all documents mentioned above should be signed with Digital Signature Certificate (DSC) by the authorized signatory of the bid offer (Power of Attorney holder). In case the representative of bidder company, who uploads the documents on e-tender portal using his Digital Signature Certificate (DSC), is different from the authorized signatory for the bid (Power of Attorney holder) then the representative who uploads the documents 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 authorized signatory for the bid.
- (ii) Submission of documents as listed under Clause-3 above is mandatory and non-compliance may result in rejection of the Bid during evaluation.
- (iii) If some document is not applicable for the bidder then he has to upload scanned copy of self declaration mentioning "The document < Name> called vide clause _is not applicable to us".
- (iv) In case of company/partnership firms, the following shall be submitted -
 - I. Certificate of incorporation/partnership deed.
 - II. Memorandum of Association or Article of association

Note-2:-

The following documents are required to be submitted Online, as well as, Offline (physically) to "AGM(MM), Room no. A-109, O/o CGMT, BSNL, CG Telecom Circle, Khamardih, Shankarnagar, Raipur-492 007 (CG) on **any date on or before bid submission end date or within 5 days after online bid submission end date.**

- (vi) EMD-Bid security (original copy)
- (vii) DD/ Banker's Cheque or Cash Receipt from The AO(A&B) O/o CMT, CG CIRCLE BSNL RAIPUR as per Clause 2.1 of Section-1 Part-A of bid document for tender fee
- (viii) Power of Attorney in accordance with clause 14.3(a) of Section-4 Part-A and authorization for executing the power of Attorney as per clause 14.3 (b) & (c) of Section-4 Part-A or self declaration of not applicability of the firm should be submitted.
- (ix) Power of Attorney for DSC in accordance with clause 14.3 (e) of Section-4 Part-A (if applicable).
- (x) MSE registration certificate if the bidder is claiming concession for Bid cost and Bid security.

Note 3:- Deleted.

The offline Envelope shall bear the Tender number, name of work and the phrase:
"Do Not Open Before/...../..... & Time....Hrs.(due date & time of opening of Tender)".

4. **Payment terms:** As mentioned in **clause-14 of section-5 part-A** of the Tender document.

SECTION- 3 PART A

SCOPE OF WORK

GMBA / OA Heads is a unit of Chhattisgarh Telecom BSNL (A Govt. of India Enterprise), responsible for the maintenance of BTS / Optical Fiber Cable network and systems in clusters of respective BA/ OA areas . The BTS are commissioned in various geographical areas within BA/ OA and OF cable are installed generally along the side of the Road (National Highways, State Highways, Municipal Corporation, Rural roads) to connect Telecom Installations and various network elements in BSNL.

1. SCOPE OF WORK (BTS sites , Infra)

1.1. Standadised activities for BTS Sites & Infrastructuire Meintenance Outsourcing

General: Outsourcing of Maintenance and Operation of Mobile BTSs, other installed infrastructure with BTS like collocated exchange, transmission equipment, Power Plant, battery sets, DG Set and RF Modification/Rigger activities of Mobile sites.

List of Activities Covered under BTS&Infrastructure Maintenance for Outsourcing as per following details :-

- A. **BTS & Infrastructure Maintenance for BSNL Sites (Excluding IP sites)**
- B. **BTS & Infrastructure Maintenance for Non-BSNL sites (Excluding IP sites)**
- C. **BTS Maintenance for Infrastructure Provider (IP) sites**
- D. **Rigger activities for BSNL-Non BSNL and IP sites**
- E. **Scope related to Diesel filling in DG Sets and DG operation (Excluding IP sites)**

BSNL sites: BTS co-located with CFA Exchange site

Non BSNL sites: Hired BTS site without exchange site

IP sites: Hired through IP- Infra Providers

BTS & Infrastructure Maintenance for BSNL sites with collocated Telephone (ExcludingIPsites) (2G and/or3G and/or 4G) :-

- i. These are the sites housing Mobile site collocated with Telephone Exchange (2G and/or 3G and/or 4G or a combination of them AND Telephone Exchange with necessary equipment).
- ii. Maintenance of Exchanges*1
- iii. Cleaning, security (to the extent of alerting any abnormal observation at the site during visits, intimating/ lodging of complaints/ FIR with police authorities promptly w.r.t. any incident, ensuring functioning of lock & key and upkeeping of the site including all equipment, tower surroundings, shelter/OD cabinet, Media equipment, DG etc. This includes bush cutting in the BTS sites/ Exchanges in open areas. All tools & Cleaning material to be provided by the bidder.
- iv. Exchange/ BTS site cleaning including BTS & Exchange equipment`s, Roof Area, Compound Area. Cleaning to be carried out by blower etc. (Equipments for cleaning to be provided by the Vendor)
- v. All left over BTS related alarms, if any need to be made functional and to be extended upto OMCR within one month of operation. Equipment required for Alarm Extension to be provided by BSNL.
- vi. Prompt action on receipt of instructions (by call or by SMS) from concerned officer regarding manual assistance in rectification of alarms/ faults in BTS site/ Exchange, DSLAM, other equipment.
- vii. The Bidder should ensure that fault is attended even in case of water-logging due to rain etc., the maintenance staff should be provided necessary accessories/gum-boots etc by vendor at his own cost.
- viii. Replacement of the faulty modules with repaired modules as per instructions of Site Incharge
- ix. In case of BTS/Exchange outages due to card faults of BTSs / NODE-Bs/ e-Node Bs/ Exchange fault, replace the

fault items with the spare module/ cards as per instructions of BSNL Site In charge.

- x. Faulty card/ units of BTS sites and other equipments need to be deposited at designated centre as per requirement and collection of repaired unit. It will be the responsibility of bidder to transport equipment with utmost care and during transportation no cards/units get damaged.
- xi. In case of BTS/ exchange outages due to card faults of rectifier modules fault of power plant etc, replace the faulty items with the spare module /cards available from normal spare availability location or from nearby sites as directed. The card/module extraction/insertion and transport shall be as per the recommended practice of the OEM/guidance of BSNL.
- xii. Any Mini Link/ OFC failure to be intimated to site in charge for prompt restoration of OFC fault, details of visual alarm noticed to be communicated to the maintenance In-charge.
- xiii. To check Earth Connectivity is available at BTS/ Node B/ e-Node Bs. All measuring instruments to be provided by the vendor.
- xiv. Vendor personnel should be provided with photo ID cards by Outsourcing Vendor.
- xv. The field staff being deployed should be provided with 2 SIMs one of BSNL & other from private TSPs for communication when BTS site is down. The list of same shall be provided at the time of Agreement. In case of any change in staff during the contract, the same shall be updated. BSNL employees too will share their 2 Mobile nos. of BSNL and other TSP
- xvi. Maintaining EMF related boards and help in providing data for Biennial/Triennial submission of EMF Radiation for Mobile sites. (Bidder shall assist in Biennial/Triennial related activities like getting photograph &uploading to SSA CMTS Team etc.).
- xvii. Assistance in handling of minor store items.
- xviii. Ensure working of Power plant alarms with OMC-R.
- xix. First line maintenance of power plants, battery and any problem reported (Any problem to be reported within 3hrs.)
- xx. Bidder to perform Preventive Maintenance activities as per the PM Annexure will maintain the register for this activity and will submit the copy of the same duly verified by concerned unit-in-charge along with monthly bill.
- xxi. Periodically check-up power plant modules working, load sharing and ensuring sufficient Modules are available for Equipment in consultation with Site Incharge and Charging of Battery.
- xxii. Tightening of all nuts/ screws in interconnecting point of power cable from EB panel board to each equipment
- xxiii. To ensure the power plant/ control card is functioning properly so that battery do not go to deep discharge.
- xxiv. In case of any Power Plant outages due to fault in control card intimation to be given to Site In charge for attending the same on priority.
- xxv. The bidder has to supply and maintain a log book in every site/ Exchange. It is the responsibility of the bidder to update the logbook promptly. All the log books get signed by the concerned officer incharge in the first week of next month and submit with the invoice.
- xxvi. Conducting Battery Backup test with Existing Load at least quarterly & record the same in Log Book.
- xxvii. Bidder has to provide related testing equipments and necessary conveyance to discharge the functions listed in the tender.
- xxviii. Air filter cleaning in BTS/ Node B/ e-Node B, every month and entry in log book of site.
- xxix. Routine check of free cooling systems available at site and DG set and other Equipments i.e. BTS/ Media etc. and record the same in log book as per the periodicity defined for the visit (monthly). Reporting of any alarms/faults/untoward incident to the concerned officer
- xxx. Monitoring of Power Plant voltage and smooth change over in the absence of electricity.
- xxxi. To provide assistance under various exchange site activities includes minor civil and electrical works such as repair/replacement of MCB, & Switch, Aviation bulb, EB service cable, armoured AC cable replacement up to

DG, repair/replacement of parts of LT panel/ lighting fixtures / smoke & fire alarm system / site earthing/ surge protection/ A/C unit etc.

- xxxii. Preventive checks and maintenance of Earthing & Lightning Protection systems including periodic checking/correction of these systems to ensure that all equipments are protected against surge/lightning related damages. This includes augmentation of the existing earthing/ lightning system where ever required, replacement of any rusted components, tightening of joints, replacement of lightning damaged components in infra equipments/electrical circuitry including ELCBs/surge protection devices/fuses/cables etc.
- xxxiii. Maintenance of Tower Aviation light. Bidder to ensure working of Aviation light.
- xxxiv. Due to heavy dust, temperature of BTS increases and efficiency degrades. Hence, cleaning of all types of BTS/ Exchange equipment & other infrastructure need to be carried out. This should be done using proper tools (to be arranged by the bidder) including vacuum cleaner and under supervision.
- xxxv. Assistance to transmission media team for extension of loop test, observation of alarm indicators, giving reset etc for troubleshooting shall be done. Testing of E1/FE/GE and other media activities from BTS site to BSC /RNC related equipment (looping/ measuring of Optical power) as and when required
- xxxvi. Periodicity of visit to be at least once in 3 days for BSNL sites
- xxxvii. Site visit/ inspection/ cleaning activity proof to be provided at least once in a month to Site in charge
- xxxviii. Report EB failure of sites to concerned EB unit and intimate the docket no: if any, to concerned BSNL official. Constant coordination with Electricity Board/Corporation for restoration of power in consultation with BSNL Site Incharge and after restoration of EB power, ensure proper working of PP/DG.
- xxxix. BSNL may allocate work of collection of EB bills and submission to the concerned site in charge, submission of EB cheques to EB office from BSNL office, note down the closing electricity meter reading every month in every site and will intimate the same to the field officer along with entry in log book. Abnormal meter reading cases is to be immediately brought to the notice of the Concerned BSNL-in-charge. Electricity Bill collection/ correction (if wrong/ average) and intimation to concerned site in charge. Regarding Replacement of faulty electrical meter case to be immediately reported to the Concerned BSNL-in-charge.
- xl. Prevent misuse of electricity from the site. Penalty to be imposed if theft/misuse of electricity is detected as assessed by BSNL. This will be over and above the other penalties and will not be subject to capping if any
- xli. Sanction from EB/ police authorities to be arranged by the Vendor wherever necessary.
- xlii. The fire & smoke cum intruder detection systems installed in BTS sites are to be maintained by the bidder for its proper working. Periodic checking for the proper working of these systems and necessary repair/ replacement of faulty units are to be carried out by the bidder. The bidder shall maintain the fire extinguisher of CO2 in all BTS/exchange sites under maintenance.
- xliii. Routine check and Maintenance of Earth of power plant /BTS/ exchange and record the same in log book.
- xliv. Watering earth pit and ring earth of the tower.
- xlv. Battery cell replacement shall be done by the Bidder as & when required. This may involve rearrangement of the cells from other sites. Periodical check-up of power plant modules working, load sharing and ensuring sufficient Modules are available for Equipment in consultation with Site In charge and Charging of Battery
- xlvi. Bidder to deploy the skilled resources for Section maintenance minimal per 10 sites for better maintenance and fault rectification. These numbers could be fixed by the respective BA/ Circle based on area specific condition.
- xlvii. In case of any loss or theft of any material/equipment at BTS site, concern person of bidder at BTS site is liable to lodge the DDR (Daily diary register) / FIR within one hour for the same to Police Authority and get CSR from police authorities. Primary responsibility is of bidder, if required BSNL site incharge will extend the help.
- xlviii. Bidder has to take "Take Over Certificate" of a BTS site along with all hardware /equipment details before commencement of contract from concern site in charge of BSNL
- xlix. For any tendered work not attended in time, BSNL will have the right to get it done from external resources and payment made to them will be recovered from bidder as per actual expenditure incurred at market rate .

*1:- The maintenance of Exchanges will include maintenance of Landline Exchanges, DSLAM, transmission equipments, USO Wife

Hot Spots & other Exchanges equipments etc. for keeping the equipments in working condition. However, as subject matter pertain to CFA cell, therefore, circle may include suitable activities/ penalties for these exchanges from CFA tender of the circle

B.BTS & Infrastructure Maintenance for Non-BSNL sites (Excluding IP sites) (2G and/or 3G and/or 4G)

- i. These are the sites housing only Mobile sites either 2G and/ or 3G and/ or 4G or a combination of them with other telecom equipment
- ii. Cleaning, security (to the extent of alerting any abnormal observation at the site during visits, intimating/ lodging of complaints/ FIR with police authorities promptly w.r.t. any incident, ensuring functioning of lock & key and upkeep of the site including all equipment, tower surroundings, shelter/OD cabinet, Media equipment, DG etc. This includes bush cutting in the BTS sites/ Exchanges in open areas. All tools & Cleaning material to be provided by the bidder.
- iii. All leftover BTS related alarms, if any need to be made functional and to be extended upto OMCR within one month of operation. Equipment required for Alarm Extension to be provided by BSNL.
- iv. Prompt action on receipt of instructions (by call or by SMS) from concerned officer regarding manual assistance in rectification of alarms/ faults in site.
- v. The Bidder should ensure that fault is attended even in case of water-logging due to rain etc., the maintenance staff should be provided necessary accessories/gum-boots etc.
- vi. The bidder must ensure that the staff attending the BTS site will never engage into any argument with landlords for NBSNL sites. If site technician/security/caretaker refuses to allow access to site during both Normal and odd hours, the staff should immediately report to Site In charge and must not leave site until the Site in-charge gives permission to do so
- vii. Replacement of the faulty modules with repaired modules as per instructions of Site Incharge
- viii. In case of BTS outages due to control card faults of BTSs/ NODE-Bs/ e-Node Bs fault, replace the fault items with the spare module/ cards as per instructions of BSNL Site In charge.
- ix. Faulty card/ unit to be deposited at designated centre as per requirement & collection of repaired unit. (It will be the responsibility of bidder that during transportation no cards/units get damaged).
- x. In case of BTS outages due to card faults of rectifier modules fault of power plant etc, replace the faulty items with the spare module /cards available from normal spare availability location or from nearby sites as directed. The card/module extraction/insertion and transport shall be as per the recommended practice of the OEM/guidance of BSNL
- xi. Any Mini Link/ OFC failure to be intimated to site in charge for prompt restoration of OFC fault, details of visual alarm noticed to be communicated to the maintenance In-charge.
- xii. To check Earth Connectivity is available at BTS/ Node B/ e-Node Bs (All measuring instruments to be provided by the vendor).
- xiii. Vendor personnel should be provided with photo ID cards by Outsourcing Vendor
- xiv. The field staff being deployed should be provided with 2 SIMs one of BSNL & other from private TSPs for communication when BTS site is down. The list of same shall be provided at the time of Agreement. In case of any change in staff during the contract, the same shall be updated. BSNL employees too will share their 2 Mobile nos. of BSNL and other TSP
- xv. Maintaining EMF related boards and help in providing data for Biennial/Triennial submission of EMF Radiation for Mobile sites. (Bidder shall assist in Biennial/Triennial related activities like getting photograph & uploading to SSA CMTS Team etc.).
- xvi. Assistance in handling of minor store items.
- xvii. Ensure working of Power plant alarms with OMC-R.
- xviii. First line maintenance of power plants, battery and any problem reported (Any problem to be reported within 3 hrs)
- xix. Bidder to perform Preventive Maintenance activities as per the PM Annexure will maintain the register for this activity and will submit the copy of the same duly verified by concerned unit-in-charge along with monthly bill.

- xx. Periodically check-up power plant modules working, load sharing and ensuring sufficient Modules are available for Equipment in consultation with Site Incharge and Charging of Battery.
- xxi. Tightening of all nuts/ screws in interconnecting point of power cable from EB panel board to each equipment.
- xxii. To ensure the control card is functioning properly so that battery do not go to deep discharge.
- xxiii. In case of any Power Plant outages due to fault in control card intimation to be given to Site In charge for attending the same on priority.
- xxiv. The bidder has to supply and maintain a log book in every site. It is the responsibility of the bidder to update the logbook promptly. All the log books get signed by the concerned officer in the first week of next month and submit with the invoice
- xxv. Conducting Battery Backup test with Existing Load at least in quarterly & record the same in Log Book.
- xxvi. Bidder has to provide related testing equipments & necessary conveyance to discharge the functions listed in the tender.
- xxvii. Air filter cleaning in BTS/ Node B/ e-Node B, every month and entry in log book of site.
- xxviii. Routine check of free cooling systems available at site and DG set and other Equipments i.e. BTS/ Media etc. and record the same in log book as per the periodicity defined for the visit (monthly). Reporting of any alarms/faults/untoward incident to the concerned officer.
- xxix. Monitoring of Power Plant voltage and smooth change over in the absence of electricity.
- xxx. To provide assistance under various BTS site activities includes minor civil and electrical works such as repair/replacement of MCB, & Switch, Aviation bulb, EB service cable, armoured AC cable replacement up to DG, repair/replacement of parts of LT panel/ lighting fixtures / smoke & fire alarm system / site earthing/ surge protection/ A/C unit etc.
- xxxi. Preventive checks and maintenance of Earthing & Lightning Protection systems including periodic checking/correction of these systems to ensure that all equipments are protected against surge/lightning related damages. This includes augmentation of the existing earthing/ lightning system where ever required, replacement of any rusted components, tightening of joints, replacement of lightning damaged components in infra equipments/electrical circuitry including ELCBs/surge protection devices/fuses/cables etc
- xxxii. Maintenance of Tower Aviation light. Bidder to ensure working of Aviation light.
- xxxiii. Due to heavy dust, temperature of BTS increases and efficiency degrades. Hence, cleaning of all types of BTS equipment & other infrastructure need to be carried out. This should be done using proper tools (to be arranged by the bidder) including vacuum cleaner and under supervision.
- xxxiv. Assistance to transmission media team for extension of loop test, observation of alarm indicators, giving reset etc for troubleshooting shall be done. Testing of E1/FE/GE and other media activities from BTS site to BSC/ RNC related equipment (looping/ measuring of Optical power) as and when required.
- xxxv. Periodicity of visit to be once in 5 days for NBSNL sites
- xxxvi. Site visit/ inspection/ cleaning activity proof to be provided at least once in a month to the Site Incharge
- xxxvii. Report EB failure of sites to concerned EB unit and intimate the docket no: if any, to concerned BSNL official. Constant Coordination with Electricity Board/ Corporation for restoration of power in consultation with BSNL Site Incharge and after restoration of EB power, ensure proper working of PP/DG.
- xxxviii. BSNL may allocate work of collection of EB bills and submission to the concerned site in charge, submission of EB cheques to EB office from BSNL office, note down the closing electricity meter reading every month in every site and will intimate the same to the field officer along with entry in log book. Abnormal meter reading cases is to be immediately brought to the notice of the Concerned BSNL-in-charge. Electricity Bill collection/ correction (if wrong/ average) and intimation to concerned site in charge. Regarding Replacement of faulty electrical meter case to be immediately reported to the Concerned BSNL-in-charge.
- xxxix. Prevent misuse of electricity from the site. Penalty to be imposed if theft/misuse of electricity is detected as assessed by BSNL. This will be over and above the other penalties and will not be subject to capping if any
- xl. Sanction from EB/ police authorities to be arranged by the Vendor wherever necessary
- xli. The fire & smoke cum intruder detection systems installed in BTS sites are to be maintained by the bidder for its proper working. Periodic checking for the proper working of these systems and necessary repair/replacement of

faulty units are to be carried out by the bidder. The bidder shall maintain the fire extinguisher of CO2 in all BTS sites under maintenance.

- xlii. Routine check and Maintenance of Earth of power plant / BTS and record the same in log book.
- xliii. Battery cell replacement shall be done by the Bidder as & when required. This may involve rearrangement of the cells from other sites. Periodical check-up of power plant modules working, load sharing and ensuring sufficient Modules are available for Equipment in consultation with Site In charge and Charging of Battery
- xliv. Bidder to deploy the skilled resources for Section maintenance minimal per 10 sites for better maintenance and fault rectification. These numbers could be fixed by the respective BA/ Circle based on area specific condition
- xlv. In case of any loss or theft of any material/equipment at BTS site, concern person of bidder at BTS site is liable to lodge the DDR (Daily diary register) / FIR within one hour for the same to Police Authority and get CSR from police authorities. Primary responsibility is of bidder, if required BSNL site incharge will extend the help.
- xlvi. Bidder has to take "Take Over Certificate" of a BTS site along with all hardware /equipment details before commencement of contract from concern site in charge of BSNL
- xlvii. For any tendered work not attended in time, BSNL will have the right to get it done from external resources and payment made to them will be recovered from bidder.

C) BTS Maintenance for Infrastructure Provider (IP) sites (2G and/or 3G and/or 4G)

- i. These are the Infrastructure Providers (IP) sites housing only Mobile sites 2 G and/ or 3G and/ or 4G or a combination of them.
- ii. All leftover BTS related alarms at IP sites, if any need to be made functional and to be extended upto OMCR within one month of operation. Equipment required for Alarm Extension to be provided by BSNL.
- iii. Prompt action on receipt of instructions (by call or by SMS) from concerned officer regarding manual assistance in rectification of alarms/ faults in site.
- iv. The Bidder should ensure that fault is attended even in case of water-logging due to rain etc., the maintenance staff should be provided necessary accessories/gum-boots etc.
- v. The bidder must ensure that the staff attending the IP site BTS will never engage into any argument with IP site security/caretaker/technician. If site technician/security/caretaker refuses to allow access to site during both Normal and odd hours, the staff should immediately report to Site In charge and must not leave site until the Site in-charge gives permission to do so.
- vi. Replacement of the faulty modules with repaired modules as per instructions of Site Incharge
- vii. In case of BTS outages due to card faults of BTSs/ NODE-Bs/ e-Node Bs fault, replace the fault items with the spare module /cards as per instructions of BSNL Site In charge
- viii. Faulty card/units of BTS sites and other equipments need to be deposited at designated centre as per requirement & collection of repaired unit. It will be the responsibility of bidder that during transportation no cards/unit get damaged.
- ix. Any Mini Link/ OFC failure to be intimated to site in charge for prompt restoration of OFC fault, details of visual alarm noticed to be communicated to the maintenance In-charge.
- x. Air filter cleaning in BTS/ Node B/ e-Node B, every month and entry in log book of site.
- xi. For prolonged failure of Electricity as intimated by BSNL officer, Coordination for restoration of EB in consultation with IP In charge.

- xii. To check Earth Connectivity is available at BTS/ Node B/e-Node Bs (All measuring instruments to be provided by the vendor).
- xiii. Vendor personnel should be provided with photo ID cards by Outsourcing Vendor
- xiv. The field staff being deployed should be provided with 2 SIMs one of BSNL & other from private TSPs for communication when BTS site is down. The list of same shall be provided at the time of Agreement. In case of any change in staff during the contract, the same shall be updated. BSNL employees too will share their 2 Mobile nos. of BSNL and other TSP.
- xv. Maintaining EMF related boards and help in providing data for Biennial/Triennial submission of EMF Radiation for Mobile sites. (Bidder shall assist in Biennial/Triennial related activities like getting photograph & uploading to SSA CMTS Team etc.).
- xvi. Assistance in handling of minor store items.
- xlvi. Ensure working of Power plant alarms with OMC-R.
- xlix. First line maintenance of BTS/ media equipment and any problem reported.
- xvii. Bidder to perform Preventive Maintenance activities as per the PM Annexure will maintain the register for this activity and will submit the copy of the same duly verified by concerned unit-in-charge along with monthly bill.
- xviii. In case of any Power Plant outages due to fault in control card intimation to be given to Site In charge/ IP incharge for attending the same on priority.
- xix. Bidder has to provide related testing equipments and necessary conveyance to discharge the functions listed in the tender.
- xx. Bidder should provide safety shoes, helmets to maintenance staffs as per safety regulations of IPs e.g. INDUS, ATC for attending faults in IP sites
- xxi. Routine check of Equipments i.e. BTS/ Media etc. and record the same in log book as per the periodicity defined for the visit (monthly). Reporting of any alarms /faults/untoward incident to the concerned officer.
- xxii. Periodicity of visit to be atleast once in 2 weeks for IP sites.
- xxiii. Site visit/ inspection/ cleaning activity proof to be provided at least once in a month to Site Incharge.
- xxiv. Due to heavy dust, temperature of BTS site increases and efficiency degrades. Hence, cleaning of all types of BTS/media equipment need to be carried out. This should be done using proper tools (to be provided by the bidder) including vacuum cleaner and under supervision.
- xxv. Cleaning of the site including BTS OD cabinet & Media equipment etc. All tools & Cleaning material to be provided by the bidder
- xxvi. Assistance to transmission media team for extension of loop test, observation of alarm indicators, giving reset etc for troubleshooting shall be done. Testing of E1/FE/GE and other media activities from BTS site to BSC/RNC related equipment (looping/ measuring of Optical power) as and when required.
- xxvii. For any tendered work not attended in time, BSNL will have the right to get it done from external resources and payment made to them will be recovered from bidder.

D. Rigger activities for BSNL, Non-BSNL and IP sites

- i. Dismantling of Antenna
- ii. Installation of Antenna
- iii. Dismantling of Antenna Fixture (for phase/ Space diversity antenna)
- iv. Fixation of Antenna Fixture (for phase/ Space diversity antenna)
- v. Height lowering of Phase Diversity Antenna along with fixture
- vi. Hoisting of RF Cable including connectorisation
- vii. Removing of RF Cable
- viii. Installation of Microwave Dish Antenna (Mini Link)
- ix. Dismantling of Microwave Dish Antenna (Mini Link)
- x. Microwave Link LOS work including ODU replacement
- xi. ODU Replacement for Minilink.
- xii. Re-orientation/ Tilt adjustment of Antenna.
- xiii. Verification/ Replacement of weather proof tapes to prevent water entry.
- xiv. Verification/ replacement of connectors/ fittings and removal of VSWR including connectorisation and weather proofing.
- xv. Assistance in Verification/correction of MW LOS.
- xvi. Verification/ correction of Lightning Arrestor and its fittings.
- xvii. Sector addition.
- xviii. Antenna Changing.
- xix. Microwave Fault attending.
- xx. Microwave installation/replacement.
- xxi. CPRI cable fault attending/replacement.
- xxii. Feeder/ RF/ OF cable fault attending and replacement.
- xxiii. 2G/3G/4G booster installation.
- xxiv. 2G/3G/4G Repeater installations.
- xxv. Any other related works in Tower.
- xxvi. Antenna Orientation & Tilt as per requirement for optimization.
- xxvii. VSWR fault rectification per sector (includes reconnectorisation, jumper cable change & weather proofing) (Handheld VSWR meter to be provided by the Vendor as per requirement)
- xxviii. Checking & correction of RF cable/ Fiber swap, Antenna at RRH, removal of bird/honey bee/wasp nest.
- xxix. Hoisting of CIPRI cable to RRH (Base Unit to RX unit on tower), per meter
- xxx. Connectorization of CIPRI Cable at RRH, per Site
- xxxi. Hoisting of Power cable to RRH (Base Unit to RX unit on tower), per meter
- xxxii. Connectorization of Power Cable including boot sealing, at RRH, per Site
- xxxiii. Running of Earthing Cable with connectorization to RRH, per meter
- xxxiv. VSWR fault rectification per sector (includes reconnectorization, jumper cable change & weather proofing), at RRH and Antenna ends
- xxxv. Hoisting of IF cable with connectorization, per meter
- xxxvi. RF module dismantling with SFP, per module
- xxxvii. Fixing of wall mounting fixture, per fixture
- xxxviii. Installation of RF cable tray for wall mounting Antenna per meter
- xxxix. Installation of Micro/ Macro BTS Equipment per unit
- xl. Laying of RF Cable per meter for Micro BTS (50M /site)
- xli. Installation of Splitter including connectorization
- xl.ii. Installation of Patch/Panel/ Omni antenna with connectorization
- xl.iii. RF Repeater Installation including Yagi/ Panel Antenna & RF Cable of 25M
- xliv. Completion of ordered RF optimization/ rigger activity.

- xliv. Restoration of Rigger related fault resulting in site fully/ partially down
- xlvi. RRH replacement (dismantling and installation) in case of faulty one or new one
- xlvii. RRU link (Link between BBU-RRH link) restoration for RRH sites along with provision to provide the RRU link materials if found damaged).
- xlviii. If the microwave IDU/ODU IF connector faulty, the bidder is to arrange these IF connectors and replace them
- xliv. EGB / IGB fixing.
- I. Grounding of feeder cable.
- li. Laying of RF jumper cable and Connectorization of jumper cable.
- lii. Fixing of surge arrestors.
- liii. Heat shrinks joint at Indoor jumper / power cables.
- liv. Hoisting / de-hoisting of RRH.
- Iv. Hoisting / de-hoisting of Microwave IF cable from IDU to ODU on tower with connectorization.
- Ivi. Hoisting / de-hoisting of Radio modem ODU with antenna.
- Ivii. De-hoisting CAT (1+1) cable from antenna (ODU) on tower to IDU.
- Iviii. Alignment of Radio modem antenna at A and B end for link up of the system.
- lix. Rigger activities including Hoisting / Dehoisting of all type of RF work
- Ix. Hoisting / Dehoisting of Heavy RF material require supporting workers and may be included in tender.
- Ixi. RRH/RRU attending or replacing antennae required additional man power apart from rigger alone. In present tender we struggled each time arranging additional manpower during replacement of faulty RRU/RRH. Such arrangements should be there in new tender.
- Ixii. Changing of OVP (Over Voltage protection)
- Ixiii. All measuring/ safety materials and proper dedicated transport to be provided by the Vendor, BSNL will not be liable for any claim against any accident/ mishappening occurs while performing any task defined under this tender by the bidder personnel.
- Ixiv. Any other activity with minor modification in RF as per guidance of BSNL
- Ixv. For any tendered work not attended in time, BSNL will have the right to get it done from external resources and payment made to them will be recovered from bidder

E. Scope related to Diesel filling and DG operation (Excluding IP sites):

- i. BSNL has an MOU with oil companies for procurement of diesel from their specified outlets through petro/ fleet cards. Petro/ fleet card will be issued to the vendor or his authorized person & payment will be made directly to the oil companies by BSNL. The bidder(s) shall draw diesel by means of the fleet card/petro- cards under the control of SDE/ SDO. The bidder(s) shall use appropriate vehicles (to be arranged by the bidder) for transportation of diesel from the designated nearest petrol pump to the sites. Any loss/ misuse of the petro/ fleet cards issued to the vendor will be the responsibility of the Vendor. Any such losses will be recovered by BSNL from the vendor by adjusting against the payment due to the service provider or will be recovered from PBG.
- ii. In the case of any pilferage/ misuse causing loss to BSNL, a penalty of 200% of the loss or as decided by the competent authority of BSNL will be imposed on the bidder. Any reduction in the diesel cost/ loyalty benefits in view of the MOU will be availed by BSNL. It will be the responsibility of the bidder to reconcile the diesel consumption as per actual usage in field with that in petrol/ fleet card account.
- iii. The diesel filling in specified BTS sites shall be carried out on a periodic basis, including transportation from Petrol Pump. On an average, every site needs diesel filling as and when required. The service provider shall study the alarms extended from the BTS to learn about the power outage and swiftly act to fill the diesel. Hence, the requirement pattern shall be studied by the supplier and fuel filling be designed accordingly, so as to ensure the availability of fuel ensuring 4 hours of back-up.

- iv. Obtaining a special permit, if any required, from the Motor vehicle department or any other authority for transporting diesel in bulk through motor vehicle shall be the responsibility of the contractor.
- v. Checking the level of diesel in the DG tank at the time of filling (opening level & closing level) and making necessary entries in the prescribed log book for diesel filling. If there is any kind of dispute regarding the diesel consumption, in that case a joint team of bidder(s) and BSNL will carry out the diesel consumption check on the disputed site and the average checked will be used for both retrospective as well as prospective reimbursements for that sites.
- vi. BSNL will not be responsible for any delay in payment of invoices or expenses due to any error, incomplete statement or late receipt of the same.
- vii. The bidder(s) should have technical support to determine and judge the number of electricity units generated by using one litre of diesel fuel. Actual consumption of diesel at site will be verified with the help of CPH, DG HOUR METERS, DG KWH METERS.
- viii. Pilferage of diesel will lead to severe penalty and recovery from the vendor. Therefore, this is in the interest of both Vendors and BSNL that correct hour meter and KWH Meter readings to ascertain actual consumption shall be exhibited at the site, which will be verified by BSNL, from time to time. Records of these parameters shall invariably be maintained. DG servicing and tuning /maintenance should be done to have the maximum fuel efficiency. However, the frequency of DG shall be maintained to the standard level only.
- ix. The Average load of the site shall be reviewed based on actual measurement on quarterly basis. The mechanism of testing and determination of average load shall be decided by department.
- x. Entering DG & Battery voltage readings/status in the BTS site log book
- xi. Checking the meter reading in the DG run hour meter (opening and closing readings) and Controller logged hours (if available) and making entries of DG run hours in the Prescribed log book.
- xii. Running of DG sets as and when required at any time of the day or night. Assisting in Diesel filling. Assistance in the handling of minor store items.
- xiii. During the availability of main electric supply, DGs are not to be run. The operator shall keep the track of drainage of exchange battery voltage and shall start only when the voltage drops to 49 V.
- xiv. In the event of EB supply failure, operator shall operate DG after verifying the sufficient drainage of Exchange battery voltage. If power is not resumed within two hour, he may stop the EA Set and again allow the exchange battery voltage to drain sufficiently. The same sequence should continue till resumption of power supply
- xv. Arranging test run in case, if any dispute arise between the Contractor and the BSNL official concerned.
- xvi. The fuel utilization reconciliation will be based on CPH based validation with run hr meter count plus DG run readings from OMCR/NOC. As per BTS load and capacity of DG, the average CPH may be taken as 2.2 Liter / Hour for DG Sets up to 15 KVA capacity and 2.7 Litre/ Hour for more than 15KVA capacity. However, this is indicative data and actual CPH may depend on individual make/capacity and will be informed by site incharge.
- xvii. DG hour meter and KWH meter and AMF panel incorporated in DG to be kept in working condition and any tampering / fault will entail penalty as well as action for recovery of losses to BSNL.
- xviii. DG battery should be maintained, safeguarded and kept in charged condition at the site so as to start the DG at the time of main supply outage. Life of DG battery is minimum two years. Therefore, if any damage happens to the battery within this period, the agency has to replace it free of cost. At the time of hand over, healthy battery will be provided (approximate used period / manufacturing date will also be indicated).
- xix. Other than the periodic refilling, whenever there is an emergency requirement based on OMCR low fuel alarm or message given by the concerned officer, refilling shall be arranged within three hours on getting such intimation

- xx. BSNL may order for Diesel filling for specific site as per requirement. Ordered diesel filling should be done by the Vendor within 24 hours of intimation.
- xxi. A monthly Site wise statement detailing the opening balance of diesel, diesel filled during the month, closing balance, DG run hours etc shall have to be submitted by the bidder(s) to BSNL.
- xxii. BSNL reserves the right to incorporate and ask for any other reconciliation / operation report during the currency of tender.
- xxiii. The service provider/contractor shall ensure that the DG should be run in case of power failure. The agency has to develop a methodology of getting information of power failure and action to start and stop EA Set accordingly. After power failure and as per the battery voltage conditions, the firm shall make arrangements for DG Start and stop in case auto mode operation of DG set is not functional
- xxiv. A-check of DGs including its test operation, monitoring of fuel/ oil/ coolant level, check leakage if any, test operation of changeover of MSEB/DG supply etc shall be done. All alarms of DG such as Low fuel level, DG on load shall be kept up-to-date for log verifying log book entries.
- xxv. Proper maintenance of earth I /c watering & checking for healthiness up to DG is to be done, to have a stable power supply EA Set.
- xxvi. The payment of diesel cost from BSNL will be limited to actual consumption based on log book after applying the ceiling limit based on the consumption computed with Run Hour meter reading and per hour consumption indicated in this tender document, on a which-ever-less basis.
- xxvii. The payment will be based on logbook entries, but will be limited to monthly consumption based on run hour meter reading and the average consumption in liters/hour for each DG shall be measured along with the BSNL team and jointly signed off soon after any site is added in work order for diesel filling. In general, as per BTS load and capacity of DG, the average CPH may be taken as 2.2 LITRE / HOUR for DG Sets up to 15 KVA capacity and 2.7 Liter/Hour for more than 15KVA capacity. It is to be noted that in no case, hour meter remain non operational for consecutive months
- xxviii. The bills will be verified, passed & forwarded by BSNL representative based on the consumption in liters / Hour indicated in the tender document. Any extra cost incurred will be the responsibility of the bidder. If the diesel cost through Petro/ fleet card is found to be less than the diesel consumption based on mileage, the bidder will not have any claim for the additional cost.
- xxix. The sites for which even one instance of diesel filling in the month is not recorded will not be considered for Diesel filling expenses for the said month.
- xxx. In the case of MOU with oil companies, BSNL will pay directly to the Oil companies. Any excess usage of Diesel after tallying with log book entries/Run hour meter will be adjusted from bills at the end of every quarter.
- xxxi. The bidder has to supply and maintain a log book in every site/ Exchange for Diesel filling. It is the responsibility of the bidder to update the logbook promptly on Diesel filling.
- xxxii. Concerned BSNL officers will periodically verify the logbook entries and put their initials. The bidder has to seal and lock the hour meter in the presence of BSNL representative. Every month the hour meter reading is to be noted by bidder along with the BSNL representative and a consolidated statement along with log book reports is to be submitted by the bidder. Under any circumstances if any of the units like run hour meter is faulty then the diesel filling should be done under the supervision of any of the BSNL officers/ persons authorized by BSNL.
- xxxiii. If the bidder provider feels that average consumption per hour in that site is to be reviewed due to aging of DG or other factors then a test run can be requested by the bidder to recalculate the Average consumption/hour for that particular site. The test run will be conducted by a joint team

Consisting of representatives of bidder and BSNL. Once having jointly signed off on CPH, review will not be made for another six months.

xxxiv. If any fraudulent activity by the personnel deployed in filling of diesel/ running of DG in Mobile sites is detected by BSNL authorized personnel/officer, then the bidder(s) is liable to pay penalty as assessed by BSNL i.e. the cost of consequential damages to installation(s)/DG set(s) would be deducted at actual, from the bidder's bill. This will be over and above the other penalties and will not be subject to capping if any.

xxxv. For any tendered work not attended in time, BSNL will have the right to get it done from external resources and payment made to them will be recovered from bidder

F : DG Set Maintenance Activities:

Weekly/ monthly DG check schedule need to be followed and any problem need to be communicated to Mobile/Exchange site In-charge. Weekly/ monthly schedule alongwith the maintenance activities to be covered will be communicated by Mobile/ Exchange site Incharge. Suggestive activities are as below:

- i. Make sure there are no fluid leaks
- ii. Run the generator (typically no-load, automatic transfer switch exercise cycle).
- iii. Verify that the unit ran and has no alarms or warnings.
- iv. Ensure adequate fuel levels.
- v. Ensure that the generator is in "Auto" mode, for automatic startup.
- vi. Check engine coolant level.
- vii. Check engine oil level.
- viii. Check the battery charger.
- ix. Run the generator (with load, automatic transfer switch exercise cycle).
- x. Manual assistance in changeover of MSEB/DG supply and attending to minor faults like tripping of switches, manual changeover in AC units, swapping of power plant unit etc.
- xi. Routine check of DG, Power plant, Battery and Equipments and record the same in log book as per the instructions given in the log book. Reporting of any alarms/ faults/ untoward incident to the concerned officer.
- xii. Assisting in Diesel filling in the DG Set available at the site.
- xiii. Check the battery electrolyte level and specific gravity.
- xiv. Check battery cables and connections.
- xv. Inspect drive belts.
- xvi. Inspect the coolant heater.
- xvii. Check coolant lines and connections.
- xviii. Check for oil leaks and inspect lubrication system hoses and connectors.
- xix. Check for fuel leaks and inspect fuel system hoses and connectors.
- xx. Inspect the exhaust system, muffler and exhaust pipe.
- xxi. Check and clean air cleaner units.
- xxii. Inspect air induction piping and connections.
- xxiii. Inspect the DC electrical system, control panel and accessories.
- xxiv. Inspect the AC wiring and accessories.

G: PENALTY :

S.N.	Activity	Time lines for attending/rectification	Penalties (persite)	Severity level	
A	Complete outage	*Satisfactory support in Site upkeep and prompt action for rectification of alarms/faults in site <input type="checkbox"/> Replacement of faulty BTS/Mini-Link cards /Rigger activity/ PP modules / Cables in case of complete outage.	<2hrs	NoPenalty	Critical
			>2to4<hrs	Rs30/hr	
			>4to8<hrs	Rs50/hr	
			>8to12<hrs	Rs100/hr	
			>12hrs	Rs200/hr	
B	Partial outage	<input type="checkbox"/> Satisfactory support in Site upkeep and prompt action for rectification of alarms/faults in site <input type="checkbox"/> Replacement of faulty BTS /Mini-Link cards / Rigger activity/PP modules / Cables in case of partial outage. (sector down due to VSWR)	<12hrs	NoPenalty	Major
			>12to24<hrs	Rs20/hr	
			>24hrs	Rs30/hr	
C	QoS	Attending/rectification the fault related to (rigger activity,VSWR,Tilt,Orientation, Antenna height adjustment, swapping etc.)	<24hrs	Nopenalty	Major
			>24to48<hrs	Rs10/hr	
			>48hrs	Rs30/hr	
D	Alarm	BTS/PP/INFRA related ALARM EXTENSION upto OMCR, ensure working of alarms	one month of docket booking	NoPenalty	Major
			More than one month	Rs50/day	
		Attending/rectification the fault related to BTS/PP/INFRA related Alarm	<24hrs	NoPenalty	
			>24to48<hrs	Rs10/hr	
			>48hrs	Rs30/hr	
E	Misc	Faulty card/units to be deposited at designated centre and collect repaired unit	1day	NoPenalty	Major
			>1day	Rs50/day	
		Removal of bird/honey bee/wasp nest, Aviation lamp	7 days of docket booking	NoPenalty	
			>7day	Rs50/day	
		cleaning/bush cutting at site within week per instances per site	7 days of docket booking	NoPenalty	
			>7day	Rs50/day	
		Periodical check-up of PP & battery charging	7 days of docket booking	NoPenalty	
			>7day	Rs50/day	
		Maintaining EMF related boards and help in providing data for Biennial/Triennial submission of EMF Radiation for Mobile sites.	7 days of docket booking	NoPenalty	
			>7day	Rs50/day	
		1 day ofintimation	NoPenalty		

		Ordered Diesel filling	>1day	Rs100/day	
F	DG Operation	Starting of DG set as required/ power failure	<3hrs	Nopenalty	Critical
			>3hrs	Rs.100/hr	
		filling of Diesel at the site/exchange resulting in site/exchange being fully / partially down	<3hrs	Nopenalty	
			>3to6<hrs	Rs50/hr	
			>6to12<hrs	Rs100/hr	
>12hrs	Rs200/hr				
G	PM	PM activity as listed in Annexure	Beyond the timeline defined in PM Annexure	Rs100 /week	Minor
H		First line maintenance/ reporting	<3hrs	Nopenalty	Minor
			>3hrs	Rs.20/Hr	
		Any other single instance of non-completion of ordered activity & single instance of performance deviation as per tender, unless defined in the above penalties	>1 daydelay	Rs.30/day	Minor
General: Performance deviation due to BSNL reasons will be exempted from Penalties					
1	Missing/damage/theft of the card/unit after taking custody of the same from BSNL till deployment in BTS / Equipment will be vendor's responsibility and the actual cost of the card will be recovered from the bill.				
2(i)	Penalties attributable to the bidder will be capped to 20% of the total contracted value for the services of the relevant invoice period. However, if total penalties reaching the capping limit (i.e. 20%) consequently for 3 months in such cases the capping limit will be revised to 40% of the invoice and it will be restored back to original 20% when the penalties is below 20% for three consequent months.				
(ii)	If the total penalties reaching the capping limit consecutively for 3 Month, BSNL will have the right to terminate the contract of the concerned BA/ SSA without any further notice.				
3	If any fraudulent activity by the personnel deployed in filling of diesel in GSM sites or in site Maintenance activities, is detected by BSNL authorized personnel/officer, then the bidder is liable to pay penalty i.e. The cost of consequential damages to any BSNL equipment/installation(s)/DG set(s) would be deducted at actual, from the service provider's bill. This will be over and above the other penalties and will not be subject to capping if any.				

H: PREVENTIVEMAINTENANCE

Appendix-A(PMchecklist)

1	Power Plant Testing	Monthly	To be done as per Appendix-II
2	AMF/ACPDB Panel Checking	Monthly	
3	Battery Bank Testing	Quarterly	
4	Air Conditioner Testing	Monthly	
5	External Alarm Testing	Weekly	
6	General Inspection	Monthly	
7	Earthing Value test	Sixmonthly	
8	DG Set Checking	Weekly	
9	Cleaning	Monthly	
10	Grass Cutting and External Cleaning	Weekly	
11	Pre Monsoon Checkups	Quarterly	

Appendix-II

S.No.	Equipment Type	Work to be done
1	Power Plant Testing	Proper working of Power Plant with the existing Modules, Dust cleaning, Tightening of Input and output terminals, replacement of burnt lugs and connections, earthing, Alarms, etc.
2	AMF/ACDB Panel Checking	Tightening of Input and output terminals, replacement of burnt lugs, fuses and connections in ACDB, removal of excess sagging of service wire from pole to ACDB, dry joints at poles in co-ordination with EB officials, AMF panel with Alarms, etc.
3	Battery Bank Testing	Battery cells physical checking with voltage after disconnecting EB mains supply, cleaning of Batteries and battery terminals, tightening of all the Battery terminals, providing of jelly to the terminals, Test discharge of Battery. Log book entry to be made for battery voltage value.
4	Air Conditioner Testing	Checking of Proper working of AC unit through control panel, filter cleaning, working of Temperature sensor, checking of all the electrical connections, etc.,
5	External Alarm Testing	Extension of external alarms and Checking of proper working of external alarms. The current list is being attached. The list of alarms to be updated by BSNL CO from time to time.
6	General Inspection	Inspection of BTS site including all the equipments along with BSNL team , Checking of all the log books/records maintained in the site, condition of signage boards(EMF related), checking of proper working of all the doors/door hinges of BTS, DG and Shelter/Room.
7	Earthing Value test	Exchange/BTS/Tower earth check. Checking of earth resistance of AC and DC as per the standard value
8	DG Set Checking	Checking of proper working of DG set by test run, Tightening of Input and output terminals, replacement of burnt lugs and connections, dust cleaning, checking of oil leakages, checking of DG related Alarms, etc.,
9	Cleaning	Cleaning of Room/Shelter/Compound Area, Filter & dust cleaning of BTS/Exchange and other equipment.
10	Grass Cutting and External Cleaning	Regular maintaining of BTS site/Tower/Exchange by Cleaning and removing of vegetation/Grass/Bush/creepers.

11	Pre Monsoon Checkups	Checking of proper working of DG, preservation of fuel for DG with sufficient quantity, checking and cleaning of EB connections from electrical pole to ACDB in co-ordination with EB officials.
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Appendix-III (General Inspection)

Sl. No.	CheckList	Specifications	Observations/Remarks
1	Shelter properly cleaned	yes/no	
2	Any Extra material inside shelter	yes/no	
3	DG Set / canopy properly cleaned	yes/no	
4	VRLA Battery Bank	ok/notok	
5	General site cleaning	done/not done	
6	Aviation Light & its functioning	ok/not ok	
7	Lightening Arrestors and its connection	ok/not ok	
8	DG silencer and Earthpit paint	ok/not ok	
9	Shelter outside cleaning	ok/not ok	
10	Grass cutting	ok/not ok	
11	Outside cleaning	ok/not ok	
12	Light system indoor & outdoor	ok/not ok	
13	Proper shading or Energy Meter	ok/not ok	
14	Cheating for overheating of Energy Meter	ok/not ok	
15	Earth pit condition	ok/not ok	
16	Any leakage inside/ outside the DG	ok/not ok	
17	Any Waste material at site like used lube oil used filters, old clothes.	yes/no	

2. SCOPE OF WORK :- OFC & Associated equipments Need/ Fault based Maintenance :

BA is a unit of CG TELECOM Telecom BSNL (A Govt. of India Enterprise), responsible for the maintenance of Optical Fiber Cable network and systems in clusters of BA. The OF cable is generally laid along the side of the Road (National Highways, State Highways, Municipal Corporation, Rural roads) to connect Telecom Installations and various network elements in BSNL.

The maintenance activity shall mainly consist of:

- i) Preventive Maintenance
- ii) Corrective maintenance of OFC routes
- iii) Scheduled and planned Maintenance of OFC routes etc.
- iv) Improvement of technical parameters of Network
- v) Collection of GPS coordinates and mapping them on MAP.
- vi) Use of Prajwal app during work

Note:- Contractor is expected to lay the OFC route including laying of PLB pipes, pulling OFC and jointing of the cable for upto maximum 1% of the estimated quantity of route length during agreement period in order to meet new requirement, there will be separate WO for the work.

The route index drawings will be provided to the contractor by BSNL during the currency of the maintenance contract

ONCE. 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 & HANDOVER UPDATED DOCUMENTED DETAILS of the Network to NEXT CONTRACTOR at the end of currency of the CONTRACT. 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 contractor can be asked to work in any other Section of as per NIT at the rate approved for that Section in case of any exigency.

The detailed scope of contract is as under:

Since it is a maintenance contract on need/ fault basis, any work undertaken by BSNL / Vendor shall be on work order basis exclusive as per details of work specified in Work order. The Work order shall be issued in advance / post completion of work in case of faults by AGM/ DE of BSNL.

1. Preventive Maintenance:

Accordingly the laid optical fiber can have the maximum up-time if the probable damages/ cuts/theft could be prevented. For that all the routes should be properly patrolled and guarded time to time and when required to know any perceived threat to the laid underground fiber cable generated due to planned/under-execution digging activities undertaken by other agencies on laid fiber route or otherwise.

Now a day's largely all the digging activities require prior permission of various civic agencies and in majority of cases the permission process is online and such digital records are available to the interested parties. Therefore, the effectiveness of the patrolling is co-related to the efficacy of gathered information for the preapproved/sanctioned digging permission by various civic

agencies like Municipal corporations, PWD etc. Accordingly, it is expected that the vendor will develop an eco system to obtain maximum real time relevant information from the civic agencies and would utilize the gathered information to protect the laid underground cables at the proposed locations or at the perceived digging points or at potential threat points on account of the physical

activities undertaken by other agencies/private bodies. Further, it is also observed that many such digging

activities are executed in night/week hours due to various reasons especially due to heavy road traffic

violation. Therefore, availability of patrolling and preventive activities on 24*7 basis is a must.

The primary focus is to avoid the occurrence of OFC cuts/damage due to any activity by any person or agency or due to natural reasons for which contractor has to employ route patrolling & other innovative method.

The following steps have to be ensured for Route Patrolling:

- a. The patroller should install Prajwal App of BSNL.
- b. There shall be a patrolling team per route. The contractor shall deploy the route patroller with motor cycle for every Route with compatible mobile hand set.
- C. Bidder to be ensured the FRT members are properly mapped in Prajwal App.

Accordingly, it is expected that the vendor would ensure:-

- i. Availability of resources on 24x7 basis.
- ii. Patrolling of all allotted sections on daily basis in a scientific manner to achieve its objective effectively.
- iii. BSNL expects a 25% reduction in the cable cuts/damages/theft compare to last year cable faults on monthly basis. Exceeding to permissible faults/cuts/damages/theft limit on monthly basis would attract penalty as defined.

- iv. Develop an eco system to obtain maximum real time relevant information from various agencies.
- v. The contractor may use any mode of transport as convenient and required for proper patrolling on the route.
- vi. The contractor shall make/update the OF cable route diagrams using GPS having the details of pits/joint locations/coils/RCC chambers etc. regularly and submit to BSNL.
- vii. Closely liaison with all Government and Non-Government bodies/authorities and also farmers/ land owners to collect their plan of activities for the routes on weekly basis, which may prevent damages to the OF Cables.
- viii. The Outsourced Agency shall be constantly in touch with the following authorities so as to update himself with the proposed works that may be executed by them in near future. The Outsourced Agency 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 Outsourced Agency 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 areas under:-
 - a. National Highway works such as widening of roads, embankment works, major bridge, sub-way, Fly over, culvert works and tar melting work on the cable routes, which may cause damage to the cable.
 - b. State Highways, R&B Departments as mentioned above.
 - c. Water Supply Department works may trench on our cable route and as such extreme care is to be taken.
 - d. Railway department works such as construction of over bridges /under bridges, etc.
 - e. Forest department works, such as plantation/removal of trees on the cable routes, which may cause damage to cable.
 - f. Electricity board works like trenching on our cable routes, erection/removal of electricity boards posts on cable routes, etc.
 - g. 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.
 - h. Any and all Central/ State/District/Municipal/Local/Panchayat / Political Authorities/Agencies / Bodies, etc.
 - i. Putting up of pandals, by social organizations in connection with the visit of VIP meetings and functions.
 - j. Digging wells /pump sets by private parties near the brim of the Highways.
 - k. Works carried out like storm water drain, diversion of rain water on the Highways concerned, by Village Panchayat and Municipal Authorities of the area.
 - l. Excavation / Renovation work being undertaken by private land owners through which BSNL OFC is passing.
- ix. Outsourced Agency 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 Outsourced Agency must immediately inform the designated officer of BSNL and undertake all precautionary measures that will prevent any harm or damage to the OFC. Outsourced Agency 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 Outsourced Agency as per BSNL specifications for which the indicators will be supplied by BSNL.
- x. Outsourced Agency 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.
- xi. FRT/ Route patroller mobile tracking application (Prajwal): The application is intended for tracking members FRT (Fault Rectification Team) of outsourced routes. It can track the movement of members of external agency to whom a route is outsourced once a docket (Cable Fault or Fibre Fault) is booked for the route. It will track the FRT till the closing of docket.

xii. Patroller need to install Prajwal APP in Mobile handset and while patrolling of the Route ,the patroller has to start Route patrol in Prajwal APP by selecting the particular route correspondingly Docket will be initiated. When Route patrolling completed he will stop the Route patrol then the docket will be closed.

2. Corrective Maintenance:

The OFC cut can happen due t activities of various agencies as listed above or due to any otherreason. In spite of the efforts of the Outsourced Agency to prevent the cable cuts, if cable cuts occur, the Outsourced Agency shall restore the fault within the permissible time period as specified under fault/need based.The fault restoration shall be done on a permanent basis.

Sufficient numbers of FRT(Fault Repair Team) shoule be deployed depending on Hilly/LWE/Naxal/difficult area to ensure availability of resources on24x7basis. However may not be practical to do permanent restoration of all cases. Wherever it is not able to restore the fault permanently, temporary restoration canbe resorted to avoid traffic loss at Outsourced Agency'sowncostandpermanentrestoration can be done subsequently by the Outsourced Agency.

Fault booking/making over to vendor by BSNL guidelines: -At the time of occurrence of fault, SSA designated nodal officer, will be handed over the fault to Vendor. The faults may also be handed over by BSNL IT system through SMS on FRT mobile. On receiving the fault intimation from BSNL, Vendor will attend the fault as per MTTR clause. If the fault not pertaing to OF Cable maintenance work, the same will be revert back by Vendor to the BSNL nodal officer for clearing the same at BSNL side. In the situation of fault on BSNL side (due to faulty Equipment/Power supply problem) the fault not to be counted on vendor side on **OFC maintenance scope of work**. App based monitoring system will be used for handing over faults to the vendor and completion also will be App based. All this details will be intimated to the approved vendor on finalization.

The corrective maintenance activities to be carried out by the Outsourced Agency are broadly classified as under:

- a. Localization of OFC break.
- 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 where ever required.
- f. Testingoffibers.
- g. Preparation of jointing pit and back fillig of pit with Sand,soil etc.
- h. Splicing of cable.
- i. Protection arrangement 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 updating of route index diagrams.
- m. 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 as per BSNL QoS . The working fibers shall be restored first,followed by others.Sufficient labours hall be engaged for speedy restoration. 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.

Response time is the time taken by the Outsourced Agency 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 Outsourced Agency will be through SMS/Whatsapp/E-mail/fax/telephone.

Restoration of all systems / fibers in the OF cable shall be ensured within 8 hours and in extreme cases only where the permanent restoration is not possible immediately,temporary

OH restoration shall be made within 4 hours with the approval of BSNL's designated officer. However, permanent restoration shall be done during night hours after getting maintenance shutdown within 10 days of temporary restoration. 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 in-charge at the time of submission of the bill on monthly basis. The RID will be provided by BSNL team for above work. The Outsourced Agency has to submit a detailed report regarding the cause of fault, restoration details within 24hrs to the designated officer of BSNL.

During the corrective action by the Outsourced Agency, 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 Outsourced Agency only. The restoration of all such damages caused will be rectified immediately by the Outsourced Agency at his own cost. However this shall not hamper the BSNL OF cable restoration activity.

The route index diagram with offset, along with route and joint indicators etc., details shall be repaired and updated immediately after the rectification of OF cable fault by the Outsourced Agency.

Damages/ Theft of OF cables: - Incident Report for all damages/ theft of OF cables shall be submitted by the Outsourced Agency 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 Outsourced Agency shall own a camera with a provision for date and time stamp for the photos taken. The necessary documentation required and compiled by the Outsourced Agency including investigation report is to be submitted to the designated officer of BSNL.

If any service rendered by the vendor is found defective or abnormal delay, the same shall be got 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 Outsourced Agency.

3 Scheduled Planned Maintenance:

The scheduled planned Maintenance is a planned activity by BSNL for improving the quality of fibers in aOF 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 the discretion of BSNL.

The planned maintenance activity shall be carried out with prior approval of designated officer of BSNL. The shut downs for carrying out the activity will be permitted by BSNL generally during **00:00 to 05:00** hours only on Saturdays and Sundays. But only in exceptional cases where the designated officer of BSNL is satisfied the shut down will be given during day hours.

The scheduled planned activity caters to the following activities:-

- a. Check for rectification of fault to avoid repeat faults.
- b. Protection for the exposed OFC due to various reasons.
- c. Laying of OF cable on overhead for the sections, identified by BSNL.
- d. Cable exposed due to soil erosion.
- e. Re-splicing of fibers for improving the fiber performance.
- f. Verification of route and joint indicators.

The fiber loss measurements shall be taken and submitted to the designated officer of BSNL by the Outsourced Agency as specified.

ALLIED ACTIVITIES:

- a. **Transportation of Materials:** The materials required for executing the work entrusted to the Outsourced Agency against a work order shall be made available at BA Store Depot. In some cases the materials may be available at Sub-Divisional Store Godown. The Outsourced

Agency shall be responsible for transporting the materials, to be supplied by the department 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.

- b. **Disposal of Empty Cable Drums:** The Outsourced Agency shall be responsible to dispose off the empty cable drums after laying of the cables. The cost of various sizes of empty cable drums recoverable from the Outsourced Agency has been fixed taking into account the prevailing market rates as mentioned in this document.
- c. It shall be obligatory on part of the Outsourced Agency to dispose off 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 Outsourced Agency or the Security Deposit.
- d. The Outsourced Agency shall not be allowed to dump the empty cable drums in Govt./Public place which may cause inconvenience to the department / public. If the Outsourced Agency does not dispose of the empty cable drums within 3 days of becoming empty, the Department shall be at liberty to dispose of 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 Outsourced Agency.
- e. **Supply of Materials:** There are some materials required to be supplied by the Outsourced Agency for execution of works 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 Outsourced Agency shall ensure that the materials supplied are of best quality and workmanship and shall be strictly in accordance with the specifications.

4 Route improvement/Expansion work

The route improvement/expansion work has to be taken by the Outsourced Agency on the direction of EIC. The work will broadly require the laying of the PLB, protection pipes, RCC, cable pulling jointing, fixing of route indicator, splicing etc. as per below mentioned specifications. For this, detailed work orders will be issued separately and payment will be made as per the approved rates.

The optical Fiber Cable is laid through PLB Pipes by surface burying at a nominal depth of 1.65 meter and at about 2.0M to 3.0M in trenchless sections. The steps involved in OF Cable construction areas under:

- a. Excavation of trench or ground surface up to a nominal depth of 1.65 M to 3 M., according to Construction specifications along National/State Highways/other roads and also in city limits as per specification.
- b. Laying of PLB pipes/coils coupled by PLB sockets in excavated trenches, on bridges and culverts, drawing of 6mm Polypropylene para 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.
- c. Providing of mechanical protection by R.C.C. Pipes/DWC Pipes and/or concreting /chambering according to construction specifications, where ever required.
- d. Fixing of DWC Pipes/troughs with clamps at culverts/bridges and/or chambering or concreting of DWC Pipes/through, where ever necessary.
- e. Back filling and dressing of the excavated trenches according to construction specifications.
- f. Opening of manholes (of size 3 meters x 1 meters x 1.65 or 3 meters x 1 meters x 1.20 meters depth), replacing existing 6mm P.P. ropes by 8 mm P.P. rope (from manhole to manhole) for ensuring smooth passage for pulling the cable. Pulling of Optical Fiber 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, putting split PLB pipes and split RCC pipes with proper fixtures over cable in the manhole to protect the bare cable in the pulling manhole. Back filling and dressing of manholes.
- g. Digging of pit of size 2 meter x 2 meter x 1.8 meter (depth) for construction of jointing chamber a 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-case jointing chamber of internal of 1.2 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 backfilling of jointing chamber with excavated soil.

- h. 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.
- i. Splicing of OF cable and making terminations at the exchanges/BTS containers as per norms of BSNL by fitting of OF cable through green pipe with proper protection and end to end testing of fibers.
- j. Conversion of O/H OFC cables (if any) to U/G OFC cables, as per instructions of the Work Order issuing authority.
- k. Documentation.

5. Collection and mapping of GPS data of network elements:

To collect all the relevant data for GIS mapping of joints, routes and specific landmarks on the route index diagram (RID). En-route Capturing of Existing OFC route alignment (Left or Right), OFC crossing points, Splicing Joints/ Manholes, Hand holes, etc. through GPS up to 7 decimal place and mapping the same on RID.

6. THE OUTSOURCED AGENCY'S OFFICE:

The Outsourced Agency's office shall be equipped with the following facilities

- ✓ Fax,
- ✓ Landline,
- ✓ E-mail facility with PC
- ✓ Mobile
- ✓ GPS coordinates of all offices & locations of team

The Outsourced Agency's office should be located at BA/SUB REGION headquarter/as directed by PGM/GM/TDM/TDE of Concerned BA/SUB REGION, however for operational convenience it is preferable that the Outsourced Agency may have multiple offices in route as per the area, falling under the jurisdiction of PGM/GM/TDM/TDE Concerned BA/SUB REGION.

7. SUBMISSION OF REPORTS:

The Outsourced Agency shall be responsible for submitting regular reports consisting of -

- a) Weekly report on activities.
- b) Weekly stock position report for the inventory issued by BSNL.
- c) Monthly report of faults
- d) Monthly report on spare fiber loss with OTDR
- e) Quarterly report on spare fiber loss using Power meter.
- f) The special reports consisting of Splice loss details, OTDR report of all fibers in a cable, total loss report for a section of the cable using Power meter.

8. DETAILS OF MANPOWER TO BE DEPLOYED FOR:

- a) The Outsourced Agency shall deploy Manpower for the following works:
 - a. Corrective Maintenance.
 - b. Scheduled and planned Maintenance.
 - c. Network Improvement initiatives
 - d. GPS Coordinates collection for network elements.
- b) BSNL shall be represented by the following Manpower for day to day interaction with the Outsourced Agency.
 - a. JTO/SDE/DE: Person responsible for a portion of the route/routes.

- b. PGM/GMTD/TDM/TDE:Final authority for the routes in his BA/sub region.
However, The BA (BusinessArea)Head will be the over all in-charge for ing any unresolved issues.
- c) Outsourced Agency has to furnish within 7 days, the information about their staff i.e. name, designation, contact mobile / landline phone numbers, office and residence address at various locations.
- d) BSNL shall give the names,designations, mobile /landline,e-mail,FAXNos.,of BSNL staff responsible for each section of OF routes to the Outsourced Agency before commencement of the contract; along with the details of the OFC Routes to be maintained by the OutsourcedAgency.
- e) **Supervisor:**

SI No	Item	Quantity
1	OFcable6F/12F/24F/48F/96F/288F	1Km
2	PLB pipe along with accessories	500m
3	Patchcords (5m,SC type)	6Nos.
4	PigTails	10 Nos.
5	Couplers for HDPE duct	10 Nos.
6	SimplePlug	10 Nos.
7	EndPlug	10 Nos.
8	Joint Closures(SJC/BJC)	8Nos.
9	Splicing sleeves	200 Nos.
10	RCC pipes–150mm dia(1m length)halfcut/full	10Nos. each
11	GIpipe–110mmdia.(6m)	2Nos.
12	Route Indicator	AsperAvail ability
13	JointIndicator	
14	Splice Chambers(Splittype)	

The Outsourced Agency 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 at least 3 years of 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.

9. MATERIALS:

- a) **Material to be issued by BSNL:**
- b) Following materials will be issued by BSNL for stocking with the Outsourced Agency as and imprest stock per FRT (Fault Repair Team), which will be replenished as per consumption. The Outsourced Agency shall be responsible for the safety of the materials. The

transportation from BSNL offices is to be arranged by the Outsourced Agency at his own cost. The maximum quantity of items that can be issued are as below:

Note : The Quantity of above material is indicative only.

- c) Outsourced Agency to maintain adequate (at least 50%) stock of above at his location and replenish items before depletion. For this purpose, Outsourced Agency shall send requirements by the 1st day of every month, in the prescribed format. BSNL will make the materials available to the Outsourced Agency within 7 days of receiving the request from the Outsourced Agency.
- d) For the materials issued, Outsourced Agency 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.
- e) In case BSNL is not able to supply the material, the Outsourced Agency is liable to supply the following essential materials from his own arrangement. The Outsourced Agency is also liable to keep stock of these quantities and ensure that it is readily available at all times during the period of contract & may or may not be asked to supply the same to BSNL. BSNL is not liable to pay any amount to the Outsourced Agency, in case the material is not used by BSNL.

The materials utilized from Outsourced Agency's arrangement from market will be replenished or cost will be reimbursed to the Outsourced Agency as per 90% of the approved rates of the same item in BSNL's Circle/Region Store Depot (CSD).

1	Supply of SJC/BJC
2	Supply of 4F Optic Cable
3	Supply of Upto 6 FT JB

10. Re-laying/ Fresh laying of OFC routes:-

Outsourced Agency is to relay the OFC route including laying of PLB pipes, pulling OFC and jointing of the cable for **UPTO MAXIMUM 1% OF THE ESTIMATED QUANTITY OF ROUTE LENGTH PER ANNUM** in order to maintain the QoS parameters on Work order basis. For ensuring this responsibility the required activities and their standards are given in table below:

SI.No	Description of activities for relaying/ fresh laying work of 1% OFC routes per annum as per standard specifications of BSNL.
1	Excavating trenches upto a depth of 165cms in urban area and back filling the excavated trenches after laying the PLB pipe with or without protection.
2	Laying of PLB Pipes /Coils, coupled with sockets and drawing 6mm PP rope.
3	Opening of Manholes, replacing 6 mm PP Rope by 8 mm PP Rope, Pulling of O.F. Cable of any size, Sealing of PLB pipes by Rubber Bushes in Manholes, providing RCC Split Pipes in Manhole/Back filling of Manholes.
4	Excavation by JCB in exceptional circumstances (hours)

5	Digging of Pit For Jointing Chamber, Supply & Fixing Of Pre-Cast RCC Chamber, Filling of RCC Chamber With Clean Sand, Placing Of Pre-Cast RCC slabs on RCC chamber, and backfilling of jointing pit.
6	Road/Rail Crossing through horizontal boring(HDD)method and inserting 65/40dia G.I.Pipes and Pushing PLB Pipes/coils in side and drawing 6mm PPrope.
7	RCC(15CM*15CM)Cement Concrete work on bridges/culverts wherever OFC exposed (RCC 1:2:4)
8	Laying of overhead OFC on poles including messenger wire with material excluding OFC.
9	Route indicator, fixing with RCC painting and sign writing
10	Route indicator Supply
11	Conversion of O/H OFC (if any) to U/G OFC, if required.
12	For every 200 meters of OFC construction, the progressive RKM, trench depth, off set., distance from landmark has to be updated and photos of the route incharge showing trench depth, offset & landmarks are required to be uploaded. For every 1 km of OFC construction, a video of the landmarks are required to be uploaded (Uploading of photo and video can be done only using Transnet mobile App)

- Note: Maintenance work for cable length less than 400 m. at a time will be awarded against this item. In case of exigencies, the work beyond 400m with the prior permission of concerned Business Head-can asked to be executed against this item.

11. INSPECTION AND TESTING:

- For inspection of the works carried out by the Outsourced Agency, BSNL will depute suitable officer.
- All results of inspection and test results will have to be recorded in the inspection reports, Proforma of which shall be approved by BSNL.

12. EXAMINATION OF WORK DURING PREVENTIVE MAINTENANCE:

The Outsourced Agency 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 Outsourced Agency's expenses. The work shall again be covered up at the Outsourced Agency's expenses.

- 13. Payment of ROW charges:** - Outsourced Agency shall be responsible for obtaining approval at his own cost from civic authorities like Municipal Corporations, Gram Panchayats, Development authorities, Electricity department, PWD, NHAI or any other concerned authority as required for carrying out the repair. However, the demand note towards right of way (ROW) or compensation charges, if any, shall be paid by BSNL.

- 14.** The route index drawings will be provided to the Outsourced Agency by BSNL during the currency of the maintenance contract once. However, the locations of the cable as reflected in the drawings/ details are indicative only and it is the responsibility of the Outsourced Agency to determine the actual location along the routes & handover updated documented details of the Network to the concerned BA/SUB REGION BSNL In charge

(DE/SDE/JTO) at the end of currency of the CONTRACT. At certain sections multiple OFC cables have been laid on the same trench/ other side of the road.

15. QoS parameters :

Sl. No.	Type of Maintenance	Parameter	Permissible range	Remarks
2	Corrective Maintenance	Splice loss per fiber	<0.1dB	For each splice
3	Corrective Maintenance	Mean Time to Repair (MTTR) OFC cuts	≤4 Hrs	MTTR Time starts from the time fault docket is booked by NMC/FMS. No penalty for the period justified by BSNL designated executive and his /her controlling officers for the reasons well beyond control, If the MTTR> 4 as the case may be.
4	Corrective Maintenance	Submission of diagram with marking of joint pits, fixing of route/joint indicators for updating of record	Within 3 days of the fault rectification	
5	OF Cable strengthening by Scheduled and Planned Maintenance Patch works	1. Trenching 2. Cable loss	1. Depth 165 cms 2. 0.3 dB/KM	Within a month from the date of work order

- a. Fault shall be intimated over telephone/mobile/Fax/Email of the Outsourced Agency. During office hours SDE/JTO concerned shall release signed WO copy for each fault. All the faults shall be booked in Transnet System by the route incharge. After attending the fault, opening time and closing time of each fault taken from Transnet shall be recorded in WO office copy.
- b. For faults attended beyond permissible range >8 Hrs, DE/AGM shall countersign all such cases in addition to SDE/JTO.
- c. For incentive to the Outsourced Agency Dec ertificate is must.
- d. Office of DE including the SDE and JTO concerned shall be fully responsible for accuracy of measurement of work. JTO, SDE, DE shall give Test Check on 100%, 50% and 10% of value of work done respectively.
- e. O/o GM/DGM of concerned BA/SUB REGION Head shall be responsible for payment accuracy and taxes component, arrived on the basis of measurements recorded by the DE/AGM concerned.

f. Penalty :-

Sl.No		Permissible range for	Amount of penalty	Remarks
1	Time to repair	Upto 4 Hrs	NIL	-
		>4 hrs upto 8 hrs	Rs 500/- per hr	-
		Beyond 8 Hrs	Additional 300/ per hr subjected to Rs 20000 per fault/cable. Each cable to be treated as separate cable	

2	Splice Loss per fiber	< 0.1 db	Rs 2000 per joint per occasion	In addition to penalty , agency is responsible to bring the loss within limit < 0.1 db within 7 (seven) days)
3	Repeat fault	<10% of total faults attended/ joints prepared per mont	Rs 500 per joint beyond 10% repeat fault	
4	Patrolling	Daily	Rs. 1000/- per day of absence of Patrolling	

16. Arrangement for communication and response mechanism/Establishment of control room/call centre.

- The BSNL have their system of OFC fault and alarm generation through network operating Centre (NOC) Raipur
- The call center will cater to all Transmission Nodal in charges of Bastar BAs of BSNL Chhattisgarh Circle including those in charge of OFC .
- Contractor should be provide contact number of controlroom, supervisory staff and their staff of control Room toTransmission/OFC Maintenance Team of Bastar BA.
- The intimation to the Outsourced Agency will be through SMS/Whatsapp/E-mail/fax/telephone.

17. RESOURCES TO BE DEPLOYED BY THE OUTSOURCED AGENCY

a) MANPOWER AND VEHICLE:

b)

- The Contractor shall provide sufficient numbers of manpower in FRT to ensure that MTTR and parameter of QoS are maintained. Contractor is advised to conduct patrolling in exceptional cases through his FRT so that BTS ouage / MTTR is maintained. The movement of FRT team shall be monitored by BSNL App & IT System.
- Contractor has to provide FRTs exclusively for BSNL. There will be no relaxation in deployment of number of FRTs.

An FRT Should have offollowing logistics and manpower:

- 1No.of Supervisor.
- 1No.of Splicing Engineer.
- 1No.Splicing Assistant per splicing vehicle.
- Adequate no of helpers/ laborers' or more for trenching, laying, preparation of jointpits,closing and reinstatement.
- Suitable vehicle/ vehicles (BSNL's Logo and Advertisement should be displayed ineveryvehicle).
- The intending Outsourced Agency must own/lease JCB machine either in his name orinthe name of firm- **Deleted**
- The intending Outsourced Agency must have minimum Teams with tools and testers for the maintenance work like splicing machine, OTDR,power source and power meter etc.with hardtop Utility vehicle.

Note:In case the manpower specified above is not adequate,the Outsourced Agency may engage on the higher side subject to minimum of above.

LIST OF EQUIPMENTS:

The following items and Equipment shall be arranged by the Outsourced Agency at his own cost per FRT

- **Tool Kit** consisting of:-

SINo	NAME OF TOOLS	QUANTITY
1	Masonry Tool Kit	As required
2	Helmets, Gloves, Safety Shoes, Gum Boots	As required
3	Spades, Shovels, Pick-axe, Crow-bar etc.	As required
4	Emergency lights/Torch/Night lamps with capacity suitable for splicing work at night	As required
5	1KV ADG set (Portable)	1 No.
6	Digital Camera (with date and stamp facility)	1 No.
7	Small Canvas Tent	1 No.
8	Measuring tape -5m/10m,	1 No.
9	Barricading tape (while executing OF cable restoration works)	Adequate lengths
10	Display boards, night warning lamps (while executing OF cable restoration works)	Adequate nos.

- **Testing Equipment consists of:**

S.N	Item	Quantity
1	OTDR	1 No.
2	Power Meter	1 No.
3	Power source	1 No.
4	Splicing Machine	1 No.
5	Optical Fiber Tool Kit (including Sheath Cutter, Stripper, Cleaver, Ceramic Scissor etc.)	1 Set
6	Rodometer	1 No.
7	GPSTool	1 No.

Note 1: - Any other items other than those listed above, if required for execution of the work should be arranged by the Outsourced Agency.

Note 2: Outsourced Agency to work in any other BA/SUB REGION of Circle/ Region at the rate approved for that BA/SUB REGION in case of any exigency.

Note 3:

- a. Routes have to be taken over and maintained "as it is" basis i.e. O/H or U/G.
- b. There will be no limit on relaying in case of damage during currency of the contract i.e. any Amount of O/H or U/G has to be redone the way it was before damage i.e. O/H to O/H and U/G to U/G .
- c. However up to 1% of the handed over OFC length in the cluster per annum is to be converted from overhead to underground or rehabilitation of damaged OFC by Bidder during the tender period. Beyond 1% a separate mechanism (tender) will be used. For every 200 meters of OFC construction, the progressive RKM, trench depth, off set., distance from landmark has to be updated and photos of the route incharge showing trench depth, offset & landmarks are required to be uploaded. For every 1 km of OFC construction, a video of the landmarks are required to be uploaded (Uploading of photo and video can be done only using Transnet mobile App)

SECTION -3 PART-B

Technical Specification/Requirements

1. INSTALLATION OF JOINT CLOSURE & SPLICING OF OFC:-

Fusion splicing is used for splicing the fiber in BSNL network. This is accomplished by applying localized heating (i.e. by electric arc or flame) at the interface between two butted, pre-aligned fiber ends, causing them to soften and fuse together. For this purpose fusion splicing machine is used. There are various types of joint closures in use for BSNL, namely SJC (Straight Joint Closure) and BJC (Branch Joint Closure). The SJCs are predominantly used along the cable routes, and the BJCs are used where ever, the fiber toppings and branching of cable is required. The Procedure for assembly of joint closures is generally supplied by the manufacturers along with the joint closures. However the general procedure for assembly of joint closure is described below:

Jointing of Optical fiber Cable

- a) The manufacturer's manual contains the following:
- b) Material inside joint closure kit.
- c) Installation tools required.
- d) Detailed procedure for cable jointing.
- e) Procedure for re-opening the closure.

However, generally, the following steps are involved for jointing of the cable.

- a) Preparation of cable for jointing.
- b) Stripping/cutting the cable.
- c) Preparation of cable and joint closure for splicing.
- d) Fiber splicing.
- e) Organizing fibers and finishing joints.
- f) Sealing of joint closure end.
- g) Placing joint in pit.
- h) Marking of cable end.
- i) Marking of fibers in tray.

2. PREPARATION OF CABLE FOR JOINTING:-

During the installation, a minimum of 10 meters of cable of each end is coiled in the jointing pit to provide for jointing to be carried out at convenient location as well as spare length to be available for future use in case of failures.

The pit size must be chosen carefully to ensure the length of the way on which joint is mounted is greater than closure length plus twice the minimum bending radius of the cable. A pit length of 1.2 meter is sufficient for most of the cable and joint closures. Bracket to support the cable coil are also fixed on the wall of the pit.

The cable is then coiled on to the pit wall in the same position as required after the joint is complete. The marking is done on all the loops so that it will be easier to install it later.

The distance from the last centre to the end of the cable must be at least 1.8 meter. This is being the minimum to be stripped for preparation of joint.

Sufficient cable at each end up to the jointing vehicle/enclosure is then uncoiled from the pit for jointing.

3. STRIPPING/CUTTING THE CABLE:-

The cable is stripped of their outer and inner sheath with each sheath, staggered

approximately 10mm from the one above it.

Proper care must be taken when removing the inner sheath, to ensure the fibers are not scratched or cut with the stripping knife or tool. To prevent this, it is best to only score the inner sheath twice on opposite sides of the cable, rather than cut completely through it. The two scores marking on either side of the cable are then stripped of the inner sheath by hand quite easily.

The fibers are then removed from cable one by one and each fiber is cleaned individually using isopropyl solution to remove the jelly.

4. PREPARATION OF CABLE JOINT CLOSURE FOR SPLICING:-

The type of preparation work performed on the cable prior to splicing differs on the type of joint closure and fiber organizer used. However, the following steps are usually common:

The strength member of each cable is to be fixed to the central frame of the joint.

The sealing compound or heat shrink sleeve is applied to the cables and closure or prepared for application after splicing is complete.

The fibers are protected (usually with plastic tubing) in their run from the cable core to the fiber organizer trays (particularly if cable construction is slotted core type). Two Nos of plastic tie shall be used to hold fiber tube with splicing tray.

Tags which identify the fibers numbers are attached at suitable locations on the fibers.

Splice protectors are slipped over each fiber in readiness for splicing over the bare fiber after splicing.

5. FIBER SPLICING TRIPPING AND CLEANING OF FIBER:

Prior to splicing each fiber must have approximately 50mm of its primary protective U.V. cured coating removed, using fiber stripper which are manufactured to fine tolerances and only score the coating without contacting the glass fiber.

The bare fiber is then wiped with lint free tissue do used with ethyl alcohol.

Cleaning of the fiber is then performed to obtain as close as possible to a perfect 90 face on the fiber.

6. FUSION SPLICING OF THE FIBER:-

Some of the general steps with full automatic microprocessor controlled splicing machine are as under:

Wash hands thoroughly prior to connecting this procedure.

Place the bare fiber inside "V" groove of the splicing

machine by opening clamp handle such that the end of fiber is app. 1mm. over the end of the "V" groove towards the electrodes.

Repeat the same procedure for other fiber, however first insert heat shrink splice protector.

Press the start button on the splice controller.

The machine will pre-fuse, set align both in "X" and "Y" direction and then finally fuse the fiber.

Inspect the splice on monitor if provided on the fusion splicing machine and assure no nicking, bulging is there and cores appear to be adequately aligned if the splice does not visually look good repeat the above procedure.

Slide the heat shrink protector over the splice and place in tube heater. Heat is complete when soft inner layer is seen to be "oozing" out of the ends of the outer layer of the protector.

Repeat the same procedure for all the other fibers.

7. ORGANISING FIBER AND FINISHING JOINTS:-

After each fiber is spliced, the heat shrink protection sleeve must be slipped over the bare fiber before any handling of fiber takes place, as uncoated fibers are very brittle and can not withstand small radius ends without breaking.

The fiber is then organized in to it stray by coiling the fibers on each side of the protection sleeve using the full tray side to ensure the maximum radius possible for fiber coils.

The tray is placed in the position.

OTDR reading taken for all splices in this organized state and recorded on the test sheet to confirm that all fibers attenuation are within 0.1 db per splice. This OTDR test confirms fibers were not subjected to excessive stress during the organizing process.

The splice loss measurement on each fiber is also to be taken from the terminal station using powermeter to determine the splice loss of each fiber < 0.1 db.

Only after satisfactory confirmation of the splice loss within limits i.e. 0.1db using powermeter, the joint pit is to be closed with proper sealing,

8. PLACING JOINT IN PIT:-

Joint is taken out from the vehicle and placed on the tarpaulin provided near the pit.

The cable is laid on the ground; coil the cable such that pen mark previously placed on the cable line up. Tape these loops together at the top of the coil.

The joint can now be permanently closed and sealed by heating heat shrinkable sleeve etc.

If required for attending to faults etc., manufacturers supply special kits for opening of the joint and the steps to be followed. However the general steps are as under:

Using suitable knife cut heatshrink sleeve longitudinally along its entire length.

Do not damage the smaller heat shrunk sleeve on the ends of the joint.

Apply heat to the cut sleeve until it begins to separate.

Gently remove the cut sleeve from the joint. Now the joint can be opened.

Protective sleeve/cover can be removed for attending to faults etc.

9. EXCAVATION AND BACKFILLING OF TRENCHES FOR ATTENDING TO FAULTS:

It is recommended that excavation of trench be done manually, since use of mechanical devices like JCB likely to damage existing cables other utility pipes etc.

The excavation shall include excavation of trial holes clearing bushes and roots of trees along the trenches.

During excavation of the trenches, the earth shall be thrown by the side of the trenches. Complete excavated earth shall be back filled in the trench after laying the cable and well rammed.

**Requirements of Quantity: Route Work (Route List are Enclosed
at Annexure-I) TABLE-1**

BTS SLA work

S.No	Name of BA/OA	Section No	Cluster/ Section Name	Name of District	Nos of BTS Site				
					Total BTS sites	BSNL Sites	NoN BSNL Sites	IP sites	
1	Bastar	A	Jagdalpur	Jagdalpur District	96	11	39	46	
2		B	Dantewada, Bijapur & Sukma	Dantewada District	52	4	12	9	
				Bijapur District		3	6	1	
				Sukma District		4	10	3	
3		C	Kondagaon & Narayanpur	Kondagaon District	64	6	21	25	
				Narayanpur District		1	11	0	
4		D	Kanker & Bhanupratappur	Kanker District	85	6	38	4	
						5	25	7	
						297	40	162	95

(List enclosed- Annexure 1)

**Summary of OFC routes which are covered for Mainetnace work on Need/
Fault basis**

Section No	Name of Section	OFC Route(Km)
A	Jagdalpur	352
B	Dantewada Bijapur & Sukma	402
C	Kondagaon & Narayanpur,	313
D	Bhanupratappur & Kanker	435

(List enclosed- Annexure 2)

ANNEXURE-1:DETAILS OF THE BTS Site

S.No.	Site name	Type	Combo Type	District	SDCA/ Division	Sub	Service Required
1	BSBSBKV024_RB_Karpawand	BSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
2	BSBSBKV030_RI_Pahurbeli	IP	2G+3G	Bastar	Jagdalpur		BTS only
3	BSBSBKV032_RI_Magnar	IP	2G+3G	Bastar	Jagdalpur		BTS only
4	BSBSBKV035_RI_Satosa	IP	2G+3G	Bastar	Jagdalpur		BTS only
5	BSBSBKV036_RN_Chhindgaon	NBSNL	2G	Bastar	Jagdalpur		BTS+Infra
6	BSBSBKV037_RN_Jaibel	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
7	BSBSBKV042_RN_SandKamari	NBSNL	2G	Bastar	Jagdalpur		BTS+Infra
8	BSBSBAS002_RB_Bhaanpuri	BSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
9	BSBSBAS003_RB_Kalarthari	BSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
10	BSBSBAS005_RB_Sonarpal	BSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
11	BSBSBAS009_RI_Madhota	IP	2G+3G	Bastar	Jagdalpur		BTS only
12	BSBSBAS012_RI_Seoni	IP	2G+3G	Bastar	Jagdalpur		BTS only
13	BSBSBAS016_RN_Bastar	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
14	BSBSBAS018_UI_Balenga	IP	2G+3G	Bastar	Jagdalpur		BTS only
15	BSBSBAS019_RN_Mundagaon	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
16	BSBSJGP119_RN_Farsaguda	NBSNL	2G	Bastar	Jagdalpur		BTS+Infra
17	BSBSBTN046_RB_Kilepal	BSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
18	BSBSBTN047_RI_Badekilepal	IP	2G+3G	Bastar	Jagdalpur		BTS only
19	BSBSBTN048_RI_Mutanpal	IP	2G+3G	Bastar	Jagdalpur		BTS only
20	BSBSBTN049_RI_BadeKakloor	IP	2G+3G	Bastar	Jagdalpur		BTS only
21	BSBSBTN050_RN_Bastanar	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
22	BSBSBTN051_RN_KumharSadra	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
23	BSBSDRB001_RI_Tirthum	IP	2G+3G	Bastar	Jagdalpur		BTS only
24	BSBSDRB052_RB_Darba	BSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
25	BSBSDRB053_RI_Chhindwada	IP	2G+3G	Bastar	Jagdalpur		BTS only
26	BSBSDRB054_RI_Chitapur	IP	2G	Bastar	Jagdalpur		BTS only
27	BSBSDRB055_RI_MawaliPadar	IP	2G+3G	Bastar	Jagdalpur		BTS only
28	BSBSDRB056_RN_Dilmili	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
29	BSBSDRB057_RN_Negantar	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
30	BSBSDRB058_RN_Tirathgarh	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
31	BSBSJGP074_RN_Dhimrapal	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
32	BSBSJGP098_UN_Medical_College	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
33	BSBSJGP122_UN_Medical_College_Dimarapal_Micro_BTS	NBSNL	3G Micro	Bastar	Jagdalpur		BTS+Infra
34	BSBSJGP123_UN_Dimarapal_Hospital_Micro_BTS	NBSNL	3G Micro	Bastar	Jagdalpur		BTS+Infra
35	BSBSTKP113_RB_Tokapal	BSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
36	BSBSTKP114_RI_Raikot	IP	2G+3G	Bastar	Jagdalpur		BTS only
37	BSBSTKP116_RI_Rajur	IP	2G+3G	Bastar	Jagdalpur		BTS only
38	BSBSTKP117_RI_Keshloor	IP	2G+3G	Bastar	Jagdalpur		BTS only
39	BSBSBKV043_RN_Tarapur	NBSNL	2G	Bastar	Jagdalpur		BTS+Infra
40	BSBSJGP045_RI_Badebodol	IP	2G	Bastar	Jagdalpur		BTS only
41	BSBSJGP069_RI_Kurandi	IP	2G+3G	Bastar	Jagdalpur		BTS only
42	BSBSJGP101_UI_Kalcha	IP	2G+3G	Bastar	Jagdalpur		BTS only
43	BSBSJGP104_RN_Nangur	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
44	BSBSJGP106_RN_Jamawada	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
45	BSBSJGP107_RI_Niyandar	IP	2G+3G	Bastar	Jagdalpur		BTS only
46	BSBSJGP108_RI_Sargud	IP	2G+3G	Bastar	Jagdalpur		BTS only
47	BSBSBKV028_RI_Bazawand	IP	2G+3G	Bastar	Jagdalpur		BTS only
48	BSBSBKV034_RI_Talnar	IP	2G	Bastar	Jagdalpur		BTS only
49	BSBSJGP063_RB_Nagarnaar	NBSNL	2G+3G	Bastar	Jagdalpur		BTS+Infra
50	BSBSJGP068_RI_Madpal	IP	2G+3G	Bastar	Jagdalpur		BTS only

51	BSBSJGP070_RI_Chokhawada	IP	2G+3G	Bastar	Jagdalpur	BTS only
52	BSBSJGP099_UN_NMDCcolony	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
53	BSBSJGP100_UN_NMDC new colony	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
54	BSBSJGP102_RN_Karanpur	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
55	BSBSJGP103_RN_Markel	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
56	BSBSJGP119_UN_NMDC Plant Tower1	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
57	BSBSJGP120_UN_NMDC_Plant_Tower_2	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
58	BSBSBAS004_RB_Kesharpal	BSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
59	BSBSBAS006_RI_Kumhali	IP	2G+3G	Bastar	Jagdalpur	BTS only
60	BSBSBAS007_RI_Ichhapur	IP	2G	Bastar	Jagdalpur	BTS only
61	BSBSBAS010_RI_Sorgaon	IP	2G+3G	Bastar	Jagdalpur	BTS only
62	BSBSBAS011_RI_Nandpura	IP	2G	Bastar	Jagdalpur	BTS only
63	BSBSBAS015_RI_BaghMohlai	IP	2G	Bastar	Jagdalpur	BTS only
64	BSBSBAS020_RN_Turpura	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
65	BSBSBKV021_RB_Bakawan	BSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
66	BSBSBKV025_RI_Dasapal	IP	2G+3G	Bastar	Jagdalpur	BTS only
67	BSBSBKV029_RI_ChhteDeoda	IP	2G+3G	Bastar	Jagdalpur	BTS only
68	BSBSBKV031_RI_Borigaon	IP	2G+3G	Bastar	Jagdalpur	BTS only
69	BSBSBKV033_RI_Gatenga	IP	2G+3G	Bastar	Jagdalpur	BTS only
70	BSBSBKV022_RB_Girola	BSNL	2G	Bastar	Jagdalpur	BTS+Infra
71	BSBSBKV038_RN_Jaitgiri	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
72	BSBSBKV040_RN_Kinjoli	NBSNL	2G	Bastar	Jagdalpur	BTS+Infra
73	BSBSBKV041_RN_Rajnagar	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
74	GIR002_GirolaMicro	NBSNL	2G	Bastar	Jagdalpur	BTS+Infra
75	BSBSBKV026_RI_Ulnar	IP	2G	Bastar	Jagdalpur	BTS only
76	BSBSBKV027_RI_Malgaon	IP	2G+3G	Bastar	Jagdalpur	BTS only
77	BSBSBKV039_RN_Kachnar	NBSNL	2G	Bastar	Jagdalpur	BTS+Infra
78	BSBSJGP044_UN_Kalipur	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
79	BSBSJGP071_RI_Kudalgaon	IP	2G+3G	Bastar	Jagdalpur	BTS only
80	BSBSJGP073_UI_Ghatpadmoor	IP	2G+3G	Bastar	Jagdalpur	BTS only
81	BSBSJGP096_UN_Kumrawand	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
82	BSBSBAS008_RI_Badani	IP	2G+3G	Bastar	Jagdalpur	BTS only
83	BSBSBAS013_RI_Deurgaon	IP	2G+3G	Bastar	Jagdalpur	BTS only
84	BSBSBAS014_RI_Ratenga	IP	2G+3G	Bastar	Jagdalpur	BTS only
85	BSBSBAS017_RN_Chitrakot	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
86	BSBSLND109_RB_Lohandiguda	BSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
87	BSBSLND110_RI_Gadiya	IP	2G+3G	Bastar	Jagdalpur	BTS only
88	BSBSLND111_RI_Matnar	IP	2G+3G	Bastar	Jagdalpur	BTS only
89	BSBSLND112_RI_Airmur	IP	2G+3G	Bastar	Jagdalpur	BTS only
90	BSBSTKP115_RI_Korenga	IP	2G+3G	Bastar	Jagdalpur	BTS only
91	BSBSTKP118_RI_ChhaparBhanpuri	IP	2G+3G	Bastar	Jagdalpur	BTS only
92	BSBSJGP083_UN_Cold_Storage	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
93	BSBSJGP081_UN_PG_College	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
94	BSBSBKV023_UB_Aasna	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
95	BSBSJGP059_UB_Adawal	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
96	BSBSJGP094_UN_Karkapal	NBSNL	2G+3G	Bastar	Jagdalpur	BTS+Infra
97	BSBJBHG001_RB_Bhairamgarh	NBSNL	2G+3G	Bijapur	Bijapur	BTS+Infra
98	BSBJBHG002_RI_Bhairamgarh	IP	2G+3G	Bijapur	Bijapur	BTS only
99	BSBJBHG003_RN_Jangla	NBSNL	2G+3G	Bijapur	Bijapur	BTS+Infra
100	BSBJBHG004_UN_Nimed_Add(dugoli)	NBSNL	2G+3G	Bijapur	Bijapur	BTS+Infra
101	BSBJBHG005_RN_Nelesnar	NBSNL	2G+3G	Bijapur	Bijapur	BTS+Infra
102	BSBJBI017_RN_Nimed	NBSNL	2G+3G	Bijapur	Bijapur	BTS+Infra

103	BSBJBPL018_RB_Bhopalpattnam	BSNL	2G+3G	Bijapur	Bijapur	BTS+Infra
104	BSBJBPL019_RB_Madded	BSNL	2G+3G	Bijapur	Bijapur	BTS+Infra
105	BSBJBPL020_RN_Tahsil_Office	NBSNL	2G+3G	Bijapur	Bijapur	BTS+Infra
106	BSBJUSR021_UB_Awapalli	BSNL	2G+3G	Bijapur	Bijapur	BTS+Infra
107	BSDWDWD002_RB_Bhansi	BSNL	2G+3G	Dantewada	Bacheli	BTS+Infra
108	BSDWDWD005_RI_Gamawada	IP	2G+3G	Dantewada	Dantewada	BTS only
109	BSDWDWD006_RI_Metapal	IP	2G+3G	Dantewada	Dantewada	BTS only
110	BSDWDWD007_RI_Pondum	IP	2G+3G	Dantewada	Dantewada	BTS only
111	BSDWDWD008_RI_Ganjanar	IP	2G+3G	Dantewada	Dantewada	BTS only
112	BSDWDWD014_UN_Bacheli_AkashNgr	NBSNL	2G+3G	Dantewada	Bacheli	BTS+Infra
113	BSDWDWD016_RN_Barsoor_Saat_Dhara	NBSNL	2G+3G	Dantewada	Dantewada	BTS+Infra
114	BSDWDWD022_UN_JAWANGA	NBSNL	2G+3G	Dantewada	Dantewada	BTS+Infra
115	BSDWGDM023_RB_Barsoor	BSNL	2G+3G	Dantewada	Dantewada	BTS+Infra
116	BSDWGDM024_RB_Gidam	BSNL	2G+3G	Dantewada	Dantewada	BTS+Infra
117	BSDWGDM025_UI_Barsoor_Addl	IP	2G+3G	Dantewada	Dantewada	BTS only
118	BSDWGDM026_RI_Samlur	IP	2G+3G	Dantewada	Dantewada	BTS only
119	BSDWGDM027_UI_ChinaKarli	IP	2G+3G	Dantewada	Dantewada	BTS only
120	BSDWGDM029_RI_Ronje	IP	2G+3G	Dantewada	Dantewada	BTS only
121	BSDWGDM030_RN_Bus_Stand	NBSNL	2G+3G	Dantewada	Dantewada	BTS+Infra
122	BSDWGDM031_UN_BadeTumnar	NBSNL	2G+3G	Dantewada	Dantewada	BTS+Infra
123	BSDWKKK032_UB_Kirandul_Exch	NBSNL	2G+3G	Dantewada	Bacheli	BTS+Infra
124	BSDWKKK033_RB_Nakulnar	BSNL	2G+3G	Dantewada	Bacheli	BTS+Infra
125	BSDWKKK034_RI_Aranpur	IP	2G+3G	Dantewada	Dantewada	BTS only
126	BSDWKKK036_UN_Bangali_Camp	NBSNL	2G+3G	Dantewada	Bacheli	BTS+Infra
127	BSDWKKK037_UN_GandhiNGR	NBSNL	2G+3G	Dantewada	Bacheli	BTS+Infra
128	BSDWKKK038_UN_Eleven_C	NBSNL	2G+3G	Dantewada	Bacheli	BTS+Infra
129	BSDWKKK039_UN_MangalBhawan	NBSNL	2G+3G	Dantewada	Bacheli	BTS+Infra
130	BSDWTKK040_RB_Kateklyan	NBSNL	2G+3G	Dantewada	Dantewada	BTS+Infra
131	BSDWDWD015_RN_Balood	NBSNL	2G+3G	Dantewada	Dantewada	BTS+Infra
132	BSKKKKR054_RI_BarDewari	IP	2G+3G	Kanker	Kanker	BTS only
133	BSKKKKR055_RI_Mode	IP	2G+3G	Kanker	Kanker	BTS only
134	BSKKKKR058_RN_Aturgaon	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
135	BSKKKKR074_RN_Puliyara	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
136	BSKKKKR075_RN_Vyaskongera	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
137	BSKKNRH079_RB_Narharpur	BSNL	2G+3G	Kanker	Kanker	BTS+Infra
138	BSKKNRH080_RB_Sarona	BSNL	2G+3G	Kanker	Kanker	BTS+Infra
139	BSKKNRH081_RN_Amoda	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
140	BSKKNRH082_RN_Choriya	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
141	BSKKNRH083_RN_Deogaon	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
142	BSKKNRH084_RN_Kumankhar	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
143	BSKKNRH085_RN_Sarwandi	NBSNL	2G	Kanker	Kanker	BTS+Infra
144	BSKKNRH086_RU_Markatola (Largaon)	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
145	BSKKNRH087_RU_Madabharri	NBSNL	2G	Kanker	Kanker	BTS+Infra
146	BSKKNRH088_RU_Saranda	NBSNL	2G	Kanker	Kanker	BTS+Infra
147	BSKKANT009_RU_Pidhapal	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
148	BSKKBNP012_RB_Korar	BSNL	2G+3G	Kanker	Kanker	BTS+Infra
149	BSKKCRM037_RN_Kotara	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
150	BSKKCRM039_RN_Puri	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra

151	BSKRCRM041_RU_Bagdungavi (Bagh dongri)	NBSNL	2G	Kanker	Kanker	BTS+Infra
152	BSKRCRM042_RU_Bhotha	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
153	BSKRCRM046_RU_Kishanpuri	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
154	BSKRCRM059_RN_Dhaneli	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
155	BSKRCRM070_RN_KapsiKorar	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
156	BSKRCRM071_RN_Kodagaon	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
157	BSKRCRM073_RN_Potgaon	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
158	BSKRCRM076_RU_Albeda	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
159	BSKRCRM077_RU_Bharodih	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
160	BSKRCRM004_RN_Amabeda	NBSNL	2G+3G	Kanker	Kondagaon	BTS+Infra
161	BSKRCRM027_RB_Charama	BSNL	2G+3G	Kanker	Kanker	BTS+Infra
162	BSKRCRM028_RB_Charama add1	IP	2G+3G	Kanker	Kanker	BTS only
163	BSKRCRM029_RB_Halba	BSNL	2G+3G	Kanker	Kanker	BTS+Infra
164	BSKRCRM030_RB_Lakhanpuri	BSNL	2G+3G	Kanker	Kanker	BTS+Infra
165	BSKRCRM031_RI_Haradula	IP	2G+3G	Kanker	Kanker	BTS only
166	BSKRCRM032_RN_Babukohka	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
167	BSKRCRM033_RN_Chinauri	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
168	BSKRCRM034_RN_Nakapara	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
169	BSKRCRM035_RN_JaisaKarra	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
170	BSKRCRM036_RN_Jepura	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
171	BSKRCRM038_RN_Lilejhar	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
172	BSKRCRM040_RN_Udkuda	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
173	BSKRCRM043_RU_Kahadgondi	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
174	BSKRCRM044_RU_Karatha (Khartha)	NBSNL	2G	Kanker	Kanker	BTS+Infra
175	BSKRCRM045_RU_Khaikheda	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
176	BSKRCRM001_RB_Antagarh	BSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
177	BSKRCRM002_RI_Pondgaon_Addl	IP	2G+3G	Kanker	Bhanupratappur	BTS only
178	BSKRCRM003_RI_Antagarh	IP	2G+3G	Kanker	Bhanupratappur	BTS only
179	BSKRCRM005_UN_Jaal_Top_BSF_Camp	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
180	BSKRCRM006_UN_Kaleshwar_BSF_Camp	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
181	BSKRCRM007_RN_Tadoki	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
182	BSKRCRM008_RN_Raoghat	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
183	BSKRCRM011_UB_Bhondiya	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
184	BSKRCRM013_UB_Salegaon	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
185	BSKRCRM014_RI_Pewari	IP	2G+3G	Kanker	Bhanupratappur	BTS only
186	BSKRCRM016_RN_Baijanpuri	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
187	BSKRCRM017_RN_Bhanbeda	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
188	BSKRCRM020_RN_Birkondal	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
189	BSKRCRM021_RN_Chichagaon	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
190	BSKRCRM022_RN_Hetarkasa	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
191	BSKRCRM023_RN_Kewati	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
192	BSKRCRM024_RN_Kurri	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
193	BSKRCRM047_RB_Durg_Kondal	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
194	BSKRCRM048_RI_Bhuski	IP	2G+3G	Kanker	Bhanupratappur	BTS only

195	BSKKDUK049_RN_Chemal	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
196	BSKKKKR102_UN_Damkasa_Additional	NBSNL	3G	Kanker	Bhanupratappur	BTS+Infra
197	BSKKKKR103_RN_Sarangipal_BSF	NBSNL	3G	Kanker	Bhanupratappur	BTS+Infra
198	BSKKPKJ089_RB_Baande	BSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
199	BSKKPKJ090_RB_Kapsi	BSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
200	BSKKPKJ091_RB_Koyalibeda	BSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
201	BSKKPKJ092_RB_Pakhanjur	BSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
202	BSKKPKJ093_RB_Pakhanjur add 1	IP	2G+3G	Kanker	Bhanupratappur	BTS only
203	BSKKPKJ094_UI_Pakhanjur PV 41	IP	2G+3G	Kanker	Bhanupratappur	BTS only
204	BSKKPKJ095_UI_Pakhanjur_Add3 (Kali Mandir Road)	IP	2G+3G	Kanker	Bhanupratappur	BTS only
205	BSKKPKJ096_RN_Badgaon	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
206	BSKKPKJ097_RN_Bandecolony	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
207	BSKKPKJ098_RN_Kapsi-2	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
208	BSKKPKJ099_RN_Thanapara	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
209	BSKKPKJ100_RN_Awaspara	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
210	BSKKPKJ101_RN_NewMarket	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
211	BSKKPKJ104_RN_Bodagaon_Camp	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
212	BSKKNP025_RN_Sambalpur_Knkr	NBSNL	2G+3G	Kanker	Bhanupratappur	BTS+Infra
213	BSKKKKR060_RN_Ichchhapur	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
214	BSKKKKR078_RU_Mathwada_Lal	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
215	BSKKKKR072_RN_Makdi	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
216	BSKKKKR050_RB_Bewarti	NBSNL	2G+3G	Kanker	Kanker	BTS+Infra
217	BSKGRG013_RI_Kabonga	IP	2G	Kondagaon	Kondagaon	BTS only
218	BSKGGKG019_RB_Baniyagaon	BSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
219	BSKGGKG022_RI_Mardapal	IP	2G+3G	Kondagaon	Kondagaon	BTS only
220	BSKGGKG025_RI_Joba	IP	2G+3G	Kondagaon	Kondagaon	BTS only
221	BSKGGKG027_RI_Golawand	IP	2G+3G	Kondagaon	Kondagaon	BTS only
222	BSKGGKG028_RI_Malakot	IP	2G+3G	Kondagaon	Kondagaon	BTS only
223	BSKGGKG029_RI_Makdi	IP	2G	Kondagaon	Kondagaon	BTS only
224	BSKGGKG030_RI_Sukurpal	IP	2G+3G	Kondagaon	Kondagaon	BTS only
225	BSKGGKG033_RN_Bamhani	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
226	BSKGGKG042_RN_Sambalpur_Kndgn	NBSNL	2G	Kondagaon	Kondagaon	BTS+Infra
227	BSKGGKG060_UN_Bunagaon	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
228	BSKGMKD056_RI_Sonabera	IP	2G+3G	Kondagaon	Kondagaon	BTS only
229	BSKGMKD057_RI_Kerwahi	IP	2G	Kondagaon	Kondagaon	BTS only
230	BSKGRG010_RB_Badekhanera	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
231	BSKGGKG020_RB_Chipawand	BSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
232	BSKGGKG024_RI_BadeBendri	IP	2G+3G	Kondagaon	Kondagaon	BTS only
233	BSKGMKD052_RB_Bijapur_K	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
234	BSKGMKD053_RB_Makdi_Kndgn	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
235	BSKGMKD055_RB_Shaampur	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
236	BSKGMKD058_RI_Hirapur	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
237	BSKGMKD059_RN_Palli	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
238	BSKGGKS048_RI_Khalemurvend	IP	2G+3G	Kondagaon	Kanker	BTS only
239	BSKGGKG035_RN_Ghodagaon	NBSNL	2G+3G	Kondagaon	Jagdapur	BTS+Infra

240	BSKGKSK043_RB_Bahigaon	BSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
241	BSKGKSK044_RB_Keshkal	BSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
242	BSKGKSK045_RI_Arandi	IP	2G+3G	Kondagaon	Kondagaon	BTS only
243	BSKGKSK046_RI_Dhanora	IP	2G+3G	Kondagaon	Kondagaon	BTS only
244	BSKGKSK047_RI_Singhanpur	IP	2G+3G	Kondagaon	Kondagaon	BTS only
245	BSKGKSK049_RI_Keshkal	IP	2G+3G	Kondagaon	Kondagaon	BTS only
246	BSKGKSK050_RN_Batrali	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
247	BSKGKSK051_RN_Surdonger	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
248	BSKGBRJ001_RB_Vishrampur	BSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
249	BSKGBRJ002_RI_Korgaon	IP	2G+3G	Kondagaon	Kondagaon	BTS only
250	BSKGBRJ003_RI_Lihagaon	IP	2G+3G	Kondagaon	Kondagaon	BTS only
251	BSKGBRJ004_RI_Badebattar	IP	2G+3G	Kondagaon	Kondagaon	BTS only
252	BSKGBRJ005_RI_Banskot	IP	2G	Kondagaon	Kondagaon	BTS only
253	BSKGBRJ006_RI_Salna	IP	2G+3G	Kondagaon	Kondagaon	BTS only
254	BSKGBRJ007_RI_Kopra	IP	2G+3G	Kondagaon	Kondagaon	BTS only
255	BSKGBRJ008_RI_BadeRajpur	IP	2G+3G	Kondagaon	Kondagaon	BTS only
256	BSKGKDG023_RI_Masaura	IP	2G+3G	Kondagaon	Kondagaon	BTS only
257	BSKGKDG026_RI_Sonabal	IP	2G	Kondagaon	Kondagaon	BTS only
258	BSKGBRJ009_RN_Bade_Dongar	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
259	BSKGFRG011_RB_Farsahgaon	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
260	BSKGFRG012_RB_Lanjoda	BSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
261	BSKGFRG014_RI_Bhandar_Seoni	IP	2G+3G	Kondagaon	Kondagaon	BTS only
262	BSKGFRG015_RN_Alor	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
263	BSKGFRG016_RN_Borgaon	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
264	BSKGFRG017_RN_Jugnikalar	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
265	BSKGFRG018_RN_Manjihitgaon	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
266	BSKGMKD054_RB_Radhna	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
267	BSKGKDG034_RN_Chikalpatti	NBSNL	2G+3G	Kondagaon	Kondagaon	BTS+Infra
268	RPDMNGR040_RB_Borai_NG	NBSNL	2G	Kondagaon	Kondagaon	BTS+Infra
269	BSNYNRP005_RN_Benur	NBSNL	2G+3G	Narayanpur	Narayanpur	BTS+Infra
270	BSNYNRP006_RN_Nalwad	NBSNL	2G+3G	Narayanpur	Narayanpur	BTS+Infra
271	BSNYNRP012_UN_Deogaon	NBSNL	2G+3G	Narayanpur	Narayanpur	BTS+Infra
272	BSNYNRP013_RN_Orchha	NBSNL	2G+3G	Narayanpur	Narayanpur	BTS+Infra
273	BSNYNRP014_UN_Chhotedongar-PS	NBSNL	2G+3G	Narayanpur	Narayanpur	BTS+Infra
274	BSNYNRP016_RN_Dhoudai	NBSNL	3G	Narayanpur	Narayanpur	BTS+Infra
275	BSNYNRP018_RN_Jharaghati	NBSNL	3G	Narayanpur	Narayanpur	BTS+Infra
276	BSNYNRP019_RN_Dhanora	NBSNL	3G	Narayanpur	Narayanpur	BTS+Infra
277	BSNYNRP020_RN_Munjmeta	NBSNL	3G	Narayanpur	Narayanpur	BTS+Infra
278	BSNYORC015_RB_Farasgaon_NAR	BSNL	2G+3G	Narayanpur	Narayanpur	BTS+Infra
279	BSNYNRP103_UN_STF_Camp	NBSNL	2G+3G	Narayanpur	Narayanpur	BTS+Infra
280	BSNYNRP021_RN_Anjarel-Hill	NBSNL	2G+3G	Narayanpur	Narayanpur	BTS+Infra
281	BSSKNG001_RB_Kukanar	BSNL	2G+3G	Sukma	Sukma	BTS+Infra
282	BSSKNG002_RB_Chhindgarh	NBSNL	2G+3G	Sukma	Sukma	BTS+Infra
283	BSSKNG003_RB_Tongpal	BSNL	2G+3G	Sukma	Sukma	BTS+Infra
284	BSSKNG004_RI_Rokel	IP	2G+3G	Sukma	Sukma	BTS only
285	BSSKNT005_RB_Dornapal	NBSNL	2G+3G	Sukma	Sukma	BTS+Infra
286	BSSKNT006_RB_Konta	BSNL	2G+3G	Sukma	Sukma	BTS+Infra
287	BSSKNT007_UI_Dornapal IAdditional	IP	2G+3G	Sukma	Sukma	BTS only
288	BSSKNT008_RI_KontaTown	IP	2G+3G	Sukma	Sukma	BTS only
289	BSSKNT009_RN_DornapalNBSL	NBSNL	2G+3G	Sukma	Sukma	BTS+Infra
290	BSSKNT010_RN_Errabor	NBSNL	2G+3G	Sukma	Sukma	BTS+Infra

291	BSSKKNT011_RN_Konta_Busstnd	NBSNL	2G+3G	Sukma	Sukma	BTS+Infra
292	BSSKKNT012_RN_Palem	NBSNL	2G+3G	Sukma	Sukma	BTS+Infra
293	BSSKSKM013_RB_Gadidas	BNSL	2G+3G	Sukma	Sukma	BTS+Infra
294	BSSKSKM016_RN_Kerlapal	NBSNL	2G+3G	Sukma	Sukma	BTS+Infra
295	BSSKSKM022_RN_INIJRAM_CRPF_CAMP_219_BTL	NBSNL	3G	Sukma	Sukma	BTS+Infra
296	BSSKSKM023_RN_Puspal_CAF	NBSNL	3G	Sukma	Sukma	BTS+Infra
297	BSSKSKM021_RN_Pusamipara(LWE)	NBSNL	2G+3G	Sukma	Sukma	BTS+Infra

Total BTS count: - 297 Numbers

Annexure-2- List of OFC Routes

S.No.	District	SDCA/ Division	Sub	Route Name	ROUTE LENGTH
1	Bastar	Jagdapur		C TXC BAKAWAND-C TXC BKD KARPAWAND-01	10
2	Bastar	Jagdapur		BJC BKD BAKAWAND GIROLA NEAR PAHURBEL-C MOBILE TXC BKD PAHURBEL-01	2.01
3	Bastar	Jagdapur		C TXC SATOSA-C TXC CHINDGAON-01	13
4	Bastar	Jagdapur		C TXC BKD WTR BJC J7 KARPAWAND TO BHANPURI-C TXC CHINDGAON-01	1.5
5	Bastar	Jagdapur		C TXC BKD JAIBEL GSM BTS-C TXC BKD WTR BJC J9 KARPAWAND TO BHANPURI-01	1.5
6	Bastar	Jagdapur		C TXC BKD SANTKARMARI GSM BTS-C TXC BKD KARPAWAND EXCHANGE-01	9.6
7	Bastar	Jagdapur		C TXC JDP SONARPAL EXCHANGE-C TXC JDP WTR BJC J10 JDP TO KNO-01	0.545
8	Bastar	Jagdapur		C TXC KALARTHARI-C TXC JDP MADHOTA-02	14
9	Bastar	Jagdapur		BJC SEONI GP BJC-C MOBILE TXC SEONI-01	2.03
10	Bastar	Jagdapur		BJC JDP MUNDAGAON GP-C MOBILE TXC MUNDAGAON-01	0.279
11	Bastar	Jagdapur		C TXC JDP KILEPAL EXCHANGE-BJC JDP BR COLD STORAGE-01	45
12	Bastar	Jagdapur		BJC KLP KILEPAL GEEDAM SSA-C MOBILE TXC KLP BADEKILEPAL-01	1.505
13	Bastar	Jagdapur		C TXC BASTANAR-C TXC JDP MUTANPAL-02	12
14	Bastar	Jagdapur		C TXC BASTANAR-C TXC JDP BADEKAKULLOOR-01	16
15	Bastar	Jagdapur		C TXC BASTANAR-BJC JDP BASTANAR-01	1.5
16	Bastar	Jagdapur		C TXC DRB DARBHA-BJC JDP WTR J20 JAGDALPUR TONGPAL-01	0.35
17	Bastar	Jagdapur		C TXC JDP MOULIPADAR-C TXC JDP WTR BJC J4 JAGDALPUR TO DARBHA-01	4.4
18	Bastar	Jagdapur		C TXC JDP WTR BJC J13 JDP TO DWD-C TXC JDP DHILMILI GSM-01	0.7
19	Bastar	Jagdapur		BJC JDP MAULIPADAR-C MOBILE TXC JDP NEGANAR-01	1.35
20	Bastar	Jagdapur		C TXC JDP TIRATHGARH-BJC JDP TIRATHGARH-01	1.9
21	Bastar	Jagdapur		C TXC JDP DIMRAPAL GSM BTS-BJC JDP DIMRAPAL BTS WTR JDP DHARBA-01	0.4
22	Bastar	Jagdapur		C TXC JDP DIMRAPAL GSM BTS-C TXC JDP MEDICAL COLLAGE GSM BTS-02	1.3
23	Bastar	Jagdapur		C TXC JDP DIMRAPAL GSM BTS-C TXC JDP MEDICAL COLLAGE JAGDALPUR-02	0.6
24	Bastar	Jagdapur		C TXC JDP TOKAPAL EXCHANGE-BJC JDP WTR J15 JAGDALPUR KILEPAL 12 F-01	1.37
25	Bastar	Jagdapur		BJC JDP RAIKOT GP-C MOBILE TXC RAIKOTE-01	0.44
26	Bastar	Jagdapur		BJC JDP DHIMRAPAL SHEDWA SSA NEAR RAJUR-C MOBILE TXC RAJUR-01	2.615
27	Bastar	Jagdapur		C TXC JDP SARGAD-C TXC JDP JAMAWADA-01	9
28	Bastar	Jagdapur		BJC JDP ADAVAL 48 F-BJC JDP SARGUD-01	12
29	Bastar	Jagdapur		BJC JDP BAZAWAND-C MOBILE TXC BAJAWAND-01	14
30	Bastar	Jagdapur		C TXC JDP ADAVAL-C TXC JDP NAGARNAR-01	20
31	Bastar	Jagdapur		BJC JDP ADAVAL NAGARNAR SSA JOINT-C MOBILE TXC JDP MADPAL-01	1.53
32	Bastar	Jagdapur		C TXC JDP NAGARNAR-C MOBILE TXC JDP NMDC STUDIO APARTMENT	6
33	Bastar	Jagdapur		C TXC JDP NAGARNAR-C TXC JDP KARANPUR-02	8.9
34	Bastar	Jagdapur		C TXC JDP MARKEL-BJC MARKEL-01	0.45
35	Bastar	Jagdapur		C TXC BKD KESHARPAL-BJC JDP KESARPAL-01	1.3
36	Bastar	Jagdapur		BJC KUMHLI BBNL BJC-C MOBILE TXC KUMHALI-01	2.283
37	Bastar	Jagdapur		BJC JDP SORGAON GP-C MOBILE TXC SORGAON-01	0.55
38	Bastar	Jagdapur		BJC JDP BAGMOHLAI GP-C MOBILE TXC JDP BAGMOHLAI-01	0.558
39	Bastar	Jagdapur		BJC TURPURA GP-C MOBILE TXC TURPURA-01	1.2
40	Bastar	Jagdapur		C TXC BAKAWAND-C TXC JDP ASNA-01	21
41	Bastar	Jagdapur		C TXC JDP CHHOTEDEVDA-C MOBILE TXC JDP DASAPAL BTS	5.3
42	Bastar	Jagdapur		C TXC JDP CHHOTEDEVDA- BJC JDP ASNA BAKAWAND ROUTE NEAR CHHOTEDEVDA	1.4

43	Bastar	Jagdapur	C TXC BKD GIROLA-C TXC JDP GIROLA BTS-01	3
44	Bastar	Jagdapur	C TXC BKD JAITGIRI GSM BTS-C TXC BKD GIROLA EXCHANGE-01 & C TXC BKD JAITGIRI GSM BTS-C TXC BKD KARPAWAND-01	14.5
45	Bastar	Jagdapur	C TXC BAKAWAND-C TXC KINJOLI-01	11
46	Bastar	Jagdapur	C MOBILE TXC RAJNAGAR BTS - BAKAWAND KINJOLI BJC	2.5
47	Bastar	Jagdapur	C TXC BAKAWAND-C TXC BKD GIROLA-02	11
48	Bastar	Jagdapur	C TXC JDP CHHOTEDVEVDA-C TXC JDP KACHNAR-02	8
49	Bastar	Jagdapur	BJC JDP KUDALGAON GP-C MOBILE TXC KUDALGAON-01	0.575
50	Bastar	Jagdapur	C TXC BADANJI-BJC JDP JAGDALPUR LOHANDIGUDA WTR OFC NEAR BADANJI-01	0.45
51	Bastar	Jagdapur	C TXC DEURGAON-BJC JDP DEURGAON GP-01	0.655
52	Bastar	Jagdapur	C TXC LOHANDIGUDA-C TXC LNG RATENGA GSM BTS-01	13
53	Bastar	Jagdapur	C TXC LOHANDIGUDA-C TXC LNG MATNAR GSM BTS-01	15
54	Bastar	Jagdapur	BJC JDP KURENGA GP-C MOBILE TXC KURENGA-01	0.428
55	Bastar	Jagdapur	C TXC LNG WTR BJC J9 JAGDALPUR TO LOHANDIGUDA-C TXC LNG CHHAPAR BHANPURI-01	0.6
56	Bastar	Jagdapur	C TXC JDP ASNA-BJC JDP ASNA CHOWK-01	0.38
57	Bastar	Jagdapur	C TXC JDP ADAWAL-C TXC JAGDALPUR-01	12
58	Bastar	Jagdapur	BJC JDP VRINDAVAN ADAWAL-C MOBILE TXC JDP KARKAPAL-01	1.625
59	Bastar	Jagdapur	BJC JDP VRINDAVAN GHODAPEGA CAMP-C MOBILE TXC JDP PATHRAGUDA-01	2.45
60	Bastar	Jagdapur	C TXC JDP VRINDAVAN-C TXC JDP ATITHI HOTEL JAGDALPUR-02	1.9
61	Bastar	Jagdapur	C TXC JDP VIKAS NAGAR-BJC JDP DHARAMPURA BR COLDSTORAGE SSA-01	1.93
62	Bastar	Jagdapur	C TXC JDP SSA BJC J1 JDP TO KLP-C TXC JDP GIDAM NAKA BTS-01	0.215
63	Bijapur	Bijapur	BHAIRAMGARH-GEEDAM	46.8
64	Bijapur	Bijapur	C TXC BJP JANGLA-BJC BJP SSA J9 NIMED BHAIRAMGARH OFC ROUTE-01	0.07
65	Bijapur	Bijapur	C TXC DWD BHAIRAMGARH-C TXC DWD NELASNAR-02, NELASNAR-BADETUMNAR	33
66	Bijapur	Bijapur	MADDED-BHOPALPATTANAM	21.5
67	Bijapur	Bijapur	BIJAPUR-MADDED	38
68	Bijapur	Bijapur	C TXC BHOPALPATNAM-C TXC BPL BHOPALPATNAM TAHSIL OFFICE-01	1.4
69	Bijapur	Bijapur	C TXC AWP AWAPALLI-BJC BJP SSA J6 BIJAPUR MADDED OFC ROUTE-01	23
70	Bijapur	Bijapur	BIJAPUR-NIMED	15
71	Bijapur	Bijapur	BJC BJP ITPAL GP-C MOBILE TXC BJP ITPAL-01	1.5
72	Bijapur	Bijapur	C TXC BJP BIJAPUR I-C TXC BJP OLD HOSPITAL-01	1
73	Bijapur	Bijapur	C TXC BJP BIJAPUR I-C TXC BJP COLLECTRET-01	1
74	Bijapur	Bijapur	C TXC BJP ROUTPARA-BJC BJP BUSTAND-01	0.35
75	Dantewada	Bacheli	C TXC BCH BHANSI-BJC BCH WTR J6 BHANSI BACHELI DANTEWADA-01	2
76	Dantewada	Dantewada	BJC DWD WTR DANTEWADA BACHELI 12F ROUTE-C MOBILE TXC DWD GAMAWADA-01	0.8
77	Dantewada	Dantewada	C TXC DWD PONDUM-BJC DWD SSA J7 DANTEWADA KATEKAYAN OFC ROUTE-01	2
78	Dantewada	Dantewada	C TXC KKD GANJENAR GP-C MOBILE TXC KKD GANJENAR D-01	0.404
79	Dantewada	Dantewada	C TXC DWD BARSOOR CRPF 195-C MOBILE TXC DWD SATDHAR-01	3.2
80	Dantewada	Dantewada	C TXC DWD GEEDAM-C TXC DWD JAWANGA-02	2
81	Dantewada	Dantewada	C TXC DANTEWADA-C TXC DWD BARSOOR-01	32
82	Dantewada	Dantewada	BARSOOR ADD BTS TO BARSOOR EXCH.	0.96
83	Dantewada	Dantewada	C TXC DWD SAMLUR ATC-C TXC DWD BJC NEAR SAMLUR CHOWK GEEDAM BADETUMNAR -01	1.8
84	Dantewada	Dantewada	C TXC DWD CHINNA KARLI-BJC DWD GEEDAM DANTEWADA ROUTE NEAR SBI KARLI-02	0.9
85	Dantewada	Dantewada	C TXC DWD GEEDAM-C MOBILE TXC DWD MAIN ROAD GEEDAM-01	1.11
86	Dantewada	Dantewada	C TXC DWD GEEDAM-C TXC BADETUMNAR-01	21
87	Dantewada	Bacheli	BACHELI-KIRANDUL	10
88	Dantewada	Dantewada	C TXC DWD ARANPUR GP-C MOBILE TXC KKD ARANPUR-01	0.403

89	Dantewada	Dantewada	DANTEWADA-KATEKALYAN	40
90	Dantewada	Dantewada	BJC DWD DANTEWADA KATEKALYAN SSA BJC-C MOBILE TXC DWD BALOOD-01	0.68
91	Dantewada	Dantewada	C TXC DWD COLLECTORATE DANTEWADA-BJC DWD SSA J2 DANTEWADA GEEDAM OFC ROUTE-01	0.15
92	Dantewada	Dantewada	BJC DWD DANTEWADA GEEDAM SSA BJC-C MOBILE TXC DWD GAD COLONY-01	0.704
93	Kanker	Kanker	C TXC KKR BARDEVARI-BJC KKR WTR J5 KANKER BHANU 12F OFC ROUTE-01	1.8
94	Kanker	Kanker	BJC KKR NEAR MODE GP-C MOBILE TXC KKR MODE-01	0.79
95	Kanker	Kanker	C TXC KKR AATURGAON-BJC KKR WTR J5 KANKER KESHKAL OFC ROUTE-01	0.8
96	Kanker	Kanker	C TXC KKR PURIYARA-C TXC KKR BEWARTI EXCHANGE-01	7
97	Kanker	Kanker	C TXC KKR CHARAMA-C TXC SRN NARHARPUR-01	40
98	Kanker	Kanker	KANKER-SARONA	22
99	Kanker	Kanker	C TXC KKR BEWARTI EXCHANGE-C TXC KKR KUMANKHAR GSM-01	10.8
100	Kanker	Kanker	C TXC KKR PURI GSM BTS-C TXC KKR KORAR EXCHANGE-01	15.5
101	Kanker	Kanker	C TXC KKR BOTHA GSM BTS-BJC KKR SSA J5 KORAR PURI 24F OFC RUTE-01	0.5
102	Kanker	Kanker	C TXC KKR KISHANPURI GSM BTS-BJC KKR SSA J3 KORAR PURI OFC ROUTE-01	0.3
103	Kanker	Kanker	C TXC KKR DHANELI-BJC KKR WTR J8 KANKER BHANU 12F OFC ROUTE-01	1
104	Kanker	Kanker	BJC KKR NEAR KAPSI KORAR GP-C MOBILE TXC KKR KAPSI KORAR-01	0.78
105	Kanker	Kanker	BJC KKR KODAGAON GP-C MOBILE TXC KKR KODAGAON-01	1.93
106	Kanker	Kanker	BJC KKR POTGAON GP-C MOBILE TXC KKR POTGAON-01	1.85
107	Kanker	Kondagaon	C TXC KSL DHANORA-C TXC KKR AAMABEDA-03	20
108	Kanker	Kanker	C TXC KKR HALBA BTS-C TXC KKR SSA JOINT J4-01	1.2
109	Kanker	Kanker	C TXC KKR LAKHANPURI-BJC KKR WTR BRANCH JOINT-01	1
110	Kanker	Kanker	C TXC KKR BABUKOHKA-BJC KKR SSA JOINT CHARAMA NARHARPUR RT-01	1.7
111	Kanker	Kanker	BJC KKR KANAPOD LAKHANPURI CSEB BJC-C MOBILE TXC KKR CHINHAURI-01	2.68
112	Kanker	Kanker	BJC KKR CHARAMA NARHARPUR J1-C MOBILE TXC KKR KARRAJAISA-01	1.25
113	Kanker	Kanker	C TXC KKR JEPRA-BJC KKR SSA J7 CHARAMA NARHARPUR OFC ROUTE-01	1
114	Kanker	Kanker	C TXC KKR LILEJHAR-C TXC KKR CHARAMA EXCHANGE-01	11.5
115	Kanker	Bhanupratappur	C TXC ANTAGARH-C TXC BHANUPRATAPPUR MAIN-02	30.5
116	Kanker	Bhanupratappur	C TXC BNU KALESHWAR-C TXC BNU SSA BJC J10ANT-01	0.9
117	Kanker	Bhanupratappur	C TXC BNU RAVGHAT-C TXC BNU SSA BJC J12 ANT-01	2
118	Kanker	Bhanupratappur	C TXC KKR SELEGAON BTS-C TXC KKR KORAR EXCHANGE-01	8.5
119	Kanker	Bhanupratappur	C TXC BNU PEWARI-BJC BNU ANTAGARH BHANU RT WTR JNT-01	0.44
120	Kanker	Bhanupratappur	C TXC BNU BAIJANPURI-C TXC BNU KORAR-03	9
121	Kanker	Bhanupratappur	C TXC BHANBEDA-BJC BNU WTR J7 BHANU KANKER OFC ROUTE-01	1.2
122	Kanker	Bhanupratappur	C TXC BNU BIRKONDAL BTS-C TXC BHANUPRATAPPUR MAIN-01	24.57
123	Kanker	Bhanupratappur	C TXC BNU CHICHGAON BTS-C TXC BNU WTR BJC J4-01	3.6
124	Kanker	Bhanupratappur	C TXC BNU HETARKASA-C TXC BNU KORAR-02	7.8
125	Kanker	Bhanupratappur	C TXC BNU KEWATI GSM-BJC BNU SSA J11 BHANU ANTAGARH OFC ROUTE-01	1.8
126	Kanker	Bhanupratappur	C TXC BNU KORAR-C TXC BNU KURRI-01	7.2

127	Kanker	Bhanupratappur	C TXC BHANUPRATAPPUR MAIN-C TXC DKD DURGKONDAL-01	32
128	Kanker	Bhanupratappur	C TXC BNU SSA BJC J3-C TXC BNU BHUSKI-01	0.2
129	Kanker	Bhanupratappur	C MOBILE TXC BNU CHEMAL-C TXC BNU SAMBALPUR-01	20.7
130	Kanker	Bhanupratappur	C TXC BNU DAMKASHA-C TXC BNU SSA JOINT J4-01	1.6
131	Kanker	Bhanupratappur	C TXC PAKHANJUR MAIN-C TXC PKJ BANDE-01	21.006
132	Kanker	Bhanupratappur	C TXC PKJ KAPSI EXCHANGE-BJC PKJ SSA J12 PAKHANJUR2 DURGKONDAL OFC ROUTE-01	2
133	Kanker	Bhanupratappur	C TXC ANTAGARH-C TXC KYB KOYLIBEDA-01	31
134	Kanker	Bhanupratappur	C TXC DURGAKONDAL-C TXC PAKHANJUR MAIN-01	51.45
135	Kanker	Bhanupratappur	C TXC KAPSHI-C TXC PKJ BADGAON-01	1
136	Kanker	Bhanupratappur	C TXC PKJ BANDE COLONY-C TXC PKJ SBI BANDE LEASE CKT-01	0.25
137	Kanker	Bhanupratappur	BJC PKJ KAPSI EXCH TO CSPDCL SSA BJC-C MOBILE TXC PKJ KAPSI II-01	0.33
138	Kanker	Bhanupratappur	C TXC PAKHANJUR MAIN-C MOBILE TXC PKJ AWASPARA-01	1.73
139	Kanker	Bhanupratappur	C TXC PAKHANJUR MAIN-C MOBILE TXC PKJ NEW MARKET-01	1.42
140	Kanker	Bhanupratappur	C TXC BHANUPRATAPPUR MAIN-C TXC BNU SAMBALPUR-01	3.823
141	Kanker	Kanker	C TXC KKR IKSHAPUR-BJC KKR SSA J3 OAN SINGHARBHAT CTJW7 COLLEGE-01	7
142	Kanker	Kanker	BJC KKR MATHWADALAL GP PH I-C MOBILE TXC KKR MATHWADALAL BTS-01	0.46
143	Kanker	Kanker	C TXC MAKDIKHUNA-BJC KKR WTR J3 KANKER BHANU 12F OFC ROUTE-01	2.5
144	Kanker	Kanker	C TXC BNU SSA BJC J1-BJC BNU NEHRU NAGAR-01	1.6
145	Kanker	Kanker	C TXC BHANUPRATAPPUR MAIN-C TXC BNU BAZARPARA-01	1.1
146	Kanker	Kanker	C TXC KKR KANKER MAIN-C TXC KKR AKTA NAGAR-01 & AKTA NAGAR TO RES COLONY	6.8
147	Kanker	Kanker	C TXC KKR AADARSHNAGAR-BJC KKR SSA J3 KANKER EKTA NAGAR OFC ROUTE-01	0.5
148	Kanker	Kanker	C TXC KKR SINGARBHAT-BJC KKR SSA J3 KANKER SARONA OFC ROUTE-01	1
149	Kanker	Kanker	C TXC KKR KANKER MAIN-C TXC KKR CIVIL LINE-01	1.1
150	Kanker	Kanker	C TXC KKR KODABHATA-BJC KKR SSA J3 KANKER SARONA OFC ROUTE-01	0.6
151	Kanker	Kanker	C TXC KKR BHOIPARA-BJC KKR SSA JOINT-01	1
152	Kondagaon	Kondagaon	C TXC KNO BANIYAGAON-C TXC KNO MARDAPAL-03	26.5
153	Kondagaon	Kondagaon	BJC KNO BANIYAGAON BHANPURI SSA ROUTE NEAR JOBA-C MOBILE TXC KNO JOBA-01	1.96
154	Kondagaon	Kondagaon	BJC KNO BANIYAGAON MARDAPAL SSA JOINT J15-C MOBILE TXC KNO GOLAWAND-01	0.43
155	Kondagaon	Kondagaon	C TXC KNO MALAKOT-BJC KNO WTR J3 KONDAGAON NARAYANPUR OFC ROUTE-01	7.1
156	Kondagaon	Kondagaon	BJC KNO SAMBALPUR BAHMANI BBNL BJC-C MOBILE TXC KNO BAHMANI-01	0.97
157	Kondagaon	Kondagaon	C TXC KNO SAMBALGUR GP-C MOBILE TXC KNO SAMBALPUR-01	0.21
158	Kondagaon	Kondagaon	BUNAGAON BTS TO MALAKOT BJC	0.62
159	Kondagaon	Kondagaon	BJC KNO BJC FARASGAON RANDHANA NEAR BARKAI-C MOBILE TXC KNO SONABERA-01	3.978
160	Kondagaon	Kondagaon	C TXC KNO BADEKANERA-C TXC KNO CHHIPAWAND-01	10
161	Kondagaon	Kondagaon	C TXC KNO CHIPAWAND-BJC KNO WTR CHIPAWAND JOINT-01	0.042
162	Kondagaon	Kondagaon	C TXC MKD BIJAPUR II-BJC KNO WTR AMARAVATHI-01	3.5
163	Kondagaon	Kondagaon	C TXC KNO SHYAMPUR-BJC KNO WTR J3 KONDAGAON MAKDI OFC ROUTE-01	17
164	Kondagaon	Kondagaon	C TXC KNO PALLI-C TXC KNO SHYAMPUR-02	3
165	Kondagaon	Kanker	C TXC KKR WTR JOINT J8-C TXC KSL KHALEMURBEND-01	1.5
166	Kondagaon	Jagdapur	C TXC GHODAGAON-C TXC BKD BHANPURI-02	9
167	Kondagaon	Kondagaon	C TXC KSL BAHIGAON-BJC KNO BAHIGAON WTR-01	0.315
168	Kondagaon	Kondagaon	C TXC KSL BAHIGAON-C TXC KSL DHANORA-01	20
169	Kondagaon	Kondagaon	C TXC KSL KESHKAL EXCHANGE-C TXC KSL BATRALI MICRO4	4

			TOWER-02	
170	Kondagaon	Kondagaon	BJC KNO KANKER KESHKAL 12F WTR ROUTE NEAR VSM CHOW-C MOBILE TXC KSL SURDONGAR-01	0.48
171	Kondagaon	Kondagaon	BJC VSM VISHRAMPURI BADERAJPUR SSA BJC-C MOBILE TXC VSM KORGAON-01	0.76
172	Kondagaon	Kondagaon	C TXC PGN RANDHNA-C TXC KNO BADEBATTAR-02	11.5
173	Kondagaon	Kondagaon	C TXC KNO BANSKOT-BJC KNO WTR BANSKOT-01	1.52
174	Kondagaon	Kondagaon	C TXC KSL SALNA GSM TOWER-C TXC KSL WTR BJC J6 VSRM TO MKD-01	1.8
175	Kondagaon	Kondagaon	BJC VSM BADERAJPUR KOPRA BBNL BJC-C MOBILE TXC VSM KOPRA-01	0.76
176	Kondagaon	Kondagaon	C TXC VISHRAMPURI-C TXC KNO BADERAJPUR-02	21
177	Kondagaon	Kondagaon	BJC KNO BANIYAGAON MARDAPAL SSA ROUTE NEAR SONABAL-C MOBILE TXC KNO SONABAL-01	1.013
178	Kondagaon	Kondagaon	C TXC KNO BADEDONGAR-C TXC PGN ALORE-01	9.5
179	Kondagaon	Kondagaon	C TXC PGN LANJODA-C TXC KNO BHANDERSEONI-02	13.8
180	Kondagaon	Kondagaon	C TXC FARASGAON-C TXC PGN ALORE-02	11.5
181	Kondagaon	Kondagaon	BJC KNO WTR BORGAON-C MOBILE TXC KNO BORGAON-01	0.164
182	Kondagaon	Kondagaon	C TXC KNO JUGANI KLAR GSM BTS-C TXC KNO LANJODA EXCHANGE-01	8.7
183	Kondagaon	Kondagaon	C TXC KNO MANJIHATGAON-BJC KNO MANJIHATGAON WTR-01	2.9
184	Kondagaon	Kondagaon	C TXC FARASGAON-C TXC PGN RANDHNA-01	16
185	Kondagaon	Kondagaon	C TXC KNO CHIKALPUTI MICRO-C TXC KNO WTR BJC J2 KNO TO JDP-01	2
186	Kondagaon	Kondagaon	C TXC KNO DNK TOWER KONDAGAON-C TXC KNO CRPF CAMP KONDAGAON-01	2.2
187	Kondagaon	Kondagaon	C TXC KNO KONDAGAON JAMKOTPARA-C TXC KNO COLLECTRET KONDAGAON-01	1.12
188	Kondagaon	Kondagaon	NEAR COLLECTORATE TO CHIKALPUTTI BJC	0.63
189	Kondagaon	Kondagaon	C TXC KNO KONDAGAON MAIN-C TXC KNO SARGIPAL-01	2
190	Narayanpur	Narayanpur	C TXC NPR NELWAD-BJC NPR WTR J5 NARAYANPUR KONDAGAON-01	2.65
191	Narayanpur	Narayanpur	C TXC NPR DEVGAON GSM TOWER-C TXC NPR WTR BJC J2 NPR TO KNO-01	1.8
192	Narayanpur	Narayanpur	C TXC NPR CHHOTEDONGAR-C TXC NPR ORCHHA-01	26.6
193	Narayanpur	Narayanpur	C TXC NPR CHHOTEDONGAR-C TXC NPR FARASGAON-01	26.5
194	Narayanpur	Narayanpur	C TXC NPR DHODAI GSM BTS-C TXC NPR SSA BJC J26 NPR TO ORCHHA-01	0.5
195	Narayanpur	Narayanpur	BJC NPR FARASGAON CHOTEDONGAR OFC NEAR JHARAGHATI-C MOBILE TXC NPR JHARAGHATI LWE-01	0.704
196	Narayanpur	Narayanpur	C TXC NPR DHANORA GSM BTS-C TXC NPR SSA BJC J28 NPR TO ORCHHA-01	0.5
197	Narayanpur	Narayanpur	C TXC NARAYANPUR-C TXC NPR FARASGAON-01	21.5
198	Narayanpur	Narayanpur	C TXC NARAYANPUR-C TXC NPR STF CAMP NARAYANPUR-02	4
199	Narayanpur	Narayanpur	BJC NPR ITBP ROUTE BJC FOR NPR ADD 3 BTS-C MOBILE TXC NPR NARAYANPUR ADD 3 BTS-01	0.8
200	Narayanpur	Narayanpur	BJC NPR NAGARPALIKA BBNL BJC-C MOBILE TXC NPR POLICE LINE NARAYANPUR-01	1.212
201	Narayanpur	Narayanpur	BJC NPR NAGARPALIKA BBNL BJC-C MOBILE TXC NPR RAMKRISHNA-01	1.553
202	Narayanpur	Narayanpur	C TXC NPR BRC BHAVAN-BJC NPR NPR WTR J2 NARAYANPUR ANTAGARH-01	1.9
203	Narayanpur	Narayanpur	C TXC NPR NARAYANPUR MAIN-C TXC NPR COLLECTRET-01	2
204	Narayanpur	Narayanpur	C TXC NPR NARAYANPUR MAIN-C TXC NPR BAKHRU PARA-01	1.6
205	Sukma	Sukma	C TXC DRB KUKANAR-BJC SKM WTR J5 TONGPAL SUKMA OFC RUTE-01	0.3
206	Sukma	Sukma	C TXC CHHINDGARH-BJC SKM WTR J10 TONGPAL SUKMA OFC ROUTE-01	0.3
207	Sukma	Sukma	C TXC KONTA-C TXC SUKMA-02	88
208	Sukma	Sukma	C TXC KONTA-C TXC KNT KONTA BUS STAND-01	1.5

209	Sukma	Sukma	C TXC SKM GADIRAS-BJC SKM WTR J8 SUKMA NAKULNAR OFC ROUTE-01	2
210	Sukma	Sukma	C TXC SKM SSA BJC J9 SKM TO DORNAPAL-C TXC SKM KERLAPAL BTS-01	0.3
211	Sukma	Sukma	C TXC SUKMA-C MOBILE TXC SKM ATC-01	0.8
212	Sukma	Sukma	C TXC SUKMA-C TXC SKM KUMARRAAS-01	6.56
213	Sukma	Sukma	BJC SKM SSA J1 SUKMA EXCHANGE SP OFFICE OFC ROUTE-C MOBILE TXC SKM SAW MILL-01	0.4

SECTION-4 PART A GENERAL INSTRUCTIONS TO BIDDERS (GIB)

1. DEFINITIONS:-

- (a) "**The Purchaser**" means the Chief General Manager, CG circle, RAIPUR on behalf of the B.S.N.L. or any other officer working under the delegated authority of CGM, BSNL RAIPUR.
- (b) "**The Bidder**" means the individual or company/firm who participates in this TENDER and submits its bid.
- (c) "**The Supplier**" or "**The Vendor**" or "**The contractor**" or "**Service Provider**" means the individual or firm supplying the goods & services under the contract.
- (d) "**The Goods**" means all the equipment, machinery, and/or other materials which the Supplier is required to supply to the Purchaser under the contract.
- (e) "**The Advance Purchase Order (APO) / Advance Work Order (AWO)**" or "**Letter of Intent (LOI)**" means the intention of Purchaser to place the Purchase order and / or Work Order on the bidder. Conveyance of approved rates by BSNL and acceptance of approved rates of APO /AWO/LOI by bidder shall form the contract.
- (f) "**The Purchase Order (P.O.) / Work Order (W.O.)**" means the order placed by the Purchaser on the Supplier signed by the Purchaser containing the goods to be delivered/services to be performed for various BSNL customers as per requirement from time to time during validity of contract.
- (g) "**The Contract Price**" means the price payable to the Supplier under the purchase order / work order for the full and proper performance of its contractual obligations.
- (h) "**Validation**" / **POC (Proof of concept)** is a process of testing the equipment as per the specification & customer's Requirements for use in BSNL network. Validation/POC is carried out at selected sites to check stability, reliability, security and compliance to technical specification.
- (i) "**Telecom Service Provider**" means any Telecom operator in India, who is licensed by the Department of Telecommunications (DOT), Government of India to provide telecom services to the general public or to the other DOT licensed Telecom operators. "Telecom Service Provider" also refers to any Telecom operator in other countries providing telecom services to general public of that country or to other telecom operators of the same country.
- (j) "**Successful Bidder(s)**" means the bidder(s) to whom work in this Tender is awarded.
- (k) "**Bid validity period**" is the duration during which BSNL will convey its intention to procure tendered material by way of issue of Advance Purchase Order/Advance work order / letter of Intent.
- (l) The term 'GST Act' shall include Central Goods and Services Tax Act, 2017 (CGST), State Goods and Service Tax Act, 2017 (SGST), Integrated Goods and Service Tax Act, 2017 (IGST), Union Territory Goods and Service Tax Act, 2017 (UTGST), Rules and any other GST related legislation in India.
- (m) For the purpose of this agreement, the term 'GST' shall include Central Goods and Service Tax Act, 2017 (CGST), State Goods and Service Tax Act, 2017 (SGST), Integrated Goods and Service Tax Act, 2017 (IGST), Union Territory Goods and Service Tax Act, 2017 (UTGST) and any other taxes levied under the GST related legislation India, as may be applicable.

2. ELIGIBILITY CONDITIONS:-

Kindly refer to Clause-4 of Section-1, Part A i.e. detailed NIT of Tender.

3. COST OF BIDDING:-

The bidder shall bear all costs associated with the preparation and submission of the bid. The Purchaser will, in no case, be responsible or liable for these costs, regardless of the conductor

outcome of the bidding process.

4. DOCUMENTS REQUIRED:-

The goods required to be supplied; bidding procedures and contract terms and conditions are prescribed in the Bid Documents. The contents of the Bid documents are specified in the covering letter.

The Bidder is expected to examine all instructions, forms, terms and specifications in the Bid Documents and clarifications/ amendments/ addenda, if any. Failure to furnish all information required as per the Bid Documents or submission of the bids not substantially responsive to the Bid Documents in every respect will be at the bidder's risk and may result in rejection of the bid. Any alterations/modifications in the downloaded copy of the Tender document will lead to rejection of Bid, in case it is detected prior to finalization of tender, however, after tender finalization or signing of contract, if any deviation is found or dispute is raised, the terms and conditions as contained in printed Bid document shall prevail.

5 CLARIFICATION OF BID DOCUMENTS:-

5.1. A prospective bidder, requiring any clarification on the Bid Documents shall notify the Purchaser in writing by Email of the Purchaser as indicated in the invitation of Bid. The Purchaser shall respond in writing to any request for the clarification of the Bid Documents, which it receives **10 days prior to the date of opening of the Tender**. Copies of the query (without identifying the source) and clarifications by the Purchaser shall be posted on website www.etenders.gov.in for information of prospective bidders.

5.2 Any clarification issued by BSNL in response to query raised by prospective bidders shall form an integral part of bid documents and shall amount to an amendment of the relevant clauses of the bid documents.

6 AMENDMENT OF BID DOCUMENTS:-

The Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, may modify bid documents by amendments prior to the date of submission of Bids with due notification to prospective bidders.

The amendments shall be posted on e-tendering portal (www.etenders.gov.in) to all prospective bidders and these amendments will be binding on them.

In order to afford prospective bidders a reasonable time to take the amendment into account in preparing their bids, the purchaser may, at its discretion, extend the dead line for the submission of bids suitably.

7 DOCUMENTS COMPRISING THE BID:-

The bid prepared by the bidder shall ensure availability of the following components:

Documentary evidence establishing that the bidder is eligible to bid and is qualified to perform the contract if its bid is accepted in accordance with the clause 2 & 10.

Bid Security furnished in accordance with clause 12 & cost of the Tender document paid, if applicable.

A Clause by Clause compliance as per clause 11 (c)

A Bid form and price schedule completed in accordance with clause 8.

8 BID FORM: -

The bidder shall complete the bid form and appropriate Price Schedule furnished in the Bid Documents, indicating the goods to be supplied/services to be performed with brief description of the goods, services, quantity and prices as per section- 9.

9 (Deleted)

10 DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATION:-

Documents as listed in clause-30 of Section-2 are to be submitted towards eligibility.

11 DOCUMENTS ESTABLISHING GOODS' CONFORMITY TO BID DOCUMENTS:-

Pursuant to clause 7, the bidder shall furnish, as part of its bid, documents establishing the conformity of its bid to the Bid Documents of all goods and services which he proposes to supply under the contract.

The documentary evidences of the "goods and services" conformity to the Bid Documents may be, in the form of literature, drawings, data etc. and the bidder shall furnish:

- (a) A detailed description of goods with essential technical and performance characteristics;
- (b) (deleted)
- (c) A clause-by-clause compliance on the purchaser's Technical Specifications and Commercial Conditions demonstrating substantial responsiveness to the Technical Specifications and Commercial Conditions. In case of deviations, a statement of the deviations and exception to the provision of the Technical Specifications and Commercial Conditions shall be given by the bidder.

For the purpose of compliance to be furnished pursuant to the clause 11.2(c) above, the bidder shall note that the standards for the workmanship, material and equipment and reference to the brand names or catalogue number, designated by the Purchaser in its Technical specifications are intended to be descriptive only and not restrictive.

12 BID SECURITY /EMD:-

12.1 The bidder shall furnish, as part of its bid, a bid security as mentioned in Section-1 (DNIT).

12.2 The MSE (Micro and Small Units) 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 the 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. If a vendor registered with body specified by Ministry of Micro, Small & Medium Enterprise claiming concessional benefits 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 date of issue of such order.

12.3 The bid security is required to protect the purchaser against the risk of bidder's conduct, which would warrant the forfeiture of bid security pursuant to Para 12.8.

12.4 The bid security shall be in the form of a Bank Guarantee issued by a Nationalized/Scheduled Bank in favor of the Purchaser, **valid for a period of 180 days from the date of Tender opening.** However, in cases where bidder is not in a position to submit the BG for whatever reason, Crossed Demand Draft / Pay Order drawn in favor of " **The AO (A&B) O/o CGMT, CG Circle BSNL, RAIPUR** " submitted shall also be acceptable, but no interest shall be payable.

12.5 A bid not secured in accordance with Para 12.1 & 12.2 shall be rejected by the Purchaser being non-responsive at the bid opening stage and archived unopened on e-tender portal for tenders.

12.6 The bid security of the unsuccessful bidder will be discharged/returned as promptly as possible and within 30 days of finalization of the Tender or expiry of the period of the bid validity period prescribed by the purchaser pursuant to clause 13.

12.7 The successful bidder's bid security will be discharged upon the bidder's acceptance of the Advance Purchase Order (APO) satisfactorily in accordance with Clause 27 (given below) and furnishing the performance security.

12.8 The bid security may be forfeited:

- (a) If the bidder withdraws or amends its bid or impairs or derogates from the bid in any respect during the period of bid validity specified by the bidder in the bid form or extended subsequently; or
- (b) If the bidder does not accept the APO/ AWO (Advance work order) / LOI and/ or does

not submit PBG & sign the contract/agreement in accordance with clause 28.

The bidder has to submit the bids security for items quoted as per DNITender in Section-1.

13 PERIOD OF VALIDITY OF BIDS:-

Bid shall remain valid for period specified in clause 2 of Section -2(Tender Information). **A bid valid for a shorter period shall be rejected by the purchaser being non responsive.**

Note:- In case, the date of opening of the Tender is postponed due to any reason and the bidder has already prepared BG towards Bid Security, in such cases, BG validity as per earlier Tender opening date would be acceptable.

In exceptional circumstances, the purchaser may request the consent of the bidder for an extension to the period of bid validity. The request and the response there to shall be made in writing. The bid security provided under clause 12 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.

Placement of A.W.O.(AdvanceWorkOrder)/APO/LOI within bid validity period shall constitute the intention of Purchaser to procure the tendered material/services. Regular W.O.(WorkOrder)/P.O(Purchase Order)will be issued after unconditional acceptance of A.W.O/A.P.O. by bidder along with submission of Performance Bank Guarantee. Work order (W.O.)/Purchase Order(P.O.)need not be issued within bid validity period.

14 FORMAT AND SIGNING OF BID:-

14.1 The bidder shall submit his bid, online comply all eligibility conditions, other terms and conditions of Tender document to be read along with the clarifications and amendments issued in this respect All the documents must be authenticated, using Digital Signature, by the authorized person. The letter of authorization shall be indicated by written power of attorney accompanying the bid.

Note:- The Purchaser may ask the bidder(s) to supply, besides original bid, additional copy of bids as required by him.

14.2 The bid shall contain no inter lineations, erasures or overwriting except as necessary to correct errors made by the bidder in which case such corrections shall be signed by the person or persons signing the bid. All pages of the original bid, except for un-amended printed literatures, shall be digitally signed by the person or persons signing the bid.

14.3 Power of Attorney

- (a) The power of Attorney should be submitted and executed on the non-judicial stamp paper (as per format at 7(D) of Section-7) of appropriate value as prevailing in the concerned states(s) and the same be **EITHER** attested by a Notary public **OR** registered before Sub-registrar of the state(s) concerned. A self declaration of not applicability of the firm should be submitted
- (b) The power of Attorney be 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. Copy of Board resolution/authorization shall also be submitted along with POA.
- (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) Deleted
- (e) In case the representative of bidder company, who uploads the documents on e-tender portal using his Digital Signature Certificate (DSC), is different from the authorized signatory for the bid (Power of Attorney holder) then the representative who uploads the documents 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 authorized signatory for the bid.

15 SEALING AND MARKING OF BIDS:-

15.1 The bid should be submitted as per Clause 3 of Section 2 (Tender information).

(a) The bids shall be submitted as under:-

Single Stage Bidding & Two Electronic Envelope System

The details of sealing & marking of bids in this case is given below:

(b) In Single stage bidding & two electronic envelopes system, the bidder shall submit as per Clause 3 of Section-2.

15.2 Offline Documents Envelope:-

(a) The envelope, containing Offline documents mentioned in **clause 4.2 of Section-4 Part-C** of this tender & shall be sealed properly by the bidder and addressed to:

The Asst. General Manager (MM)
O/o CGMT, BSNL, CG Telecom Circle,
Admin Bldg. Khamardih,
Shankarnagar, Raipur-492 007 (CG)
E-mail: agmmmcoryp@gmail.com

(b) The envelope shall bear the name of the Tender, the Tender number and the words '**DO NOT OPEN BEFORE**' (due date & time).

(c) The inner and outer envelopes shall indicate the name and complete postal address of the bidder to enable the purchaser to return the bid unopened in case it is declared '**LATE**'.

(d) The envelope containing all above offline documents shall be sealed properly by the bidder and shall be delivered on or before due Date & Time of submission of offline bid as specified in DNITender (Section-1 Part-A) to above said address mentioned in clause 15.2(a).

(e) The envelope should be deposited in the Tender box available at the AGM (MM), First Floor, Room No: 109, O/o CGMT CG CIRCLE BSNL Khamardih Vidhan Sabha Road Raipur-492 007 (CG) or sent by Registered Post/Speed Post or delivered in person on the above mentioned address (in clause 15.2(a) above) before the time and date of submission of Bid mentioned in this Tender. The responsibility for ensuring that outstation envelope is delivered in time shall rest with the bidder. The Purchaser shall not be responsible if the bids are delivered elsewhere.

(f) Venue of Tender Opening: The Tender will be opened online in the chamber of AGM (MM), "Room no. A-109, O/o CGMT, BSNL, CG Telecom Circle, Admin Bldg. Khamardih, Shankarnagar, Raipur-492 007 CG on the date & time specified in NIT Tender.

If offline documents are not delivered up to date & time of submission of bid as specified in Tender, the bid shall be rejected.

16. SUBMISSION OF BIDS:-

Bids must be submitted online on e-tender portal www.etenders.gov.in and offline documents (Bid Cost, EMD, POA etc.) by the bidders at the address specified under clause 15.2, not later than given date & time of submission as specified in DNIT under Section-1 Part -A. The Purchaser may, at its discretion, extend this dead line for the submission of bids by amending the Bid Documents in accordance with clause 6 in which case all rights and obligations of the purchaser and bidders previously subject to the deadline will thereafter be subjected to the extended deadline.

The bidder shall submit its bid offer against a set of bid documents purchased by him for all or some of the systems/equipment as per requirement of the Bid Documents. He may include alternate offer, if permissible as per the bid. However, not more than one independent and complete offer shall be permitted from the bidder.

17. LATE BIDS: -

No bid shall be accepted either online by E-Tender Portal or offline document by the purchaser after the specified deadline for submission of bids prescribed by the purchaser pursuant to clause 16.

18. MODIFICATION AND WITHDRAWAL OF BIDS:-

The bidder may modify, revise or withdraw his bid after submission prior to deadline prescribed for submission of bid. The bidder's modification, revision or withdrawal shall have to be online and digitally authenticated as per clause 15. Subject to clause 20, no bid shall be modified subsequent to the deadline for submission of bids.

19 OPENING OF BIDS BY PURCHASER:-

The purchaser shall open bids online in the presence of the authorized representatives of bidders physically present who chose to attend, at time & date specified in DNIT under (Section-1 PART A) on due date.

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 bid opening (A Format is given in enclosed in Section-7(C)).

A maximum of one representative of any bidder shall be authorized and permitted to attend the bid opening.

For sequence & procedural details of opening of Bid, please refer Clause 6 of Section-4 Part-C.

The date fixed for opening of bids, if subsequently declared as holiday by the BSNL/submission of bid is not possible due to unavoidable circumstances, the bid will be opened on the following working day, time and venue remaining unaltered unless the revised date of opening of bids is notified before opening of Tender.

20 CLARIFICATION OF BIDS:-

To assist in the examination, evaluation and comparison of bids, the purchaser may, at its discretion ask the bidder for the clarification of its bid. The request for the clarification and the response shall be in writing. **However, no postbid clarification at the initiative of the bidder shall be entertained.**

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 purchaser at its discretion may call for any clarification regarding the bid 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.

21 PRELIMINARY VALUATION (Refer Clause 1 of Section-4 Part-B)

22 EVALUATION AND COMPARISON OF SUBSTANTIALLY RESPONSIVE BIDS (Refer Clause 2 of Section-4 Part-B)

23 CONTACTING THE PURCHASER:-

Subject to Clause 20, no bidder shall try to influence the Purchaser on any matter relating to its bid, from the time of the bid opening till the time the contract is awarded.

Any effort by a bidder to modify its bid or influence the purchaser in the purchaser's bid evaluation, bid comparison or contract award decision shall result in the rejection of the bid.

24 PLACEMENT OF ORDER/AWARD OF WORK:-

After evaluation of financial proposals (bids), BSNL shall prepare a separate list of Bidders arranged in increasing order of their evaluated prices starting from the lowest against this Tender (i.e. L1, L2, L3 and soon), for the purpose of awarding work. The BSNL reserves the right to counter offer against the quoted price by any bidder.

BSNL reserves the right to increase/decrease up to 25% of the quantum of work and services specified in the schedule of requirements as per DNIT without any change in the unit price or other terms and conditions.

In case of extension of quantity of work additional security deposit of 3 % of the amount of enhanced quantity of work has to be deposited.

In case of weekly progress wise non-performance by L-1 bidder, balance quantity of work of L-1 bidder can be awarded to L-2 bidder at L-1 rate. In such case security deposit of 5% of the amount of enhanced quantity of work has to be deposited by L-2 bidder.

Similarly, in case of weekly progress wise non-performance by L-2 bidder, balance quantity of work of L-2 bidder can be passed to L-1 bidder at L-1 rate.

In case of non-satisfactory performance of weekly progress by L-1, L-2 bidder, BSNL reserves the right to get the balance quantity of work executed by any means including awarding the balance work to any of the existing contractor of Bastar BA at the risk and cost of respective bidder.

The Successful Bidder/Contractor can be asked to execute the work anywhere in Chhattisgarh at the approved L1 rates for the work. The area can be in the same or different Cluster/BA/BA.

25 BSNL'S RIGHT TO ACCEPT AND REJECT ANY OR ALL BIDS:-

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 there by incurring any liability to the affected bidder or bidders on the grounds of BSNL's action.

26 ISSUE OF ADVANCE PURCHASE ORDER (ADVANCE WORK ORDER):-

The issue of Advance Purchase Order/ Advance Work Order shall constitute the intention of BSNL to enter in to contract with the bidder.

The bidder shall within 14 days of issue of the Advance Purchase Order/Advance Work Order, give its acceptance along with performance security in conformity with the proforma provided with the bid document at 7B of Section-7.

The Bidder shall also sign an agreement (framed on the terms and conditions of the TENDER by BSNL to be made available to the bidder along with Advance Purchase Order/ Advance Work Order) within this period after submission of the performance security

In case of non-acceptance of APO by L1 bidder, tender shall be cancelled. Action will be taken to forfeit the EMD of bidder as per clause 12.8 of Section-4 Part-A.

27 SIGNING OF CONTRACT:-

Bidder shall submit unconditional acceptance of approved rates as contained in AWO / APO /LOI along with agreement duly signed by authorized signatory on non-judicial stamp paper of appropriate value and performance security for amount & validity specified in APO / AWO /LOI.

Upon the successful bidder furnishing performance security pursuant to clause 25 & 26, the Purchaser shall discharge the bid security in pursuant to clause 12, except in case of L-1 bidder, whose EMBG/ EMD shall be released only after finalization of ordering of complete tendered quantity in pursuance to clause no.24&27 of this section.

28 ANNULMENT OF AWARD:-

Failure of the successful bidder to comply with the requirement of clause 25&26 shall constitute sufficient ground for the annulment of the award and the forfeiture of the bid security in which event the Purchaser may make the award to any other bidder at the discretion of the purchaser or call for new bids.

29 Not Applicable

30 REJECTION OF BIDS: -

While all the conditions specified in the Bid documents are critical and are to be complied, special attention of bidder is invited to the following clause of the bid

documents. Non-compliance of anyone of these shall result in outright rejection of the bid.

- a. Clauses 12.1, 12.3(c) & 13.1 of Section- 4 Part A: The bids will be rejected at opening stage if Bid security is not submitted as per Clauses 12.1 & 12.3 and bid validity is less than the period prescribed in Clause 13.1 mentioned above.
- b. Clause 2 & 10 of Section-4 Part A: If the eligibility condition as per clause 2 of Section 4 Part A is not met and/ or documents prescribed to establish the eligibility as per Clause 10 of section 4 Part A are not enclosed, the bids will be rejected without further reevaluation.
- c. Section-4 Part A: If clause-by-clause compliance or statement of deviation as prescribed are not given, the bid will be rejected at the stage of primary evaluation.
- d. While giving compliance to Section-5 Part A, General Commercial conditions, Section-4 Part B, Special Instructions to Bidders, Section-5B Special (Commercial) Conditions of Contract and Section-3 Technical Specifications ambiguous words like
- e. "Noted", "Understood", "Noted & Understood" shall not be accepted as complied.
- f. Mere "Complied" will also be not sufficient, reference to the enclosed documents showing compliances must be given.
- g. Section-9 Price Schedule: Prices are not filled in as prescribed in price schedule.

Before outright rejection of the Bid by Bid-opening team for non-compliance of any of the provisions mentioned in clause 30.1(a), 30.1(b) of Section-4 Part A, the bidder company is given opportunity to explain their position, however if the person representing the company is not satisfied with the decision of the Bid opening team, he/they can submit the representation to the Bid opening team immediately but in no case after closing of the Tender process with full justification quoting specifically the violation of Tender condition if any. Bid opening team will not return the bids submitted by the bidders on the date of Tender opening even if it is liable for rejection and will preserve the bids in sealed cover as submitted by taking the signatures of some of the desirous representatives of the participating bidder/companies present on the occasion.

The in-charge of Bid opening team will mention the number of bids with the name of the company found unsuitable for further processing on the date of Tender opening and number of representations received in Bid opening Minutes and if Bid opening team is satisfied with the argument of the bidder/company mentioned in their representation and feel that there is prima-facie fact for consideration, the in-charge of the bid opening team will submit the case for review to Officer competent to approve the Tender as early as possible preferably on next working day and decision to this effect should be communicated to the bidder company within a week positively. Bids found liable for rejection and kept preserved on the date of Tender opening will be returned to the bidders after issue of P.O. against the instant Tender.

If the reviewing officer finds it fit to open the bid of the petitioner, this should be done by giving three (working) days notice to all the participating bidders to give opportunity to participants desirous to be present on the occasion.

31 ACTION BY BSNL AGAINST BIDDER(S) / VENDOR(S) IN CASE OF DEFAULT:-

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

Vendor does not Start the activity in time;

Vendor does not perform satisfactory in the field in accordance with the specifications;

Or any other default whose complete list is enclosed in Appendix-

1. Purchaser will take action as specified in Appendix-1 of this section.

32 Clause deleted

33 Clause deleted.

34 NEAR-RELATIONSHIP CERTIFICATE:-

The bidder should give a certificate that none of his/her near relative, as defined below, is working in the BSNL units*

34.1 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".

34.2 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).

34.3 The format of the certificate is given in Section 6(B).

35 VERIFICATION OF DOCUMENTS AND CERTIFICATES:-

The bidder will ensure that all the documents and certificates, including experience/performance and self-certificates submitted by him are correct and genuine before enclosing them in the bid. The onus of proving genuineness of the submitted documents would rest with the bidder.

If any document/ paper/ certificate submitted by the participant bidder is found / discovered to be false / fabricated / tempered / manipulated either during bid evaluation or during award of contract or thereafter, then the Purchaser will take action as per Clause-1 of Appendix-1 of this section.

36 Security Clause as per latest guidelines and requirement:-

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

APPENDIX-1 TO SECTION-4 PART-A

S.No.	Defaultsofthe bidder(s) /vendor.	Actiontobetaken
A	B	C
1(a)	Submittingfake/forged a) Bank Instruments with the bid to meetterms & condition of tender in respect oftenderfeeand/or EMD; b) Certificate for claiming exemption inrespectoftenderfeeand/or EMD; and detection of default at any stage fromreceipt of bids till award of APO/ issue ofPO/WO.	i) RejectionoftenderbidofrespectiveVendor. ii) Banning of business for 3 years which impliesbarring further dealing with the vendor forprocurement of Goods & Services includingparticipation in future tenders invited by BSNL for 3years fromdate of issueofbanningorder. iii) Termination/ Short Closure of PO/WO, if issued.This implies non-acceptance of further supplies / work& services except to make the already receivedmaterial work/complete workin hand.
	Note1:- However,in this case the performance guarantee if alright will not be forfeited.	
	Note2:- 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 Goods and Services Tax, Income Tax departments etc and as supporting documents towards other terms &conditions with the bid to meet terms &condition of tender:	
	(i) <i>If detection of default is prior to awardofAPO</i>	i) RejectionofBid& ii) ForfeitureofEMD. iii) Banning of business for upto three years whichimplies barring further dealing with the bidder for procurement of Goods & Services including participation in future tenders invited by BSNL for upto3 years fromdate of issueofbanningorder.
	(ii) <i>If detection of default after issue of APO but before receipt of PG/SD(DD,BGetc.)</i>	i) CancellationofAPO, ii) RejectionofBid& iii) ForfeitureofEMD. iv) Banning of business for upto three years whichimplies barring further dealing with the bidder for procurement of Goods & Services includingparticipation in future tenders invited by BSNL for upto3 years fromdate of issue of banning order.
1(b) contd.	(iii) <i>If detection of default after receipt of PG/ SD(DD,BGetc.)</i>	i) Cancellation of APO ii) Rejection of Bid& iii) Forfeiture of PG/SD. iv) Banning of business for upto three years which implies barring further dealing with th ebidder for procurement of Goods & Services including participation in future tenders invited by BSNL for upto3 years from date of issue of banning order. However on realization of PG/ SD amount, EMD, ifnot already released shall be returned.
	(iv) <i>If detection of default after issue of PO/WO</i>	i) Termination/ Short Closure of PO/WO and Cancellation of APO

		<p>ii) RejectionofBid & iii) ForfeitureofPG/SD.</p> <p>iv) Banning of business for upto three years which implies barring further dealing with the bidder for procurement of Goods & Services including participation in future tenders invited by BSNL for upto 3 years from date of issue of banning order.However on realization of PG/ SD amount, EMD, ifnot released shall be returned.</p>
	Note 3:- However, settle bills for the material received in correct quantity and quality if pending items donot affect working or use of supplied items.	
	Note4:- Nofurther supplies are to be accepted except that required to make the already supplied items work.	
2	<p>If vendor or his representative uses violent/ coercive means viz. Physical / Verbal means to threatens BSNLExecutive/ employees and/ or obstruct him from functioning in discharge of his duties & responsibilities for the following:</p> <p>a)Obstructing functioning of tender opening executives of BSNL in receipt/ opening of tender bids from prospective Bidder(s),suppliers/ Contractors.</p> <p>b)Obstructing/Threatening other prospectivebidder(s) i.e.suppliers/ Contractors from entering the tender venue and/ or submitting their tender bid freely.</p>	Banning of business for 3 years whichimplies Barring further dealing with thevendor for procurement of Goods &Services including participation in futuretenders invited by BSNL for 3 years fromdateofissue ofbanningorder.
3	Non-receipt of acceptance of APO/ AWO and SD/ PG byL-1bidder(s)within time period specified inAPO/AWO.	Forfeitureof EMD.
4.1	Failure to supplyand/or Commission the equipment and /or execution of the work at all even in extended delivery schedules,if granted againstPO/WO.	<p>i) TerminationofPO/WO.</p> <p>ii) Under take purchase/ work at the risk&costof defaultingvendor.</p> <p>iii) Recovertheexcesschargesifincurredfrom the PG/ SD and outstanding bills ofthedefaultingVendor.</p>
4.2	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>i) Short Closure of PO/ WO to the quantity already received by and/ or commissioned in BSNL and/ or in pipe line provided the same is usable and/or the Vendor promises to make it usable.</p> <p>ii) Under take purchase/work for balance quantity at the risk & cost of defaulting vendor.</p> <p>iii) Recover the excess charges if incurred from the PG/ SD and outstanding bills of the defaulting Vendor.</p>
5.1	The supplied equipment does not perform satisfactory inthe 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,fromthe 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 QACircle)/performance problems and non-rectification of defects (based on reports of field units and QACircle).	<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; 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. Undertake recovery of financial penalty from outstanding dues of vendor including PG/SD; and</p> <p>iii) Withdrawal of TSEC/ IA issued by QACircle.</p>
6	Submission of claims to BSNL against a contract	<p>i) Recovery of over payment from the outstanding dues of Vendor including EMD/ PG & SD etc. and by invoking ‘Setoff’ clause 21 of Section 5 Part A or by any other legal tenable manner.</p> <p>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.</p>
	(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.	
	Note5: -The claims may be submitted with or without collusion of BSNL Executive/employees.	
	Note6: -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	<p>i) Termination of PO/WO.</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 for 3 years from date of issue of banning order.</p> <p>iii) Recovery of any loss incurred on this account from the Vendor from its PG/SD/O/s bills etc.</p>
	a) Adversely affects the normal working of BSNL equipment(s) and/ or any other TSP through BSNL.	

	<p>b) Disrupts/Sabotages functioning of the BSNL network equipments such as exchanges, BTS, BSC/MSC, Control equipment including INetc., transmission equipments but not limited to these elements and/ or any other TSP through BSNL.</p> <p>c) tampers with the billing related data/invoicing/ account of the Customer/ User(s) of BSNL and/ or any other TSP(s).</p> <p>d) hacks the account of BSNL Customer for unauthorized use i.e. to threaten others/ spread improper news etc.</p> <p>e) undertakes any action that affects/endangers the security of India.</p>	<p>iv) Legal action will be initiated by BSNL against the Vendor if required.</p>
8	<p>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>	<p>i) Termination/Short Closure of the PO/WO. ii) Settle bills for the quantity received in correct quantity and quality if pending items do not affect working or use of supplied items. iii) No further supplies are to be accepted except that required to make the already supplied items work. iv) In case of turnkey projects, If the material is Commissioned and is usable without any degradation</p>
		<p>Of performance, then settle bills for the acceptable equipment/ material (or its part). 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) him self and/ or through a committee. Undertake recovery of financial penalty from outstanding dues of vendor including PG/SD.</p>
9	<p>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>	<p>i) Termination/Short Closure of the PO/WO. ii) Settle bills for the material received in correct quantity and quality if pending items do not affect working or use of supplied items. iii) No further supplies are to be accepted except that required to make the already supplied items work. 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). 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) him self and/ or through a committee.</p>

		Under take recovery of financial penalty from outstanding dues of vendor including PG/ SD.
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.	i) Termination of contract, if any. 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, which ever is later.
		iii) Take legal recourse i.e. filing recovery suite in appropriate court.
	b) In spite of Court Orders.	i) Termination of contract, if any. 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, which ever is later.
11	If the Central Bureau of Investigation/Independent External Monitor(IEM)/Income Tax/Goods and Services Tax / 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 by BSNL for 3 years from date of issue of banning order.
	(a) If there is strong justification for believing that the proprietor, 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.	
	(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.	
	(c) If the vendor/supplier fails to submit required documents/ information, where required.	
	(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.

Note7:The above penalties will be imposed provided it does not clash with the provision of the respective tender.

Note8:-In case of clash between these guidelines &provision of invited tender,the provision in the respective tender shall prevail over these guidelines.

Note9:- Banning of Business dealing order shall not have any effecton the existing/ ongoing works/ AMC /CAMC which will continue along with settlement of bills.

SECTION-4 PART(B) SPECIAL INSTRUCTIONS TO BIDDERS (SIB)

The Special Instructions to Bidders shall supplement the 'Instructions to Bidders' and in case of any conflict with those in Section-4 Part A i.e. GENERAL INSTRUCTIONS TO BIDDERS (GIB), the provisions here in shall prevail.

1 PRELIMINARY EVALUATION

Purchaser 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.

If there is a discrepancy between words and figures, the amount in words shall prevail. If the supplier does not accept the correction of the errors, its bid shall be rejected.

Prior to the detailed evaluation pursuant to clause 2, the Purchaser will determine the substantial responsiveness of each bid to the Bid Document. For purposes of these clauses, a substantially responsive bid is one which confirms to all the terms and conditions of the Bid Documents without material deviations. The purchaser's determination of bid's responsiveness shall be based on the contents of the bid itself without recourse to extrinsic evidence.

A bid, determined as substantially non-responsive will be rejected by the purchaser and shall not include subsequently to the bid opening be made responsive by the bidder by correction of then on-conformity.

The Purchaser may waive any minor infirmity or non-conformity or irregularity in a bid which doesn't constitute a material deviation, provided such waiver doesn't prejudice or affect the relative ranking of any bidder. If required, in such cases, the bidder may be asked to submit necessary clarification & supporting authenticated documents during evaluation.

2 EVALUATION AND COMPARISON OF SUBSTANTIALLY RESPONSIVE BIDS

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

The financial proposals of only those Bidders, whose techno-commercial proposals have been determined as substantively responsive, shall be opened.

Financial evaluation shall be done for all the works together, as a package.

The financial bid shall be evaluated as lowest package cost quoted by the Bidder. After evaluation, BSNL shall prepare a list of bidders, arranged in increasing order of the quoted package rate starting from the lowest (i.e. L1, L2, L3 and soon) separately for the purpose of awarding work.

If the quoted rate of Two or more participating Bidders are same, then the work will be awarded in equal quantity to all the bidders, for which decision of BSNL will be final and binding on all the bidders.

L1 will be recommended by TEC / PNC based on over-all cost as per quoted rates of part-A & B of financial bid.

3 FINANCIAL PROPOSAL

The Firm shall submit the financial bid as per format in Section 9-Part B.

The Financial offer should be strictly in the format as at Section 9 (B) and any variation may render the offer invalid.

The prices quoted should be limited to 2 decimal points only. Any figure after 2 decimal points shall be ignored for all purpose. In case of variation between rate mentioned in figures & words, the amount in words shall prevail.

4 Deleted

5 RANKING: Ranking & Evaluation of the offers will be made on Package value basis.

- 6 Paying authority shall be CSCO/o CGMT CG CIRCLE BSNL RAIPUR and details shall be indicated in PO/WO.
- 7 The Award letter on successful submission of PBG to AGM(MM), O/o CGMT CG CIRCLE BSNL RAIPUR,shall be issuedbyAGM(MM),O/o CGMT CG CIRCLE BSNL RAIPUR.
- 8 The Agreement of Contract (AOC) to be executed between Contractor & BSNL shall be conveyed along with LOI based on terms and conditions of theTender.
- 9 In case of any change in constitution of firm / company or transfer of ownership, during the contract period, written approval of tendering authority shall be obtained by submitting the necessary documents,with undertaking that the changed entity shall continue to perform the contractual obligations of the supplier under this contract.
- 10 In case of unreasonableness of the quoted rates,due to exceptional circumstances as stipulated in para (i)of CVC Circular No. 4/3/07 dated 3/3/2007, the tendering authority may negotiate with L1 bidder(s). As a result of negotiation,if the PNC (Price Negotiation Committee) recommends either-
 - (a) Rates after negotiation are reasonable & the recommendations of PNC are accepted by the Tender Accepting Authority;

OR

- (b) The rates after negotiation are unreasonable & the recommendation of PNC is accepted by theTender Accepting Authority.

Based on either of the above recommendations of the PNC and its acceptance by the Tender Accepting Authority, the quantity to be ordered may be determined as full quantity for (a) or bare minimum quantity for (b) above. In case of latter, it is up to the Tender Accepting Authority to decide whether a bare minimum quantity is to be procured or not procured at all, depending on the exigency of the case. The quantity whether full or bare minimum as decided by the tender accepting/approving authority shall be distributed among L1, L2,L3,etc.bidders,as per tender conditions/provisions.

SECTION – 4 PART (C) E-tendering Instructions to Bidders

General:-

These Special Instructions (for e-Tendering) supplement 'Instruction to Bidders', as enclosed in Sec 4 Part A of the Tender Documents. Submission of Bids only through online process is mandatory for this TENDER. For conducting electronic tendering, BSNL Chhattisgarh Circle has decided to use the portal <https://www.etenders.gov.in> through Central Public Procurement Portal of NIC, (Govt. of India) New Delhi.

1) Tender Bidding Methodology:

Sealed Bid System – 'Single Stage Using Two Electronic Envelopes',

The Techno-commercial & Financial bids shall be submitted online by the bidder at the same time.

2) Broad outline of activities from Bidders prospective:

- (a) Procure a Digital Signing Certificate (DSC)
- (b) Register on Electronic Tendering System® (ETS)
- (c) Create Users and assign roles on ETS
- (d) View Notice Inviting Tender (NNITENDER) on ETS
- (e) Download Official Copy of Tender Documents from ETS
- (f) Clarification to Tender Documents on ETS
 - Query to BSNL (Optional)
 - View response to queries posted by BSNL, as addenda.
- (g) Bid-Submission on ETS
- (h) Attend Online Tender Opening Event (TOE) of Techno-commercial Part
- (i) View Post-TOE Clarification posted by BSNL on ETS (Optional) Respond to BSNL's Post-TOE queries
- (j) Attend Online Tender Opening Event (TOE) of Financial-Part (Only for Technical Responsive Bidders).

3) 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 CPPP.

(a) 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 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>].

(b) Registration:

To use the Electronic Tender® portal (<https://www.etenders.gov.in>), vendor needs to register on the 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.

On successful submission of Registration details. Please contact NIC Helpdesk as given below, to get your registration accepted/activated.

NIC HELPDESK	
Telephone No. (Toll Free)	0120-4001002, 0120-4001005
E-Mail I.D.	support-eproc@nic.in
BSNL CONTACT DETAILS.	
BSNL's Contact Person-1	ASST. GENERAL MANAGER (MM)
Telephone No.	0771-2281440 (Between 10:00 hrs. to 17.30 Hrs. on working days.)
E-Mail I.D.	agmmmcoryp@gmail.com

4) Method For Submission Of Bid Documents:-

The bid-submission shall be online on CPPP, however some documents mentioned below in clause 4.2 are to be submitted physically offline as follows:

4.1 Online submission: (as per Clause-2& 10 of Section-4 Part-A)

Sl.No	Contents of 1 st Electronic Envelope	Contents of 2 nd Electronic Envelope
01	The documents listed in Clause 3 of Section-2	(1) Original Price Schedule (BOQ) as per Section-9 Part-B. (Download Price Schedule (BOQ) in XLS format, duly fill in the required details & upload)

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 format file***

- Utmost care may be taken to name the files / documents to be uploaded on CPPP. These should be no special character or space in the name of file. Only underscores are allowed. The illustrative examples are given below:-

FileName	Allowed or not allowed in CPPP	Reason for allowed/not allowed
QACertificate	Not allowed	Space in between words/characters not allowed
QACertificate(l)	Not allowed	Special characters not allowed.
QA_Certificate	Allowed	Under Score allowed between words/characters.
QACertificate	Allowed	Upper & Lower case allowed

- It is advised that all the documents to be submitted as per Clause 2 & 10 of Section-4 Part-A of bid document are kept scanned or converted to PDF format in a separate folder on your computer before starting on-line submission.
- The names and total size of each document (preferably below 50MB) may be checked before uploading.

4.2 Offline Submissions:-

The bidder shall submit the following documents offline AGM (MM), Room no. A-109, O/o CGMT, BSNL, CG Telecom Circle, Admin Bldg. Khamardih, Shankarnagar, Raipur-492 007 (CG) on or before the date & time of submission of bids specified in tender, in a Sealed Envelope. The envelope shall bear the tender name, the tender number and the words 'DO NOT OPEN BEFORE _____' (due date & time).

- (a) EMD-Bid Security (Original copy) (As per proforma given at 7(A) of Section-7).

- (b) DD/Bankerscheque-drawninfavorof" The AO(A&B) O/o CGMT,CG CIRCLE BSNL RAIPUR",against payment of tender fee).
- (c) Power of attorney in accordance with clause14.3 of Section-4Part-A(Original ink signed copy)(As per proforma given at7(D) of Section-7).
- (d) MSME Certificate, if the bidder is claiming concession for bid cost and bid security.

Note:-The Bidder has to upload the Scanned copy of all above said documents during Online Bid submission also.

5) Special Note On Security Of Bids:-

Security related functionality has been rigorously implemented in ETS in a multi-dimensional manner.Starting with'Acceptance of Registration by the ServiceProvider',provision for security has been made at various stages in Electronic Tender's software.

6) OnlineTender Opening Event (TOE):-

CPPP offers a unique facility for 'Online Tender Opening Event (TOE)'. TENDER Opening Officers as well as authorized representatives of bidder scan attend the OnlineTender Opening Event (TOE).

Every legal requirement for a transparent and secure 'Online Tender Opening Event (TOE)' has been implemented on CPPP.

- (a) The bids will be opened in 2 stages i.e.(i)Techno-commercial bid&(ii)Financial bid.The techno-commercial bid shall be opened on the date of tender opening given in DNI tender. Normally, the financial bid will not be opened on the date of opening of techno-commercial bids, however decision of BSNL in this regard, will be final and binding on all the bidders.
- (i) As soon as a Bid is decrypted by the TOC, the documents will be opened from the Techno-commercial bid one by one and the same report of TOC will be uploaded on e-tender portal.
- (ii) Thereafter the TEC will evaluate Techno-commercial bids and the report of TEC will be approved by competent authority and the same report of TEC will be uploaded one-tender portal of techno-commercially compliant bidders for information of financial bid opening.
- (iii) 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.

- (b) Deleted

7) Price Schedule/BOQ (Bill of Quantity):-

Ut most care may kindly be taken to upload Price Schedule/ BOQ (Section-9 Part-B). Any change in the format of Price Schedule/BOQ file shall render it unfit for bidding.Following steps may be followed:-

- (a) Download price schedule/BOQ in XLS format.
- (b) Fill rates in down loaded price schedule /BOQ as specified in XLS format only in White background cells.Don't fill in greyback ground cells.
- (c) BOQ file is password protected XLS file.Don't unprotect the file.Price has to be filled in the same file and has to be uploaded.
- (d) Save filled copy of down loaded price schedule/BOQ file in your computer and remember its name & location for uploading correct file (duly filled in) when required.

SECTION-5 PART-A

GENERAL (COMMERCIAL) CONDITIONS OF CONTRACT (GCC)

1. APPLICATION

Tenders are invited from reputed, qualified, experienced and financially strong Firms/Agencies for need based fault maintenance of OFC network of 12F/24F/96F/288F routes & other Works as defined in the Scope of Work in the tender at appropriate places. The maintenance activity mainly consists of:

Corrective maintenance of OFC routes

Collection of GPS coordinates and mapping them on MAP.

2. STANDARDS

The goods supplied / works under this contract shall conform to the standards prescribed in the Technical Specifications mentioned in Section-3 Part B.

Wherever the Technical specifications mentioned in Section -3 Part B in the document not specific about any items of work, the item shall be executed as per the provisions of BSNLE.I.

3. PATENT RIGHTS

The supplier/contractor shall indemnify the BSNL against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the goods or any part thereof in Indian Telecom Network.

4. 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 during this period.

5. SUBCONTRACTS:

The Contractor shall not sub-contract or assign any part or the whole of the work under the agreement or any Work Order(s) (wherever applicable).

6. INSPECTION AND TESTS:

BSNL's representative shall have the right to inspect the premises of the bidders.

Shall any inspected items/specifications fail to conform to the Specifications, BSNL may reject the bidder.

If any service rendered by the vendor is found defective or abnormal delay, the same shall be got 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.

Nothing in clause 4 shall, in any way, release the Supplier from any Warranty or other obligations under this contract.

7. SECURITY

i) EMD/BID SECURITY:

- (a) The bidder shall furnish a bid security of amount as specified in DNIT (Section 1 Part A).
- (b) The bid security is required to protect the BSNL against the risk of bidder's conduct, which would warrant the forfeiture of bid security pursuant to Para 12.8, Section-4 Part A.
- (c) The bid security shall be submitted in the form as specified in clause 5 of DNIT (Section-1 Part-A).
- (d) A bid not secured in accordance with Para 12.1, Section 4 Part A shall be rejected by the

BSNL being non-responsive at the bid opening stage and archived unopened on e-tender portal for e-tenders and returned to the bidder unopened (for manual bidding process).

- (e) The bid security of the unsuccessful bidder will be discharged /returned as promptly as possible and after finalization of the tender or expiry of the period of the bid validity prescribed in the bid.
- (f) The successful bidder's bid security (if any) will be discharged upon the bidder's acceptance of the advance Work Order satisfactorily and furnishing the performance security.
- (g) The bid security may be forfeited on following situations :**
 - (a) If the bidder withdraws or amends its bid or impairs or derogates from the bid in any respect during the period of bid validity specified by the bidder in the bid form or extended subsequently;or
 - (b) In the case of successful bidder,if the bidder fails
 - (a) To sign the contract in accordance with clause 27,Section 4PartA.
 - (b) To furnish performance security in accordance with clause7(iii).
 - (c) To furnish Material Security in accordance with clause7 (ii)of Section 5PartA.
 - (d) To follow the lawful instructions of BSNL Authorities or his representatives.

In both the above cases, i.e. (g), the bidder will not be eligible to participate in the tender for same item for one year from the date of issue of WO.

ii) Material Security:

- (a) The successful Bidder will have to deposit material security **3 %** of the value of approved tender cost subject to a **minimum of Rs 2 Lakhs** in the form of DD or BANK GUARANTEE in favour of "AO (A&B) O/o CGMT CG CIRCLE BSNL RAIPUR",payable at RAIPUR.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 biddocument as per proforma 7(I) of section 7. Material Security can also be submitted in the form of Crossed Demand Draft in favour of "AO (A&B) O/o CGMT CG CIRCLE BSNL RAIPUR" payable at RAIPUR issued by aschedule bank. The material Security will be a non interest bearing deposit, for any period whatso ever.
- (b) The contractor at any point of time will not be issued stores costing more than the material security. If due to any reason more store has to be issued to the contractor, then the material security will be suitably enhanced. In this regard the decision of the BSNL shall be final andbinding.
- (c) Proceeds of the material security shall be payable to the BSNL as a compensation for any loss resulting from the contractor's failure to handle properly the material issued to him under the contract.
- (d) The material security shall be released/ refunded within a fort night from the date of the payment of the last final bill of the work under the contract or final settlement of material account which ever is later on production of "no dues certificate"from "Engineer-in-charge".

iii) Performance Security:

- (a) Successful bidder shall furnish performance security to BSNL for an amount equal to **10%** of the value of approved tender cost within 14 days from the date of issue of letter of intent (LOI)/ Advance Work Order (AWO) by BSNL.

Submission of PBG of the required Value should be as per the Performa Attached at 7(B) of section 7orDD/Bankers Cheque in favour of"The AO(A&B) O/o CGMT, CG Circle BSNL RAIPUR"payable at RAIPUR(BANK GUARANTEE shouldbe valid **minimum for 18 months**).The proceeds of the performance security shall be payable to the BSNL as

compensation for any loss resulting from the supplier's failure to complete its obligations under the contract.

- (b) The performance security Bond shall be in the form of DD/BANKGUARANTEE in favour of "The AO(A&B) O/o CGMT, CG Circle BSNL RAIPUR" payable at RAIPUR (BANK GUARANTEE should be of minimum **18 months**) issued by a Nationalized Bank.
- (c) The performance security Bond will be discharged by the BSNL after completion of the Bidder's performance obligations including any warranty obligations under the contract.
- (d) There is no exemption to MSE units/ bidders from submission of PBG and Material Security, which they will be required to submit, as applicable, if the tender is awarded to MSE units/bidders.
- (e) In case EMD is in the form of DD/Banker's Cheque & contractor wants to submit PBG in the form of DD/Banker's Cheque; PBG amount may be adjusted by appropriating the EMD amount & balance, if any, shall be paid by DD/ Banker's Cheque within 14 days from the date of issue of LOI. However no interest on PBG amount shall be payable by BSNL.

iv) DELETED

Note:- The proceeds of the performance security shall be payable to the BSNL as compensation for any loss resulting from the contractor's failure to complete its obligation under the contract. 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 documents. No interest will be paid to the contractor on the security deposit.

8. DELETED

9. ISSUE OF WORK ORDERS AND TIME LIMIT:

After approval of competent authority, the Work shall be carried out only after the work order is issued by MM cell, O/o CGMT, Raipur.

The BSNL reserves the right to cancel or modify the scope of work stipulated to be carried out against the work orders in the event of change of plan necessitated on account of technical reasons or in the opinion of work orders issuing authority about the contractor is not executing the work at the required pace.

10. EXTENSION OF THE TIME LIMIT:

General

In each work orders, the work orders 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 orders.

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.

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

There may be some hindrances, other than covered under force major, while execution of work and in such cases the contractor shall apply in writing in the prescribed Form (Part-A) to the engineer-in charge for extension of time (EOT), on account of which he desires such extension within three days of occurrence of hindrance. The Engineer-in charge shall forward the request to the competent authority with his detailed report and hindrance register, in the prescribed Form (Part B) within three 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.

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

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

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 compensation as per clause dealing with compensation for delays in execution of works. The extension of time with compensation charges shall be issued by the competent authority (Officer competent to grant the extension of time).

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 can not challenge the soundness of the opinion by reference to arbitration. The decision of the competent authority on DURATION of extension of time or refusal for extension of time shall be final and binding on the contractor.

The competent authority for EOT will be CGMT circle office RAIPUR or any officer authorized by him.

PERIODICITY OF AGREEMENT:

ONE year from the date of agreement; which will be further extendable by additional one year on the same terms and conditions, including Service Level Agreement (SLA) parameters. In this regard, decision of CGMT circle office RAIPUR will be final and binding. For the extension of contract by additional One year, the bidder will have to submit security Deposit /PBG applicable for the approved value of tender and the same shall be valid for a minimum period of 18 months from the date of commencement of extended period.

11. MEASUREMENT, INSPECTION, TESTING AND ACCEPTANCE TESTING (AT)

Measurement:

The Measurement Books/ Work Diary 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.

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% of measurements. The Sub Divisional Engineer where Junior Telecom Officer is supervising officer shall be responsible for conducting test check of 50% of measurements. The Divisional Engineer shall be responsible for conducting test check of 10% of measurements.

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.

Method of measurements: The measurements of the work shall be done for activity wise 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 100 meters length bounded by identifiable landmarks at both the ends of the segments. If landmarks are not available, length of segment may be maintained at 100 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 175 meters, the POMs shall be at 0 M, 10M, 20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M, 110M, 120M, 130M, 140M, 150M, 160M & 170M. The last POM shall be at 175th 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.

If the contractor does not meet the specification of trench as per tender terms and conditions straight Rs.150/meter will be deducted from the monthly bills.

Measurement of lengths 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 cable. 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 sheet provided in the measurement book 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.

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, than 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.

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 be passed only when he is 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 10% of the cable laying work.

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.

Inspection and Quality Control:

- a. State of the art technology shall be used. Quality control through Acceptance Test (AT) shall be done by BSNL from time to time. BSNL reserves the right to carry out sample checks. Shortcomings/deficiencies noted shall be attended by contractor within 15 days and intimated to BSNL for re-verification.
- b. Payment shall be linked to Acceptance Testing (AT).
- c. Quality will also be controlled through BSNL.
- d. Contractor will ensure incorporation of sufficient safety clauses.

The Quality of Works: The importance of quality of Optical Fiber Cable maintenance works cannot be over-emphasized. The quality and availability of long distance media and efficiency of the reliable media connectivity to exchanges depends upon the quality of laying of Optical Fiber Cable. Further, the OF cables are vulnerable to damages due to work of other agencies. The quality of O.F. cable Plant depends upon the quality of individual items of work involved viz Depth of Cables laid, care while paying & laying, Protection, Jointing of Cables and Terminations in equipment room and at last but not the least on documentation of cable network. In order to ensure quality in Cable Construction Work, each component of work needs attention. The works shall be carried out strictly in accordance with specifications laid down to achieve the requisite quality aim. It is imperative that the contractor(s) is/are fully conversant with the construction practices 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 work is 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 site incharge for Acceptance and Testing.

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). In addition to Acceptance Testing being carried out by site incharge and supervision by Construction Officers, all works at all times shall be open to inspection of the BSNL. The contractors shall be bound, if called upon to do so, to offer the works for inspection without any extrapayment.

Site Order Book: The site order book is one of the primary records to be maintained by the JTO 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 BSNL in the Site order book. The site order book is to be maintained in the prescribed format. 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.

Testing and Acceptance Testing:

The work shall be deemed to have been completed only after the same has been accepted by the site incharge of BSNL as per standard Engineering Instructions (EIs) issued by BSNL. The contractor shall make test pits at the locations desired by site incharge for conducting test checks without any extrapayment. 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.

Scope of Acceptance and Testing : The purpose of acceptance and testing is to verify integrity of measurement and quality of work done. The site incharge shall not be responsible for recording of measurements for the purpose of billing and contractual obligations. However if the measurements taken by site incharge are found to be lesser

than the measurement recorded by the officer responsible for recording the measurements. The measurement taken by site incharge 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 removed effects/deficiencies pointed out by the site incharge without any additional cost to the BSNL.

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 site incharge 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.

The contractor shall provide labour, if demanded by the site incharge 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.

12. WARRANTY

All material supplied/used and the work/service rendered by the Contractor shall be guaranteed against the defective workmanship for a period of six months from the date of completion of the contract. The contractor shall make good of the defects within one month after intimation by the designated officer of BSNL failing which penalty amount as mentioned in clause 18 shall be recovered.

13. AUDIT AND TECHNICAL EXAMINATION:

BSNL shall have the right to cause an audit and technical examination of the work by the agency authorized by BSNL or by Chief Technical Examiner, Govt of India, 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 over paid 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 Government 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 it, the amount of such under payment shall be duly paid by Government to the contractor.

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 (DGM/TDM/SE (Civil)) or his subordinate officer.

Any sum of money due and payable to the contractor (including security deposit returnable to him) under this contract may be appropriate by the BSNL for the payment of a sum of money arising or under any other contract made by the contractor with the BSNL

14. PAYMENT TERMS:

Procedure for Preparation and settlement of bills:

“Contractor has to submit two separate invoices one for BTS maintenance SLA work and second for OFC maintenance work on need/ Fault basis”

- a) Payment will be made on satisfying that the work is done as per the agreement. The following documents with Invoice shall be submitted by the contractor for releasing payments by BSNL.
 - i) Invoice for the month in triplicate along with there levant work order.
 - ii) Detailed list of Man days engaged during the month

- iii) Proof regarding payment of EPF/ESI contribution for that month to the respective authorities.
 - iv) Work Diary.
 - v) Certificate related with no BSNL person employed by him during the contract period.
 - vi) Certificate regarding wages paid by the contractor to all labors employed to execute work.
- b) The concerned officer will scrutinize the invoice and other documents submitted by the contractor and forward the same to AO (Claim),O/o the CGMT,Circle office,Raipur for arranging payment along with recovery details.Payment will be made after deducting the penaltiesas applicable.
- c) Deleted.

Note:-

- Invoices shall be completed in all respects and should be accompanied with the Details of Wage Sheet, Copy of EPF, ESIC. And other statutory compliances.
- The contractor shall ensure that the GST is also paid well in Time as per the prevailing GST rules. Any loss of ITC will be duly recovered from the contractor.
- Necessary deductions like TDS, Labor Welfare Cess/any other levy by the Government/Company and other penalties as approved will be deducted from the invoices.
- Each Invoice submitted shall be accompanied with an Undertaking from the contractor that“ I hereby Undertake take that in case of any excess payment being made to me under this contract or any penalty is found at the at any stage or even after the tender is exhausted/Finished/terminated; I shall be Liable to pay the amount to BSNL and The BSNL also Shall have full right to recover such amount from any of my pending payments across Pan India.
- Payment will be released subject to availability of funds. Payment of wages shall not be linked with bills payment. Whereas no interest will be claimed on the delay payment on any grounds.
- No payment will be made for the goods /work received in less quantity, damaged / faulty condition.
- Any recovery pointed out by audit will be directly deducted from bills/ Security deposit.
- Payment will be made through NEFT/RTGS/through Online banking system and if any Bank Charges are levied the same are to be borne by the Contractor.

14.1 Procedure for Preparation and settlement of OFC Route Maintenance bills:

- (a) The contractor shall prepare the Monthly billsfor the SLA based maintenance activity intriplicate ensuring execution work in its Completeness (requisite documentation), correctness of rates and quantum of work and submit the bills to Engineer-in-charge of work.The Engineer- in-charge shall record the certificate of performance on the Monthly bill after scrutinizing the billsand submit the Monthly bills along with the documents as mentioned below to the Divisional Engineer,in-charge of work.Divisional Engineer shall exercise the prescribed checks on the bills and accord necessary certificates of the bills.The Divisional Engineer shall retain the third copy along with photocopies of documents and record it in the estimate file maintained in his office and sendfirst and Second copies with all documents to relevant higher office for processing of bills and release of payment.
- (b) The official dealing with bills payment shall process the bill of the work and scrutinize the bills vis-à-visFault record register and certificates by field in charge, sanctioned provisions in the estimate etc. The bill shall be passed, after necessary scrutiny . Statutory taxes (Income Tax etc.) applicable to contract shall be deducted at the time of payment from each Monthly bill.
- (c) Deleted.

Procedure for Preparation and settlement of OFC improvement / New works

(where separate work order is issued)

- (a) The work order issued may contain work to be executed in many patches of various natures as mentioned in SOR. 100% payment will be paid after completion of Patch work subject to commissioning of patch work and put to use to carry traffic on certification of BSNL Site-engineer.
- (b) Liquidated damages (LD) @ 0.5% per week subject to maximum of **20 %** of the value of the work will be levied beyond the time limit mentioned in the work order.
- (c) All material supplied/used and the work done by the contractor shall be guaranteed against the defective manufacture/workmanship for a period of 12 months. Cost of such defective material shall be recovered from subsequent bills or from P.B.G amount held (in case validity of contract is over).
- (d) The contractor shall prepare the final bill in triplicate & submit the same to Engineer-in-charge of work within **30 days** of final acceptance and commissioning. The final bill shall be prepared for all items involved in execution of complete Patch work as per point no 1 above. The contractor shall prepare the final bill containing the following details:
 - a. The bill for all the quantities as per Measurements at the approved rates
 - b. Adjustment of performance security deposit and statutory taxes already recovered.
 - c. 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 of work.
 - d. Letters of grant of E.O.T(s). If work could not be completed within stipulated time.
 - e. Copy of Measurement book
- (e) The officer concerned shall scrutinize the final bill against the works entrusted and in accordance with specifications and terms and conditions of the contract. The Engineer-in-charge shall verify the quantities of items of work with reference to measurements recorded in the measurement. The officer in-charge of work shall submit the final bills, along with other documents mentioned above, with the documents as mentioned hereunder to the Divisional Engineer, in-charge of work.
 - (i) Bill prepared by the contractor.
 - (ii) Material reconciliation statement.
 - (iii) Measurement book.
 - (iv) Details of recoveries/penalties for delays, damages to BSNL/Third party properties as per provisions of the contract. In case no recovery is to be made. NIL report needs to be submitted.
 - (v) Details of empty cable drums cost which needs to be recovered from the bill.
- (f) Deleted.
- (g) The official dealing with OFC bills shall process the bill in their relevant file of the concerned work and scrutinize the bill vis-à-vis work order issued sanctioned provisions in the estimate etc. The officer concerned shall also scrutinize the bill to recover all the liabilities of the contractor and statutory taxes.
- (h) Deleted.

Procedure for payment for sub standard works:

- (a) 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.

- (b) Timely action by Construction Officers: Timely reporting and action, to a great extent, can prevent occurrence of sub standard work, which will be difficult or impossible to rectify later on. It is incumbent on the part of construction Officers 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 i.e. respect of defective works 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 sub standard item of work and also define a time period within which such rectification/removal/replacement has to be done. After expiry of the notice period, if the contractor fails to rectify/ remove/replace the substandard item, the defect shall be got rectified/replaced/removed by BSNL or through some other agency at the risk and the cost of the contractor.
- (c) Non-reporting of the substandard work in time on the part of Construction Officer(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 can not be absolved of the responsibility for sub standard work and associated liabilities.

(d) Authority and procedure to accept substandard work and payment there of:-

There may be certain items of work pointed out as sub standard which may be difficult to rectify and in the opinion of the BA HEAD the items in question will not materially deteriorate the quality of service provided by the construction, BA HEAD shall appoint a 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 WORK involving sub standard items of work, as Chairman and one S.D.E. 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 sub standard work, which shall not exceed 60% of the approved rates of the item in question.

- (e) Record of sub standard work: The items adjudged, as sub standard shall be entered into the measurement book with red ink.

14.2 Procedure for Preparation and settlement of BTS SLA bills : BSNL has implemented BOMS (BTS Outsourced Management System) for centralized billing and monitoring of the BTS sites maintenance such as fault docket booking, SLA penalties calculation's, electronic invoice etc. BOMS is developed for managing the complete outsourcing process of the maintenance of BTS. System will be handling all the processes commencing from Tender details entry to Digital Invoice payments. Bidders must comply the BSNL's instructions issued time to time regarding BOMS process. Till implementation of BOM regarding generation of invoice by system , the procedure of manual submission as detailed out above in case of OFC claims shall follow .

15 DELAYS IN THE CONTRACTOR'S PERFORMANCE:

Delay in performance of services shall attract penalty for the Contractor in accordance with the section 3 part-A.

16 SHORT CLOSURE OF TENDER:

One Month Notice in case Work is not executed by the contractor as per Terms & Conditions

OR

Government OR BSNL"s policy changes

OR

Any public interest at large is adversely affected

OR

Any other reason by BSNL

17 DISPOSAL OF EMPTY CABLE DRUMS:

The contractor shall be responsible to dispose off the empty cable drums after laying of the cable The competent authority taking in to account the prevailing market rates has fixed the cost of Optical Fiber cable drums. The cost of empty cable drums will be **Rs.495/-** per drum, which 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.

Rates fixed for Optical Fiber cable drums are given in Tender Document. The rates are fixed and there is no percentage above or below applicable on these rates.

The contractor shall be responsible for the accounting of the cable drums issued and shall mention the number cable drums in the bill so that the amount is deducted from the bills due. The contractor shall not be allowed to dump the empty cable drums in Govt. /public place, which may cause in convenience 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 BA Heads/GM BA s from the bill/security deposit/any other amount due to the contractor.

The cost of empty OFC drum to be recovered shall be **Rs.495.00**.

18 PENALTY CLAUSE:

This para

is applicable for individual work order as well as contract as a whole.

Penalty on SLA Parameters: Schedule-C

Table 18.1

Sl. N O.	Parameter	Limits	Amount of penalty in Rs.	Remarks
1	Splice loss per fiber	Less than 0.1 dB	Rs. 2000 per joint per occasion	Apart from Penalty, the Agency is responsible for bringing splice loss ≤ 0.1 dB at his own cost within 7 days.
2	Mean Time to Repair (MTTR) OFC cuts	< 4 Hrs	Rs. 1000 for next 4 hrs. and Rs. 5000 for each additional 8 Hrs.	1. Mean Time To Repair (MTTR) shall be monitored on the time taken between logging of complaint against the network and its closure. 2. The Outsource Agency has to maintain an MTTR of 4 Hrs (Excluding night Hrs from 08:00 PM

				to 06:00 AM for the first night only, if the fault occurred between these duration for attending the faults.)
3	Submission of diagram with marking of joint pits, fixing of route/joint indicators	Within 3 days of the fault rectification	Rs. 1000/- per day subjected to maximum of Rs. 5,000/-	
4	All fibers through condition	All working and spare fibers should be through at all times as made over	For working fibers break, penalty applicable as per above and for spare fibers break, Rs.1000/- per day per fiber for each fiber break not attended within the specified time of Nodal officer.	

Note:- For S.No. 8 of above PANALTY table,Route ID wise penalty will be deducted from the monthly bill for non maintaining monthly average up time at 99% for minimum of 95% of Digital Link/Equipment/Services parented to that RID due to OFC fault. This penalty will be additional to Over all Penalty Limit of 25% as mentioned at (XV) below - Deleted

- (i) The maximum restoration time is response time plus travel time including time for localization and restoration. In case contractor fails to complete the restoration of network link (either temporary or permanent as the case may be), BSNL has a right to impose penalty of Rs 5,000/- per cut as detailed below-

Table 18.2

CASE	Period of contract	Duration of fault
A	Initial 3 months of contract	Beyond 4 hours
B	From 3 months to 6 months	Beyond 6 hours
C	After 6 months	Beyond 5 hours

- (ii) For the purpose of penalty only 1 (ONE) cuts per month in entire route will be allowed and will be the bench mark. If numbers of cuts exceed this figure, a penalty of Rs 5000/- per cut shall be imposed and recovered from contractor except in case of rodent and termite fault with due certification from site engineer. **However in order to let contractor become familiar with the route; penalty shall be exempted upto seven cuts per route per month for the first quarter.**

- (iii) If monthly average up time of the minimum 95% Parented DL/Equipment/Services is maintained at or above 99.5% in a FRT, an additional incentive of 3.5% of FRT wise monthly billing will be given to the vendor.

- (iv) The MTTR time will be calculated from the time either the Contractor/supervisor or repair team is informed about the fault up to the time of restoration of end-to-end traffic after rectification of OFC cut(s)/fault(s) including the traveling time. The contractor or supervisor/repairing team can be informed via SMS/voice calls/whatsapp/email or via any other communication means available at that point of time. The Repair time of any fault occurred shall be calculated by collecting data from respective multiplexer station of BSNL. Any pending restoration of link on account of BSNL shall be certified by Engineer-in-charge and should not be counted in outage time due to contractor.

- (v) If the splice loss of all the fibers are not within the prescribed limit, the contractor has to re-

do the splice till the value is achieved(lessthan0.1dbperslice) failing which BSNLwill carryout the work by itself deducting Rs 6000/-perfault from the monthly bill.

- (vi) If the splice loss of all the fibres are not within the prescribed limit, the contractor has to re-do the splice till the value is achieved(lessthan0.1dbperslice)/failingwhich BSNLwill carryout the work by itself deducting Rs 6000/-perfault fromthe monthlybill.
- (vii) In no case the Engineer shall be held responsible for the delay in restoration except for the instance of making avail ability of requisite materials for restoration.
- (viii) For below mentioned supply item, in case of non supply a penalty of 0.5% of the PO value per week, beyond the specified delivery period, maximum penalty limited to 25% of the POvalue.- **Deleted**

1	SupplyofSJC/BJC
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- (ix) **Trenching penalty:** Ifthe contractor does not meet the specification of trench for relaying orrepairing of existing route for restoration of faults , at the required depth as per tender term and conditions,a penaltyof Rs150/meter will be deducted from the monthly bills.
- (x) **Jointing penalty:**If contractor or bidder does not make joints as per standard and specifications of tender term and conditions (eg. Criss Cross of Fiber or bad work manship), a penalty of Rs 2,500/- per joint will be deducted from the monthly bill in addition of rectifying fault free of cost.
- (xi) **Third Party Damage:** If the bidder damages other Private Service provider’s cables /sewageline/Government or public properties, such as electricity cable or road setc,the damage charges/penalty will be paid by the contractor as per the claim of such third party. BSNL will notbe liable to pay any penalty or any damage charges made by the contractor as per the indemnity clause below:

“Contractor shall either pay to third parties all expenditure incurred for restoring services which are damaged by Contractor while carrying out the work or the same amount will be deducted from his bills. Such expenditure shall be intimated to Contractor either by Engineer-in-charge or concerned third parties in writing. The amount deducted by the Contractor from his bill shall be paid to concerned third parties by Divisional Engineer or Accounts Officer.”

(xii) Penalty for causing inconvenience to the Publicin case of OFC improvement work:

- (a) To ensure progress during the execution of work and to cause minimum inconvenience to thepublic, the contractor shall not dig a trench of more than 500 meters at a stretch in a route at a time. He shall cause to lay cable and close such trenches expeditiously. Under any circumstancesa stretch of trench of maximum 200 meters shall not be kept open for more than a day in case ofcable laying by digging paved surfaces. In the event of contractor falling to comply with, theseconditions, a penalty of recovery up to Rs 300/- per day for the period the trench is kept openbeyond the time limit allowed may be imposed by the BSNL. This penalty will in addition to thatpayablefor delayor slowwork.
- (b) Penalty for cutting/damaging the existing cables of BSNL and the existing underground facilities of third parties: -
- (c) 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 running bills:-

Table 18.3

Sl. No.	Size of Cable to be replace in pairs	Damagechargesas prescribed in circulardated 6.10.2003	Cost of additional copper cable For each slab of 10meter. (Variable Cost in Rs.Per slab of cable of length10meter)

		(a)	(b)
1	5	7,500	4,500
2	10	7,500	5,000
3	20	7,500	5,000
4	50	10,000	5,500
5	100	10,000	6,000
6	200	20,000	7,000
7	400	20,000	11,000
8	800	40,000	13,000
9	1200	75,000	17,000
Size of existing OFcables cut/damaged		Amount of penalty per cut/damage/Occasion	
O.F.Cable of any size		Rs.1,50,000.00(OneLac Fifty thousand)	

- (d) 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.
- (e) 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.
- (f) Penalty for cutting/damaging the old Pipeline/Cable/OF Cable of other Agencies:
 In case of the damage to Pipeline/Cable/OF Cable of any other Agency/Authority (other than BSNL) during excavation of trench, the Contractor will be responsible to pay on demand any Damage charges/Repair Charges levied by such Agency/Authority on BSNL and same will be recovered from the monthly bill of the contractor. Any legal case arising out of this, the contractor is held solely responsible.
- (xiii) Penalty for non establishment of FRT as per Tender document: A penalty equivalent to 10% of the Work Order value will be deducted from the respective bills in case of non Establishment of FRT as per the Tender Document.**
- (xiv)** Penalty for late submission of Bills: If bill is not submitted in time, a penalty of 1.0 % of the bill amount per completed week shall be deducted as record upkeep charges.
- (xv) Overall limit of penalty:** Maximum penalty in any given month will be limited to maximum 25% of the monthly billed amount. However the penalty/ deduction for maintaining Up Time of OFC Route (S. No. 8 of Table 18.1 above) will be over and above the maximum 25% capping limit.

Failure Clause:

If contractor fails to perform even after imposition of penalty, his work can be given to any other contract or willing to perform at the approved rate of BA.

Withdrawal of work:

The work will be withdrawn with relevant penalty decided for due payment in case of non-performance with 15 days notice inform of letter, SMS, e-mail and Whatsapp, etc.

19 TERMINATION FOR DEFAULT:

19.1 (i) BSNL may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the Contractor, terminate this Contract in whole or in part-

- a) If the Contractor fails to render services within the time period(s) specified in the Contract or any extension thereof granted by BSNL.
- b) If the Contractor fails to perform any other obligation(s) under the Contract; and
- c) If the Contractor, in either of the above circumstances, (s) does not remedy his failure within a period of 30 days (or such longer period as BSNL may authorize in writing) after receipt of the default notice from BSNL.

(ii) In the event, BSNL terminates the contract in whole or in part, pursuant to Para 19.1, BSNL may get the services from any other source as it deems appropriate, the Contractor shall be liable to BSNL for any excess cost for such services. However, the Contractor shall continue performance of the contract to the extent not terminated.

(iii) In the event of prosecution for any offence of directors/partners/ of the Contractor or of the Contractor.

(iv) If the Contractor enters into an arrangement or composition with its creditor(s) or if a Receiver of the Contractor's property or any part thereof, is appointed.

(v) If a petition for winding up is presented in any Court against the Contractor, it being a limited company, or a resolution is passed to wind up the business of the Contractor or if a Receiver is appointed for any part of the Contractor's property.

(vi) If the Contractor or makes false claim(s) towards charges, commission, incentives, refunds, credits, warranty claims or submits false financial information/reports or any other data including but not limited to the Services, reports or maintenance required by BSNL.

(vii) If the Contractor fails to obtain or maintain any license/approvals or the suspension or revocation of any license/approvals necessary for the conduct of the business of the Contractor pursuant to the Agreement.

(viii) If the Contractor commits any violation of any laws, rules or regulations of the land.

(ix) If the appointment or continuance of the Contractor under the Agreement is likely in the sole opinion of BSNL to result in a loss of good will or reputation of BSNL.

(x) The Agreement be terminated by BSNL in the manner prescribed in clause 19.1(i) above; BSNL will reimburse the Contractor, the pro-rated Charges for the Services provided by the Contractor till the date of termination, as specified in **Work Order**. In such case, the value of approved materials utilized at site, the certified and accepted work done till the date prior to such termination shall become the sole and exclusive property of BSNL.

19.2 BSNL may also terminate any Work Order (if applicable) here under upon written notice of fifteen (15) days to the Contractor/vendor without any liability, if the Contractor is in breach of any material obligations contained in the relevant Work Order. For the avoidance of doubt, the termination of any individual Work Order shall not amount to automatic termination of the Agreement or any other Work Order(s) that may be issued by BSNL.

19.3 It is agreed by both the Parties that termination of this Agreement or any Work Order(s) by BSNL, does not relieve any Party from any rights and / or liabilities arising prior to such termination. Failure of BSNL to exercise a right in connection with a termination event shall not be construed as a general waiver of its right under this clause.

Termination in pursuant to clause 19.1 (i) to (x) and clause 19.3 above, shall be without prejudice to other rights of BSNL available under law or contract.

Either party may terminate this Agreement or any Work Order here under without any liability if so required by any government authority with jurisdiction over the Party and the subject matter of this Agreement; provided however that the Party with standing with the governmental authority shall assert all reasonable challenges, including litigation, to prevent or reverse any such requirement.

The Contractor undertakes that on termination of this Agreement it shall have no lien over the materials, equipments, designs, plans related to OFC, etc., of BSNL that are under its custody and shall handover possession of the same to BSNL.

The Contractor shall on termination of the Agreement, immediately hand over or destroy all Confidential Information on BSNL in its possession (irrespective of its form) to / before BSNL's representative to his satisfaction.

The Contractor shall provide its full co-operation and assistance to BSNL to enable a smooth transition of the work to any other contractor of BSNL's choice or as the case may be.

20 TERMINATION FOR INSOLVENCY:

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 BSNL.

21 INDEMNITIES:

The contractor shall at all times hold the BSNL harmless and indemnify from against all action, suits, proceedings, works, cost damages, changes claims and demands of every nature and descriptions, brought or procured against the BSNL its officers and employees and forthwith upon demand and without protect 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 contractor's 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 protect 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.

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.

Contractor shall either pay to third parties all expenditure incurred for restoring services which are damaged by Contractor while carrying out the work or the same amount will be deducted from his bills. Such expenditure shall be intimated to Contractor either by Engineer-in-charge or concerned third parties in writing. The amount deducted by the Contractor from his bill shall be paid to concerned third parties by Divisional Engineer or Accounts Officer.

22 FORCE MAJEURE:

If, at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any

war or hostility, act of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockout or act of God

(here in 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 claim for damages against other in respect of such non-performance

or delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such an event comes to an end or ceases to exist, and the decision of the Purchaser as to whether the deliveries have been so resumed or not shall be final and conclusive. Further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reasons of any such event for a period exceeding 60 days, either party may, at its option, terminate the contract.

Provided, also that if the contract is terminated under this clause, the Purchaser shall be at liberty to take over from the Supplier at a price to be fixed by the purchaser, which shall be final, all unused, undamaged and acceptable materials, bought out components and stores in course of manufacture which may be in possession of the Supplier at the time of such termination or such portion thereof as the purchaser may deem fit, except such materials, bought out components and stores as the Supplier may with the concurrence of the purchaser elect to retain.

23 ACTION BY PURCHASER AGAINST BIDDER(S)/VENDOR(S) IN CASE OF DEFAULT.

- (i) Failure to deliver and/or commission any or all of the goods within the time period(s) specified in the contract, or any extension thereof granted by the purchaser.
 - (ii) Failure to perform any other obligation(s) under the Contract; and
 - (iii) Or any other default whose complete list is enclosed in Appendix-1 of Section-4, Part-A;
- Purchaser will take action as specified in Appendix-1 of Section-4, Part-A.

24 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 here to or their respective representatives or assignees, in connection with construction, meaning, operation, effect, interpretation of the contract or breach thereof which parties are unable to settle mutually, the same shall be referred to Arbitration as provided hereunder.

A party wishing to commence arbitration proceedings 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.

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 one from the list who will be appointed as sole arbitrator by BSNL)
Above Rs. 5 crores	3 Arbitrators	One arbitrator by each party and 3 rd arbitrator, who shall be the presiding arbitrator, and the two arbitrators. BSNL will appoint its Arbitrator from its panel.

- 25** Neither party shall appoint its serving employee as arbitrator.
- 26** 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 enovo.
- 27** Parties agree that neither party shall be titled for any pre-reference or pendent-lite interest on its claims. Parties agree that any claim for such interest made by any party shall be void.
- 28** Unless otherwise decided by the parties, Fast Track procedure as prescribed in Section 29 B of the Arbitration Conciliation Act, 1996 for resolution of all disputes shall be followed, where the claim amount is upto Rs. 5 crores.

29 Fast track procedure–

- (1) Not with standing 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 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 29A 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)
Upto 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 BA Headquarter (as the case may be).
- (10) Subject to the aforesaid conditions, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof shall apply to the arbitration proceedings under this clause.
- I. In the event of any dispute or difference relating to the interpretation and application of the provisions of the contracts, such dispute or difference shall be referred by either party for Arbitration to the sole Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary, whose decision shall bind the Parties finally and conclusively. The Parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator.

Further, with regard to already signed/existing contracts, existing Arbitration clause for sole arbitrator can be invoked in case the parties waive, subsequent to disputes having arisen between them, the applicability of sub-section (5) of section 12 by an express agreement in writing.

II. 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 Court 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.

30 SET OFF

1. 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 set off 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, then GST would be levied.
2. It is agreed in case of set off 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.

31 Indemnity (TAX):

(A) It is the responsibility of the supplier to ensure that outward supply return (GSTR-1) is filed correctly and to declare correct information on the Invoice and GST portal.

In case of mismatch because of vendor's fault prompt amendments must be made by the supplier else supplier shall be required to indemnify BSNL of the loss of credit due to mismatch and BSNL shall recover the said amount from vendor. The compliance to be adhered by supplier includes (but is not limited to) the following:

- (i) Uploading appropriate invoice details on the GSTN (Goods and Service Tax Network) within the stipulated time.
- (ii) Issuing GST compliant invoice/ CN/DN. PO issued by BSNL should be referred by supplier for capturing information on the invoice.
- (iii) Acceptance of changes made by BSNL on GSTN on account of non-upload or incorrect upload details on GSTN. Such changes w.r.t the mis-match are required to be accepted by supplier within the time limit prescribed under the GST law. It must be noted that in case supplier does not accept such changes within the time limit prescribed under GST law, the loss of input tax credit (if any) would be recovered from the supplier.

BSNL reserves the right to be indemnified for the credit loss and recover the said amount from the supplier in case BSNL is unable to claim the input tax credit (ITC) for any non-compliance or default or due to lack of diligence on the part of the supplier. Further in case any error because of which no credit is received then such equivalent amount is not liable to be paid by BSNL. Where, However if the amount has already been paid by BSNL, the same is liable to be recoverable or adjustable against subsequent payments.

(B) It is hereby agreed between both the parties that in case any GST and /or cess liability, interest, penalties or any other tax/duty/amount/charge liability/professional costs related to litigation becomes payable by BSNL or input tax credit is denied to BSNL due to failure of the supplier to comply with the relevant laws / regulations applicable in India or overseas. Supplier undertakes to indemnify BSNL for an amount equal to amount payable by BSNL and the same shall be recovered by BSNL.

32 Tax Indemnity Clause: BSNL has the right to recover Input Tax Credit (ITC) loss suffered by it due to any mis-declaration on invoice by the supplier or due to any fault at/from contractor side.

33 COURT OF JURISDICTION:

Any dispute arising out of the TENDER/ bid document/ evaluation of bids/ issue of APO / AWO shall be subject to the jurisdiction of the competent court at the place from where the DN/TENDER/TENDER has been issued.

Where a contractor has not agreed to arbitration, the dispute/claims arising out of the Contract/ PO / WO entered with him shall be subject to the jurisdiction of the competent Court at the place from where Contract/ PO has been issued. Accordingly, a stipulation shall be made in the contract as under.

"This Contract/PO/WO are subject to jurisdiction of Court at RAIPUR only".

Note:- *Mandatory Licensing requirements with regards to security related concerns issued by the Government of India from time-to-time shall be strictly followed and appropriate clauses shall be added in all bid documents. Necessary guidelines in this regard shall be issued separately.*

34 APPOINTMENT OF OTHER AGENCIES FOR RE-EXECUTION:

In the event of the Contractor failing to perform its obligations as per agreed productivity

/quality norms of works and timelines as mentioned elsewhere in this Agreement and Schedules, BSNL after giving seven (7) days notice to the Contractor can get the work executed / re-executed through any other contractor / agencies as BSNL deems fit and proper at the costs and expenses of the Contractor. However that if the estimated cost for execution of such work is more than the proportionate Contract Price, the excess amount incurred by BSNL in this connection shall be recovered from the dues including the bank guarantee payable to the Contract or under this Agreement.

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41 DISPUTE RESOLUTION:

- (a) The Parties agree to cooperate and conduct in good faith such discussions and negotiations as may be necessary or desirable to amicably resolve any dispute which may arise between them.
- (b) If they are unable to resolve within twenty (20) working days of the relevant meeting of the Parties' senior representatives for whatever reason, then either party may refer such dispute to a sole arbitrator as appointed by BSNL. The arbitration shall be conducted in accordance with the Arbitration and Conciliation Act, 1996, as amended from time to time. The language used in the arbitral proceedings shall be English. Arbitration shall be conducted by a sole arbitrator.

The arbitral award shall be in writing and shall be **final and binding on each Party** and shall be enforceable in any court of competent jurisdiction. None of the Parties shall be entitled to commence or maintain any action in a court of law upon any dispute arising out of or relating to or in connection with the Agreement except for the enforcement of an arbitral award or as permitted under the Arbitration and Conciliation Act, 1996.

42 COMPLIANCE WITH LAWS:

The Contractor warrants that Services provided under the Agreement shall conform to all applicable laws, statutory rules and regulations including the surety and environmental norms as **per Government rules and regulations**.

Notwithstanding the generality of the foregoing, the Contractor shall comply with the following but not limited to the Workmen's Compensation Act, Minimum Wages Act, Employees State

Insurance Act, Employees' Provident Fund Act, Apprentices Act, Contract Labour Regulations & Abolition Act, and any/all other applicable statutes and all modifications thereof, in connection with manpower engaged by the Contractor. The Contractor shall keep intact with him all necessary documents in respect of payments towards Employees Provident Fund / Employees State Insurance Fund and under all other statutes as above and shall furnish the required documents to BSNL, within the specified time, as and when required by BSNL.

SECTION-5 PART (B)

SPECIAL (COMMERCIAL) CONDITIONS OF CONTRACT (SCC)

The Special (Commercial) Conditions of Contract (SCC) shall supplement General (Commercial) Conditions of Contract (GCC) as contained in Section 5 Part A and wherever there is a conflict, the provisions herein shall prevail over those in Section 5 Part A i.e. General (Commercial) Conditions of Contract (GCC).

1. General Requirements to be followed for the execution of works:

- a. The special conditions of contract shall supplement the Instruction to the Bidder & General (Commercial) Conditions of the Contract as contained and wherever there is a conflict, the provision here in shall prevail over those Sections.
- b. Bids shall be evaluated in accordance with clause 2. Section 4, part B.
- c. BSNL shall have the absolute right to award the work either per item of work or all items of work given in PRICE SCHEDULE of tender document, at its discretion. Whereas the bidders shall quote for all the items of the PRICE SCHEDULE of the tender document. Bidders quoting in partial for certain items only, will be summarily rejected. However the work will be awarded route wise/section wise to a single agency for all the items/selected items.
- d. The agreement shall be in force for a period of One year initially, which may be extendable by BSNL for a further period of up to one year on the same terms and conditions, including Service Level Agreement (SLA) parameters, in writing, with mutual consent.
- e. In the event of detection of any mala-fide actions on the part of the contractor, the works/ items of work assigned to the contractor shall be withdrawn at any point of time, in full or in part, even during the currency of the contract, without notice.
- f. BSNL reserves the right to disqualify such bidders who have record of not meeting the contractual obligations. BSNL also reserves the right to blacklist a bidder for a period of 2 years in case, if he fails to honour his bid without sufficient grounds.
- g. BSNL will evaluate and judge the performance of the contractor based on the overall execution of the contract and in particular on meeting the parameters. BSNL may award further works to the contractors based on the achievement of SLA parameters over a period of time.
- h. The terms and conditions of the contract are subject to modification by mutual agreement based upon the request of BSNL. In case of no agreement being reached in such case, BSNL reserves the right to terminate the contract as per the provisions of the contract.

2. SCOPE OF WORK: The scope of work is detailed in **Section 3 part-A.**

3. LABOUR WELFARE MEASUREMENT AND WORK MAN COMPENSATION:

a. Obtaining License before commencement of work:

- b. The contractor shall obtain 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 provision of this contract arising out of the resultant non-execution of work.

c. Contractors Labour Regulations:

(i) Working Hours

Normally working hours of an employee should not exceed 8 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 8 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 workers 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 or rest, the worker shall be entitled to rest day wages, 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 over time rate.

(ii) 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 India languages spoken by the majority of the workers, giving the minimum rates of the wages fixed under Minimum Wages Act, the actual wages being paid, the hours of work for which such wages are earned, wages periods, dates of payments of wages and other relevant information.

(iii) Payment of Wages:-

The contractor shall fix wage period in respect of which wages shall be payable. No wage periods 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 or to other person authorized by him in this behalf. All wages shall be paid in current coin or currency or in both.

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 1956.

A notice showing wage 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.

It shall be the duty of the contractor to ensure the disbursement of wages in presence of the site Engineer or any other authorised representative of the Engineer-in-charge who will be required to be present at the place and time of the disbursement of wages by the contractor to workmen

The contractor shall obtain from the site Engineer or any other authorised 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.....

(iv) Fines and deductions which may be made from wages

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

Fines:-

- 1) 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.
- 2) 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.
- 3) Deduction for recovery of advances or for adjustment of over payment of wages, advances granted shall be entered in a register. Any other deduction, which the Central Government may from time to time allow.
- 4) 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.
- 5) 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) Every fine shall be deemed to have been imposed on the day of the act or omission in respect of which it was imposed.

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.

Register of accidents-

The contractor shall maintain a register of accidents in such form as may be convenient at the workplace but the same shall include the following particulars:

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

- B. The contractor shall maintain a **Register of deductions for damages or loss** in Form XX of the CL(R&L) Rules1971.
- C. The contractor shall maintain a **Register of Advances** in Form XXIII of the CL(R&L)Rules1971.
- D. The contract or shall maintain a **Register of Overtime** inFormXXIIIof the CL(R&A)Rules1971.

Attendance card-cum wage slip-

The contractor shall issue an Attendance card cum wages lip to each workman employed by him.

- (a) The card shall be valid for each wage period.
- (b) 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.
- (c) The card shall remain in possession of the worker during the wage period under reference.
- (d) The contractor shall complete the wage slip portion on the reverse of the card at least a day prior to the disbursement of wages inrespect of the wage period under reference.
- (e) The contractor shall obtain the signature of thumb impression of the worker on the wage slip at the time of disbursement of wages and retain the card with him.

Employmentcard

The contractor shall issue an Employment Card in the Form XIV of CL (R&L) Central Rules1971toeach within three days of the employment of the worker.

Servicecertificate

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 Rules1971.

Preservation of labour records

The Labour records and records of Files and deductions shall be preserved in original for aperiod of three years from the date of last entries made in them and shall be made available forinspection by the Engineer-in-charge or labour officer or any other officers authorised by the Ministry of Communication in this be half.

Power of labour officer to make investigations or enquiry

The labour or any person authorised by the Central Government on their behalf shall have power to make enquires 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.

Report of investigating officer and action there on

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 bemade and the wages and other dues be paid to the labourers concerned. the Engineer in-chargeshall arrange payments to the labour concerned within 45 days from the receipt of the reportfrom the labour Officer or the authorized officer as the case may be.

Inspection of Books and Slips

The contractor shall allow inspection of all the prescribed labour records to any of his workersor 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 Governmenton his behalf.

SubmissionofReturns

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

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.

Compliance of Provisions of EPF Act 1952

The contractor will ensure compliance of Employees Provident Fund & Misc. Provisions Act 1952 & Employees Provident Fund Scheme 1952 in respect of labourers / employees engaged by him for performing the works of BSNL and ensure EPF deposit on or before due date. (Proof of Payment of EPF liabilities is compulsory)

Compliance of Provisions of ESI scheme

The contractor will ensure compliance of ESI in respect of labourers/ employees engaged by him for performing the works of BSNL and ensure ESI deposit on or before due date

4. INSURANCE:

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 under take to indemnify and keep indemnified the Government 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 the same or that the Government may suffer or incur with respect to end/or incidental to the same. The contractor shall have to furnish originals and/or Self - Self-attested copies as required by the department 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 there to which the department may require.

5. COMPLIANCE WITH LAWS AND REGULATION:

During the performance of the work 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 department 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 agencies engaged in the performance of the work specified in the contract documents. If the contractor shall require any assignee or sub-contractor to whom any portion of the work to be performed hereunder may be assigned, sub-leased or subcontracted to comply with the provisions of the clause and in this connection the contractor agrees as to undertake to save and hold the Government 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 subcontractor to make full and proper compliance with the said by-laws, Rules, Regulations, laws and order and provisions as afore said.

6. Paying authority shall be CSCO/o CGMT CG CIRCLE BSNL RAIPUR and details shall be indicated in PO/WO.

- a) Tender shall be processed and LOI shall be issued by MM CELL, CG CIRCLE RAIPUR.
- b) The Work Order on successful submission of PBG, shall be issued by MM Unit circle office, RAIPUR in SAP.

- c) The Agreement to be executed between contractor &BSNL shall be conveyed along with LOI based on terms and conditions of the tender.

7. Payment Terms & Penalties:

Payment Terms:

- a) The CONTRACT charges shall be paid by BSNL **on monthly basis** at the end of each month from the beginning of CONTRACT.
- b) This price is total composite inclusive of all levies and taxes, insurance and incidental charges etc. TDS shall be deducted before actual payment.
- c) Paying authority shall be CSC O/o CGMT CG CIRCLE BSNL RAIPUR.

The bidder has to give the mandate for receiving payment electronically and the charges, if any, levied by bank has to be borne by the bidder/ contractor/contractor. The bidder company is required to give the following information for this purpose along with cancelled cheque for verification:-

- a) Beneficiary Bank Name:
- b) Beneficiary branch Name:
- c) IFSC code of beneficiary Branch
- d) Beneficiary account No.:
- e) Branch Serial No.(MICR No.):

Supplier hereby agrees that it will be solely responsible for performing all compliances and making payments of GST, cesses, interest, penalties or any other tax/duty/amount/charge/liability/arising either out of laws /regulations applicable in India and overseas or because of a demand / recovery initiated by any revenue authority under laws /regulations applicable in India or overseas.

For claiming this payment the following documents are to be submitted to the paying authority.

- a) Invoice clearly indicating break up details of composite price i.e. Basic, Goods and Services Tax (GST), any other Duties and Taxes, Freight/Packing Charges, etc.
- b) Acknowledged Delivery Challan in original.
- c) Inspection Certificate of QA (Payable copy in original)
- d) These are freight receipts as per the rates approved by the Ministry of Water and Surface Transport, if applicable.
- e) E-way bill as prescribed in the GST law in case of movement of goods.
- f) Proof of payment of GST, if applicable.
- g) Timely uploading of correct and necessary information on GSTN portal is mandatory as prescribed in GST compliances.

Note:- If the Service Provider fails to furnish necessary supporting documents i.e. GST invoice/Customs invoices etc. and also fails to upload the information on GSTN in respect of the Duties/taxes for which input tax credit is available, the amount pertaining to such Duties/Taxes will be deducted from the payment due to the Service Provider.

- (i) Tax amount will be paid to the Service Provider only after Service Provider declares the details of the invoices in its return in GSTR 1 and GSTR-3 uploaded the Service Provider and the same is reflected in GSTR-2A of BSNL on GSTN portal.
- (ii) TDS/TCS shall be deducted at the prescribed rate, if any (as the case may be).

- (iii) BSNL can adjust/ forfeit Bank Guarantee obtained from the Service Provider against any loss on input tax credit to BSNL on account of the Service Provider default.
- (iv) In case BSNL has to pay GST on reverse charge basis, the Service Provider would not charge GST on its invoices. Further, the Service Provider undertakes to comply with the provisions of GST law as may be applicable.

8. Submission of bills:

The bills in triplicate shall be submitted in the printed format with bill numbers in running sequence.

- a) PAN should be furnished in the bill
- b) Invoice.
- c) Any other documents as may be demanded by BSNL.
- d) GST paid challan may also be attached with the bill.
- e) Approved tender rates shall be printed in the bill itself.
- f) Copy of EPF/ESI remittance challan's of previous month along with the list of Labourers for whom the remittances have been made and amount paid each labour should be enclosed along with the bill from second month onwards without which payment of monthly bill will not be released. The list should contain the EPF/ESI account numbers of the labourers. Monthly remittance challans should not include remittance details of labourers engaged on other contracts.
- g) The compensation for interruption of service rendered by the Contractor while carrying out the work will be deducted from the bills submitted by the bidder for payment.
- h) In case of downward revision of statutory levies/Taxes during the contract period, such benefits will be passed on to BSNL.
- i) The service contract charges shall be paid by BSNL to the contractor on monthly basis.
- j) All Taxes, duties, and levies payable under the provisions of Statutory, Rules or Regulations of the Central/State Government or Local Bodies arising out of the contract in respect of the work or operation or any part thereof to be performed by the Contractor as applicable of the amount for which the bill has been passed will be deducted at source, under relevant.

9. Deleted

10. Exit Clause:

- a) In case either party decides to terminate the agreement during the concurrency of the contract period, minimum 3 month notice shall be given and the complete documents/records and inventory supplied by BSNL, will be handed over to BSNL by the Bidder.
- b) In such case during the notice period all the terms & conditions will be enforceable and approved rates shall be paid as per the agreement.
- c) BSNL reserves the right to terminate the agreement, at any time, due to change in its own license conditions or upon directions from the DOT/ Government of India. In such a situation, BSNL shall not be responsible for any damage or loss caused or arisen out of aforesaid action.
- d) On termination or expiry of the Agreement, the BG shall be released to Bidder only after ensuring clearance of dues, if any, which Bidder is liable to pay to BSNL. In case of failure of Bidder to pay the amounts due to BSNL, the outstanding amounts shall be realized through encashment of the Bank Guarantee without prejudice to any other action(s) for recovery of the amounts due to BSNL.

- e) No penalty/damages/compensation shall be payable by either party before expiry of agreement period, if exit is made under the following circumstances:
- f) The order of any Government(Central/State)or any statutory body.
- g) In Force Majeureevent.
- h) Not withstanding any other rights and remedies provided elsewhere in the agreement, upon termination of this agreement:
- (i) Neither Party shall represent the Other Party in any of its dealings.
- (ii) Neither Party shall intentionally nor otherwise commit any act(s)as shall make a third party to believe that the other Party is still the former Party'spartner.
- (iii) Each party shall stop using the other Party'sname, trade mark,etc.,in any audio or visual form.

11. Compliance of Labour Lawsetc.

The Bidder shall comply with all statutory / legal liabilities towards all the personnel either employed by itself or in the rolls of its sub-vendors, who have been deployed for execution ofvarious works against this project, that may arise due to various labour and other laws as specified by central/state from time to time. Further the engagement and employment of any personnel and payment of wages to them as per the existing provisions of various labour lawsand regulations is the sole responsibility of the bidder and any breach of such laws or regulation shall be deemed to be breach of this Agreement.

12. Deleted

13. Tax deducted at source: Nothing contained herein in the agreement shall prevent BSNL from deducting tax at source if required under GST Act and GST Regulations,anylaworanyregulation.

14. ReverseChargeliability:

- a) Domestic procurement: Wherever domestic reverse charge is applicable on BSNL under GSTAct.no. tax shall be charged by supplier on invoice. It shall be the liability of BSNL to pay taxunderreverse chargemechanism.
- b) Unregistered supplier: It is specially agreed between the parties that where the supplier is notregistered under GST Act. It shall be the responsibility of BSNL to discharge liability under reverse charge mechanism.Itis further agreed that supplier shall not charge tax on invoice.

15. GST Invoice:

- a) It shall be the responsibility of supplier to raise appropriate tax invoice as per the provisions ofGST Act. BSNL reserves the right to be indemnified for the credit loss in case BSNL is unable toclaim the input tax credit for any non-compliance / default in raising appropriate invoice by supplier.Further allin voices should be sent to BSNL promptly.
- b) Further the supplier is required to comply following requirements w.r.to issuance of invoice:
 - (i) All the details of supplier (name ,GSTIN/unregistered vendor,place of supply, SAC/HSNcodeetc.) and other mandatory details shall be mentioned on the invoice.
 - (ii) Invoice/DN/CN need to be issued timely within the time prescribed under GST law.
 - (iii) in case of any deficient supply, BSNL shall convey the same in a reasonable time to enable the supplier to issue credit note and take tax adjustment:
 - (iv) it would be the responsibility of the supplier to declare correct information on invoice and GST portal viz. the amount, the place of supply, rate of tax etc. in case, the eligibility if input tax creditis questioned or denied to BSNL on account of default by the supplier , the same would bere covered by BSNLfrom the supplier.
 - (v) Registered location of the both partiesi.e.BSNLand supplier should be mentioned in the agreement with GSTIN No. Further, supplier should raise invoice at the registered premises of BSNL for availing of credit and ensure that the place of

supply as per GST law is same as registered premise:

(vi) It shall be responsibility of supplier to raise invoice within the prescribed timelines.

(vii) E-way bill numbers should be mentioned in the invoice.

16. GST Invoice and Compliances:

All the details of Service Provider (name, address, GSTIN/unregistered Service Provider, place of supply, SAC/HSN code etc.) and other mandatory details shall be mentioned on the invoice.

Invoice/Supplementary invoice/Debit Note/Credit Note/Receipt Voucher need to be issued in compliant format and timely within the time prescribed under GST law.

In case of any deficient/incomplete/rejected supply, BSNL shall convey the same in a reasonable time to enable the Service Provider to issue credit note and take tax adjustment.

It would be the responsibility of the Service Provider to declare correct information on invoice and GSTN viz. the amount, the place of supply, rate of tax etc. In case, the eligibility of input tax credit is questioned or denied to BSNL on account of default by the Service Provider, the same would be recovered by BSNL from the Service Provider.

Registered location of the both the parties i.e. BSNL and Service Provider should be mentioned in the agreement with GSTIN No. Further, Service Provider should raise invoices at the registered premise of BSNL for availing of credit and ensure that the place of supply as per GST law is same as registered premise

BSNL could at any time instruct the Service Provider to raise its invoices at a particular location of BSNL

It is the responsibility of the Service Provider to ensure that place of supply and the GSTN of BSNL are in the same state. If for any reason they are not in the same state, the Service Provider shall intimate to BSNL and give adequate time before raising of the invoice.

E-way bill numbers should be mentioned on the invoices.

Service Provider shall be responsible for timely issuance and delivery of invoice/ DN/ CN to enable BSNL to claim tax benefit on or before the stipulated time period provided by the GST law.

- a) It is the responsibility of the Service Provider to ensure that outward supply return (GSTR-1) would be filed correctly. If not, then cost would be borne by Service Provider.
- b) Reporting of correct outward supply by Service Provider in the outward return (GSTR-1) is the responsibility of the Service Provider. In case of mismatch because of Service Provider's fault, prompt amendments must be made by the Service Provider else Service Provider would be required to indemnify BSNL of the loss of credit due to mis-match. The compliances to be adhered by Service Provider includes (but is not limited to) the following:
 - (i) Uploading appropriate invoice details on the GSTN within the stipulated time;
 - (ii) Issuing GST compliant invoice / CN/ DN. PO issued by BSNL should be referred by Service Provider for capturing information on the invoice.
 - (iii) Service Provider needs to pay the entire self-assessed tax on timely basis.
 - (iv) Where invoice is not uploaded or incorrect upload of invoice detail of GSTN by Service Provider then credit on such invoice will be given provisionally subject to matching. So, acceptance of changes made by BSNL on GSTN on account of non-upload or incorrect upload of invoice details on GSTN is to be submitted by Service Provider. Such changes w.r.t. the mismatch are required to be accepted by Service Provider within the time limit prescribed under the GST law. It should be noted that in case Service Provider does not accept such changes within the time limit prescribed under GST law, the loss of input tax credit (if any) would be recovered from the Service Provider. In case of mismatch because of Service Provider's fault, prompt amendments must be made by the Service Provider else Service Provider would be required to indemnify

BSNL for the losses of credit and interest paid due to mismatch.

- (v) Service Provider to issue all necessary documentation and per form all necessary compliances for BSNL to be eligible to claim the input tax credit of GST tax to them. In case BSNL is unable to claim the input tax credit, the amount w.r.t. GST charged by the Service Provider would be recovered from the Service Provider.
- (vi) A self-declaration along with evidence that the bidder is not blacklisted by GST authorities. In case Service Provider gets black listed during the tenure of BSNL contract, then Service Provider must indemnify BSNL so ensure that no loss of input tax credit is borne by BSNL due to default of Service Provider.

All the details of Service Provider (name, address, GSTN/ unregistered Service Provider, place of supply, SAC/HSN code etc.) and other mandatory details shall be mentioned on the invoice.

Where the location agreed are more than one state, then separate invoice state wise to claim input tax credit in a particular state (typically happens in a bill to-ship to scenario) shall have to be submitted.

It shall be the responsibility of the Service Provider to mention State of place of supply of goods/services in the invoice issued to BSNL.

- 17. Composition scheme:** Where the supplier is registered as a composition dealer under GST Act, it shall declare the same at the time of acceptance of purchase order. Supplier shall not levy or impose taxes under GST on invoices.

18. Debit Note:

- a) The supplier acknowledge and agrees to issue appropriate debit note/credit note as prescribed under GST Act and send to BSNL within the prescribed time. All documents should be received well in advance so as to enable BSNL to claim proper credit.
- b) Further it shall be the responsibility of supplier to declare the details of such credit note in their turn for the month during which such credit note has been issued but not later than September following the end of the financial year in which such supply was made of the date of furnishing of the relevant annual return, whichever is earlier.
- c) BSNL reserves the right to indemnify for the credit loss by supplier in case of BSNL is unable to claim the input tax credit for any non-compliance of default of due to lack of diligence on the part of the supplier.

19. Miscellaneous:

- a) Supplier agrees to share the monthly information with BSNL which would be uploaded by the supplier in its GSTR-1 along with the information of input credit to be claimed by BSNL in such month:
- b) It shall be the responsibility of vendor to provide reconciliation statement of all the supplies made by it including issuance of credit note, debit note or other documents as prescribed within 30th September following the end of relevant financial year.

**SECTION-6 (A)
UNDERTAKING & DECLARATION**

6(A)-FOR UNDERSTANDING THE TERMS&CONDITION OF TENDER & SPECIFICATION OF WORK

a) Certified that:

1. I/ We have read, understood and agree with all the terms and conditions, specifications included in the tender documents & offer to execute the work at the rates quoted by us in the tender form.
2. If I/ We fail to enter into the agreement & commence the work in time, the EMD/SD deposited by us will stand forfeited to BSNL.

b) The tenderer hereby covenants and declares that:

1. All the information, Documents, Photo copies of the Documents/ Certificates enclosed along with the tender offer are correct.
2. No addition / deletion / corrections have been made in the downloaded Tender document being submitted and it is identical to the Tender document appearing on the website.
3. If anything is found false and/or incorrect and/or reveals any suppression of fact at any time, BSNL reserves the right to debar our TENDER offer/ cancel the LOA/ Purchase/ work order if issued and forfeit the EMD/ SD/ Bill amount pending with BSNL. In addition, BSNL may debar the contract or from participation in its future tenders.

Date:.....

Place:

Signature of Tenderer

Name of Tenderer
(Along with date & Seal)

6(B)–NEAR-RELATIONSHIPCERTIFICATE

(Format of the Certificate to be given as per the clause 34 of Section-4 Part-A by the bidder in respect of status of employment of his/her near relation in BSNL)

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

* I.....s/o.....r/o..... here by 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

SECTION- 7

PROFORMAs

7(A) PROFORMA FOR THE BID SECURITY / EMD GUARANTEE

(TobetypedonRs.100/-non-judicialstampaper)

Sub:Bid Security/EMD guarantee.

Whereas M/s R/o
(Hereafter referred to as Bidder) has approached us for giving Bank Guarantee of Rs.
...../-(here after known as the"B.G.Amount")validupto...../...../20..... (here after
Known as the"Validitydate")in favour of **AO (A&B), O/o CGMT, BSNL CG Circle, Raipur**.(Hereafter
referred to as BSNL) for participation in the tender of work of
.....vide tender no.....

Now at the request of the Bidder, We.....Bank
.....Branch having
(Address)and Regd.office addressas.....
..... (Here in after called"theBank") agreesto
givethisguaranteeashereinaftercontained:

1. 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".
2. 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.
3. 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.
4. 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.

5. Notwithstanding anything here in contained;
- (a) The liability of the Bank under this guarantee is restricted to the "B.G.Amount" and it will remain in force upto 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.
6. *In case BSNL demands for any money under this bank guarantee, the same shall be paid through Banker's Cheque in favour of "AO (A&B), O/o CGMT, BSNL CG Circle" payable at RAIPUR.*
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.....

7(B) FOR THE PERFORMANCE BANK GUARANTEE

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

Sub: Performance Bank Guarantee.

Whereas<Contract awarding authority> (Here after referred to as BSNL) has issued an AWO No.....Dt.../.../.....awarding the work of to M/s having registered office at(Hereafter referred to as "Bidder") and BSNL has asked him to submit a Performance Guarantee in favour of **AO (A&B), O/o CGMT, BSNL CG Circle, RAIPUR** of Rs.....(Hereafter referred to as "P.G.Amount") valid upto...../...../20.....(Hereafter known as the "Validity date").

Now at the request of the Bidder, We.....Bank.....Branch having(Address) and Regd. office address as(Hereinafter called 'the Bank') agrees to give this guarantee as here in after contained:

1. We, "the Bank" do hereby undertake and assure to the BSNL that if in the opinion of the BSNL, the Bidder has in any way failed to observe or perform the terms and conditions of the said agreement or has committed any breach of its obligation there-under, the Bank shall on demand and without any objection or demur pay to the BSNL the said sum limited to P.G.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 Bidder 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 Bidder 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 Bidder and BSNL regarding the claim.
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 Bidder 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 Bidder or through any forbearance, act or omission on the part of BSNL or any indulgence by BSNL to Bidder 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 any thing here in contained:
 - (a) The liability of the Bank under this guarantee is restricted to the P.G. Amount and it will remain in force up to its Validity date.
 - (b) The guarantee shall stand completely discharged and all right 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 "AO (A&B), O/o CGMT, BSNL CG Circle" payable at RAIPUR.*
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.....

Faxnumbers

**

7(C) FOR LETTER OF AUTHORIZATION FOR ATTENDING BID OPENING EVENT.

(To be typed preferably on letter head of the company)

Subject: Authorization for attending Bid opening of tender.

I/WeMr./Ms.....have submitted our bid for the TENDER no.
.....iN respect of
(Item of work) which is due to open on..... (date) in the Meeting
Room,O/o

.....

We hereby authorize the following person, whose signatures are attested below, to attend the bid opening for the TENDER mentioned above on our behalf.

Orderofpreference	Name	Specimen signature	ContactNo.
I			
II (Alternate Representative)			

Above Signatures Attested:

Signature of bidder-----

Or

Officer authorized to sign the bid

Documents on behalf of the bidder .-----

Note:-

- (i) Only one representative will be permitted to attend the Bid opening
- (ii) Permission for entry to the hall where bids are opened may be refused in case authorization as prescribed above is not received.

7(D)PROFORMA OF POWER OF ATTORNEY

(Refer Clause 14.3 of Section-4 Part-A)

Non-Judicial Stamp paper

POWER OF ATTORNEY

Be it known all to whom it may concern that:-

1. Shri/Smt./Ku _____ S/o/W/o/D/o _____ residing at _____
2. Shri/Smt./Ku _____ S/o/W/o/D/o _____ residing at _____
3. Shri/Smt./Ku _____ S/o/W/o/D/o _____ residing at _____

I, the Proprietor/We all the Partners/Directors of M/s _____
_____ (Name & Address) hereby appoint
Shri/Smt./Ku, _____ s/o/w/o /d/o _____ residing at
_____ as my/our Attorney to act in my/our name and on behalf and
sign and execute all documents/agreements binding the firm for all contractual obligations
(including references of cases to arbitration) arising out of contracts to be entered into by the
firm with O/o The CGMT BSNL CG Circle Raipur in connection with their Tender
Enquiry No. _____ dated _____ for the supply of
_____ due for opening on _____.

In short, he is fully authorized to do all, each and everything requisite for the above purpose
concerning M/s _____ And I/We hereby agree to confirm and
ratify his all and every act of this or any documents executed by my/our said Attorney within the
scope of the authority hereby conferred on him including references of cases to arbitration and
the same shall be binding on me/us and my/our firm as if the same were executed by me/us
individually or jointly.

Witness (with Address)

Signature of the Proprietor/Partners/Directors

1) Name _____
Sign. _____
(Address _____)

1) Name: _____
Sign. _____

2) Name _____
Sign. _____
(Address _____)

2) Name: _____
Sign. _____

3) Name _____
Sign. _____
(Address _____)

3) Name: _____
Sign. _____

Accepted

(Name & Signature of Signatory of Tender Offer of the firm)

(with Designation, Address, PhoneNo., MobileNo. & Email)

ATTESTED

Notary Public

(Signature with Official Seal)

OR

REGISTERED

Before

(SUB-REGISTRAR) (of concerned State)

Signature with Official Seal

Note:-Kindly refer Clause 14.3 of Section-4 Part-A for compliance as mentioned below:-

- (i) The Power of Attorney should be submitted and executed on the non-judicial stamp paper of appropriate value as prevailing in the respective states(s) and the same be EITHER attested by a Notary Public OR registered before Sub-Registrar of the states(s) concerned.***
- (ii) The said Power of Attorney be 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. Copy of the Board Resolution / authorization shall also be submitted along with POA***
- (iii) In case of the bidder being a firm, the said Power of Attorney should be executed by all the partner(s) in favour of the said attorney.***

7(E) Mutual Non-Disclosure Agreements (NDA) (OnRs.100/-Non-Judicial Stamp paper)

This Agreement is made as of the.....2024 between BHARAT SANCHAR NIGAM LIMITED (BSNL) a Government of India Enterprise,, having its registered office at Bharat Sanchar Bhawan, H. C. Mathur Lane,Janpath, New Delhi – 110 001 hereinafter called BSNL which expression shall unless repugnant to the subjector the context mean and included its successors, nominees or assigns and M/sa company incorporated under the Indian Companies Act, 1956 and having its registered office at herein after called "....." which expression shall unless repugnant to the subject or the context mean and include its successors,nominees or assigns.

Where as in order to pursue the mutual business purpose of the particular project as specified in Exhibit A(the"Business Purpose"),BSNLandM/s..... recognize that there is a Need to disclose to one another certain information,as defined in para1below,of each party to be used only for the Business Purpose and to protect such confidential information from unauthorized use and disclosure.In consideration of the other party's disclosure of such information, each party agrees as follows: This Agreement will apply to all confidential and proprietary information disclosed by one party to the otherparty, including information listed in Exhibit A attached hereto and other information which the disclosingparty identifies in writing or otherwise as confidential before or within thirty days after disclosure to thereceiving party ("Confidential Information"). Information consists of certain specifications, designs, plans,drawings, software, prototypes and or technical information and the copies and derivatives containing suchinformation that maybe disclosed to one another for and during the purpose,which a party considers proprietary or confidential("Information").Information may be in any form or medium,tangible or intangible and may be communicated/disclosed in writing, orally, or through visual observation or by anyother means to one party (hereinafter referred to as the receiving party) by the other party (hereinafterreferred to as one disclosing party). Information shall be subject to this Agreement, if it is in tangible form, only if clearly marked as proprietary or confidential as the case may be, when disclosed to the receiving partyor, if not in tangible form, its proprietary nature must first be announced, and it must be reduced to writing and furnished to the receiving party withinthirty (30)days of the initial disclosure.

- 1)M/s.....and BSNL hereby agreed at during the Confidentiality Period:
- (a) The receiving party shall use Information only for the Purpose, shall hold Information in confidence usingthe same degree or case as it normally exercises to protect its own proprietary information, but not less thanreasonable care, taking into account the nature of the Information , and shall grant access to Information onlyto its employees who have a need to know , but only to the extent necessary to carry out the business purpose of this project as defined in exhibit A,shall cause its employees to comply with the provisions of this Agreement applicable to the receiving party, shall reproduce Information only to the extent essential to fulfilling the Purpose, and shall prevent disclosure of Information to third parties. The receiving party, may,however, disclose the Information to its consultants and contractors with a need to know; provided that bydoing so, the receiving party agrees to bind those consultants and contractors to terms at least as restrictiveas those stated herein, advise them of their obligations, and identify the disclosing party for any breach ofthoseobligations.
 - (b) Upon the disclosing party's request,the receiving party shall either return to the disclosing party all Information or shall certify to the disclosing party that all media containing Information have been destroyed.Provided, however, that an archival copy of the Information may be retained in the files of the receiving party'scounsel,solely for the purpose of providing the contents of the Information.
- 2) The foregoing restrictions on each party's use or disclosure of Information shall not apply to Information thatthereceivingparty can demonstrate:
- a) was independently developed by or for the receiving party without reference to the Information, or was received without restrictions;
 - or
 - b) has become generally available to the public without breach of confidentiality obligations of the receiving party;

- or
- c) was in the receiving party's possession without restriction or was known by the receiving party without restriction at the time of disclosure;
- or
- d) is the subject of a subpoena or other legal or administrative demand for disclosure; provided; however, that the receiving party has given the disclosing party prompt notice of such demand for disclosure and the receiving party reasonably cooperates with the disclosing party's efforts to secure an appropriate protective order;
- or
- e) is disclosed with the prior consent of the disclosing party; or
- f) was in its possession or known to it by being in its use or being recorded in its files or computers or other recording media prior to receipt from the disclosing party and was not previously acquired by the receiving party from the disclosing party under an obligation of confidence; or
- g) the receiving party obtains or has available from a source other than the disclosing party without breach by the receiving party or such source of any obligation of confidentiality or non-use towards the disclosing party.
- 3) Each party agrees not to remove any of the other party's Confidential Information from the premises of the disclosing party without the disclosing party's prior written approval. Each party agrees to exercise extreme care in protecting the confidentiality of any Confidential Information which is removed only with the disclosing party's prior written approval, from the disclosing party's premises. Each party agrees to comply with any and all terms and conditions and disclosing party may impose upon any such approved removal, such as conditions that the removed Confidential information and all copies must be returned by a certain date, and that no copies are to be made off of the premises.
- 4) Upon the disclosing party's request, the receiving party will promptly return to the disclosing party's Confidential Information all copies thereof.
- 5) Each party recognizes and agrees that all of the disclosing party's Confidential Information is owned solely by the disclosing party (or its licensors) and that the unauthorized disclosure or use of such Confidential Information would cause irreparable harm and significant injury, the degree of which may be difficult to ascertain. Accordingly, each party agrees that the disclosing party will have the right to obtain an immediate injunction enjoining any breach of this Agreement, as well as the right to pursue any and all other rights and remedies available at law or in equity for such a breach.
- 6) Access to Information hereunder shall not preclude an individual who has seen such Information for the purposes of this Agreement from working on future projects for the receiving party which relate to similar subject matters, provided that such individual does not make reference to the Information and does not copy the substance of the Information during the Confidentiality Period. Furthermore, nothing contained herein shall be construed as imposing any restriction on the receiving party's personnel under this Agreement, if such disclosure and use would be regarded by a person of ordinary skill in the relevant area as not constituting a disclosure or use of the Information.
- 7) As between the parties, all Information shall remain the property of the disclosing party. By disclosing Information or executing this Agreement, the disclosing party does not grant any license, explicitly or implicitly, under any trademark, patent, copyright, mask work protection right, trade secret or any other intellectual property right. THE DISCLOSING PARTY DISCLAIMS ALL WARRANTIES REGARDING THE INFORMATION INCLUDING ALL WARRANTIES WITH RESPECT TO INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS AND ALL WARRANTIES AS TO THE ACCURACY OR UTILITY OF SUCH INFORMATION. execution of this Agreement and the disclosure of Information pursuant to this Agreement does not constitute or imply any commitment, promise, or inducement by either party to make any purchase or sale, or to enter into any additional agreement of any kind.
- 8) Either party's failure to enforce any provision, right or remedy under this agreement shall not constitute a waiver of such provision, right or remedy.
- 9) This Agreement will be construed in, interpreted and applied in accordance with the laws of India.

- 10) That in case of any dispute or differences, breach & violation relating to the terms of the Agreement. The said matter or dispute, difference shall be referred to sole arbitration of Chief General Manager, Chhattisgarh Telecom Circle (CGM MHTC) or any other person appointed by him. That the award of the arbitrator shall be final and binding on both the parties. In the event of such Arbitrator to whom the matter is originally referred to is being transferred or vacates his office on resignation or otherwise or refuses to do work or neglecting his work or being unable to act as Arbitrator for any reasons whatsoever, the Chief General Manager, Chhattisgarh Telecom Circle shall appoint another person to act as Arbitrator in place of outgoing Arbitrator and the person so appointed shall be entitled to proceed further with the reference from the stage at which it was left by his predecessor. The M/s will have No Objection in any such appointment, that arbitrator so appointed is employee of BSNL. The said Arbitrator shall act under the Provisions of the Arbitration and conciliation Act, 1996 or any statutory modifications or re-enactment thereof or any rules made there of.
- 11) This Agreement and Exhibit A attached here to constitutes the entire agreement of the parties with
- 12) Respect to the parties respective obligations in connection with Information disclosed hereunder and supersedes all prior oral and written agreements and discussions with respect thereto. The parties can amend or modify this Agreement only by a writing duly executed by the respective authorized representatives. Neither party shall assign this Agreement without first securing the other party's written consent.
- 13) This Agreement will remain in effect for five years from the date of the last disclosure of Confidential Information, at which time it will terminate, unless extended by the disclosing party in writing.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement by their duly authorized officers or representatives.

M/s	BHARAT SANCHARNIGAM LIMITED
Signature _____	Signature _____
Printed Name:	Printed Name:
Title:	Title:

Signature of Bidder

7(F) PROFORMA OF "STATEMENT OF CLAUSE BY CLAUSE COMPLIANCE"/ "STATEMENT OF NO DEVIATIONS"

(TO BE SUBMITTED ON THE ORGANISATION'S / COMPANY'S LETTER HEAD)

To,

**The AGM (MM),BSNL
O/o-CGMT Chhattgarh Circle
Vidhan Sabha Road, Khamardih,
Raipur-492 007**

Sub:-Clause-by-Clausecompliance/StatementofDeviations

Ref:-YourTenderNo. _____

In accordance with Clause11.2(c) of Section-4 Part-A of the above referred Tender document it is to state that –

1. We,(name of organization/Company) have read and understood all the terms and conditions of the above Tender. We accept all the Terms & conditions of the Tender under reference including/and in particular, all the technical specifications mentioned in Section-3 Part-A & Part-B: Schedule Of Requirements & Specifications (SOR) & commercial specifications mentioned in Section-5 Part-A: General (Commercial) Conditions of the Contract and Section-5 Part-B Special (Commercial) Conditions of Contract, unconditionally.
2. We also affirm that there will be No deviations in any of the Technical Specifications and Commercial Conditions of the above tender.

Dated :..... day of.....2025

Signature: _____

Name: _____

In the capacity of: _____

Duly authorized to sign the bid for and
on behalf of : _____

7(G) EXPERIENCE CERTIFICATE
(On Client's Letter head)
Experience Certificate

It is hereby certified that M/s.....has worked with us for..... Work which included following responsibilities as per the details of the contract as given below.

- (1) Name of the Telecom Service/Infrastructure Provider: _____
- (2) Name of Telecom Circle: _____
- (3) Details of contract: _____

Type of Work & Responsibilities	Item wise work details	Period of Contract	Amount	Remarks

2) Over all performance assessment: _____

Signature of the Authorized Person.

Name/Email/Mobile Number

Note:-

- (a) The work completion certificate /work experience certificate strictly as per the given format should be furnished along with details of full address, contact land line phone/Cell number, Fax, Official Email address etc., of the issuing authority in the Letter Pad of the department / company where the work was executed
- (b) In case of work experience related to BSNL/MTNL, the certificate shall be issued by an officer not below the rank of DGM or equivalent.
- (c) Experience certificates shall be as per clause 4.4 of Section 1 Part A.
- (d) Experience certificate shall be supported by corresponding Agreement/ Purchase Order Copies.

7(H) AGREEMENT OF CONTRACT

(On Rs.100/-Non-Judicial Stamp paper)

This agreement is made on the _____ day of _____ (Year) to be effective from _____ between

M/s. Bharat Sanchar Nigam Limited a company registered under the Companies Act 1956 having license to provide all types of services of Telegraph and having its registered office at Bharat Sanchar Bhavan, Janpath, New Delhi – 110 001 (hereinafter called "BSNL" which expression shall unless repugnant to the context, include its successors in business, legal representatives and administrators or permitted assigns)

AND

M/s _____ accompany registered under _____ having license to provide all types of services of _____ and having its registered office at _____

(herein after called Contractor which expression shall unless repugnant to the context, include its successors in business, legal representatives and administrators or permitted assigns) of the OTHER PART.

WHERE AS, BSNL has placed Advance Work Order on the Contractor vide No. dated _____ for fault/need basis comprehensive Maintenance of Optical Fiber cable (OFC) in Bastar BA of BSNL, Chhattisgarh Telecom

Circle against tender No WHEREAS the Contractor has made the offer to duly comply with all the provisions of the bid document for Maintenance of Optical Fiber cable in URBAN/RURAL area of BASTAR BSNL BA, after making himself fully aware and understanding fully the implications of the terms and conditions and specifications mentioned therein and which has been accepted by BSNL on the terms and conditions mentioned hereafter and after ascertaining that the Contractor is fully capable of complying with the afore said terms of the Bid Document.

All other terms & conditions as contained in bid document TENDER.NO. shall form the integral part of this contract & are to be complied with.

IN WITNESS WHERE OF the parties here to have caused this Agreement to be executed through their respective authorized representatives on the day and year first above written.

Signed _____

Signed _____

For and on behalf of the BSNL

For and on behalf of the Contractor

Name (caps) _____

Name (caps) _____

Position _____

Position _____

Date _____

Date _____

In the presence of Witnesses:-

In the presence of Witnesses:-

1. _____

1. _____

2. _____

2. _____

7(I) MATERIAL SECURITY
(On Rs.100/-Non-Judicial Stamp Paper)

This agreement is made on the _____ day of _____ (Year) to be effective from _____ between M/s. Bharat Sanchar Nigam Limited a company registered under the Companies Act 1956 having license to provide all types of services of Telegraph and having its registered office at Bharat Sanchar Bhavan, Janpath, New Delhi – 110 001 (hereinafter called "BSNL" which expression shall unless repugnant to the context, include its successors in business, legal representatives and administrators or permitted assigns)

AND

M/s _____ accompany registered under _____ having license to provide all types of services of _____ and having its registered office at _____

(here in after called Contractor which expression shall unless repugnant to the context, include its successors in business, legal representatives and administrators or permitted assigns) of the OTHER PART.

Whereas.....(here in after called "the contractor") has been awarded the contract of cable maintenance work as per tender number _____ know all men by these presents that We.....of.....having our registered office at _____ (herein after called the "the contractor") are bound un to----- (herein after called "the BSNL") in the sum of----- for which payment will and truly to be made of the said BSNL, the bank binds itself, its successors and assigns by these presents.

THE CONDITIONS of the obligation are:

1. If the contractor is unable to keep to res issued to him, properly, i.e. the store provided to the contractor, by the BSNL are damaged or
2. The stores issued to the contractor by the BSNL are stolen or
3. The contractor is not able to provide proper account of the stores issued to him/her/them by the BSNL.

We undertake to pay to the BSNL up to the above amount upon receipt of its first witting demand without the BSNL having to substantiate its demand, provided that in its demand, the BSNL will note that the amount claimed by it is due to it owing to the occurrence of one or two or all of three conditions specifying the occurred condition or conditions.

This guarantee will remain in force up to and including one hundred and eighty **180** days after the Period of contract validity, and any demand in respect thereof should reach the bank not later than the above date.

Signature of the Witness

Signature of the bank

Name of Witness

Address of Witness

SECTION-8
Bidder's Profile & Questionnaire.

Tenderer / Bidder's Profile & Questionnaire
(To be filled in and submitted by the bidder)

A) Tenderer's Profile

- 1) Name of the Individual/Firm:.....
- 2) Present Correspondence
Address:.....
.....
.....
TelephoneNo.....MobileNo..... FAXNo.
.....
- 3) Address of place of Works.....
.....
.....
Telephone No.....Mobile No.....
- 4) State the Type of Firm:Sole proprietorship/partnership firm/Private limited Company(Tick the correct choice)
- 5) Name of the sole proprietor/partners/Director(s) of Pvt. Ltd Co.:

S. No.	Name in full(with surname,father / husband's name,etc.)	EmailID &ContactNos.(mobile)	Designation	Complete	DIN No. (for allDirect ors)	PhoneNo.	
						Office	Residence
1.							
2.							
3.							

- 6) Name of the person authorized to enter into and execute contract/ agreement and the capacity in which he is authorized (incase of partnership/private Ltd company):
.....
.....
- 7) Details of the Bidder's Bank for effecting e-payments:
 - (a) Name of the A/C Holder.....
 - (b) Beneficiary account No.:.....

- (c) SavingorCurrentAccount.....
- (d) IFSCcodeofbeneficiaryBranch.....
- (e) Permanent AccountNo.(PAN)of Firm/Company:.....
- (f) Beneficiary BankName:.....
- (g) Beneficiary branch Name:.....
- (h)Branch Address
- (i) Branch Tel.No.....FAXNo.....
- (j) BranchSerialNo.(MICRNo.):.....
- (k) Taxdetails (CST &VAT) Registration No.....
- 8) GSTN Registration Number(s) of all units/business places of the bidder vide which he intendstoexecute thecontract,if awarded.
 GSTN1.....
 GSTN 2.....
 GSTN 3..... ,and soon
- 9) Whether the firm has Office/works in Chhattisgarh? If so state its Address.

B) Questionnaire

- 1) Do you think any other detail/material is required to complete the work specified in the specification? **Yes/No.**
 If Yes, Give details.....

- 2) Do you think any other item of work need be included in TENDER form to complete the work specified in the specification? **Yes/No.**
 IfYes,Give details.....
 Suggestion for improvement of this tender document.

Place.....
 Date.....

Signatureofcontractor.....

NameofContractor.....

**SECTION-9
PART-A BID FORM**

To

From:-

.....

.....

<complete address of the purchaser>

<complete address of the Bidder>

.....

.....

.....

.....

Bidder's Reference No:.....Dated.....

Ref: Your Tender Enquiry (Tender) No.

- 1) Having examined the above mentioned tender enquiry document including amendment/clarification/ addenda Nos.dated.....the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver..... in Conformity with the said drawings, conditions of contract and specifications for the sum shown in the schedule of prices attached here with and made part of the financial Bid.
- 2) Bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.
- 3) We agree to abide by this Bid for a period of..... days from the date fixed for Bid opening or for Subsequently extended period, if any, agreed to by us. This bid shall remain binding upon us upto the afore said period.
- 4) We understand that you are not bound to accept the lowest or any bid, you may receive.
- 5) If our Bid is accepted, we will provide you with a performance guarantee from a Scheduled Bank for a **sum@10% of the contract value** for the due performance of the contract.
- 6) If our Bid is accepted, we undertake to complete delivery of all the items and perform all the services specified in the contract in accordance with the delivery schedule specified in the Section-2 (Tender Information).
- 7) Until a formal Purchase Order of Contract is prepared and executed, this Bid together with your written acceptance (LOI) thereof in your notification of award shall constitute a binding contract between us.
- 8) We have read and understood all technical, general & commercial conditions of this bid document and accept to comply them unconditionally.
- 9) We are not under any penal action of black listing and / or barred from participating in TENDER by any BSNL unit or any other Govt. /SemiGovt./Autonomous body/PSU.

Dated:.....day of20...

Signature.....

Witness

Name.....

Signature.....

In the capacity of.....

Name.....

Duly authorized to sign the bid for and

on Address.....

behalf of.....

**SECTION - 9 PART- B
PRICE SCHEDULE**

[FOR DETAILS PLEASE REFER TO THE BOQ.XLS FILE UP LOADED ON ETENDERS.GOV.IN
WEBSITE]

(Note:-Please read all the instruction and Terms & Conditions before filling this form)

From,

.....

.....

Sub:- E-Tender for outsourcing of Maintenance and Operation of Mobile BTS Sites, Maintenance of Optical Fiber cable on fault/need basis & Other associated works as defined in the Scope of work for Bastar BA in CG Circle.

NIT NO......

Withreference toyour tenderNoticeNo.referred above, I /Weherebyoffermy/our tender for "Expression of Interest (EOI) for outsourcing through E-tender for Maintenance and Operation of Mobile BTS Sites along with Maintenance of Optical Fiber cable on need basis as defined in Scope of work &Other Network Elements as defined in Scope of work for Bastar BA in CG Circle Raipur" in full compliance to the terms and condition of theNIT referred above.

The Price quoted in the enclosed Price Schedule shall include all taxes / levies / duties, butexclusiveofGST.

If this tender is accepted either fully or in part, I/We hereby agree to abide by and fulfil all theTerms & Conditions of the contract and enter into prescribed agreement within one week orbeing called upon to do so bearing all expenses in connection therewith including charges forstamps etc, if any, and agreement will be binding on me/us. I/We have read the Terms and Conditions mentioned in the document and agree to abide by all conditions and terms laid down therein.

YoursFaithfully,

Place:

Signature:

Date:

Name & Full Address:

ESTIMATED RATES/ Schedule of Rate (SoR)

Name of Tender: E-Tender for outsourcing of Maintenance and Operation of Mobile BTS Sites, Maintenance of Optical Fiber cable on fault/need basis & Other associated works as defined in the Scope of work for Bastar BA in CG Circle.

NIT No-:

Part –A BTS SLA:

Estimated Base Rate			
SI No	Name of Service	Unit	Monthly Estimated Rate
1	BTS & Infrastructure Maintenance for BSNL sites (Excluding IP sites)	Each	2700/-
2	BTS & Infrastructure Maintenance for Non-BSNL sites (Excluding IP sites)	Each	2700/-
3	BTS Maintenance for Infrastructure Provider (IP) sites	Each	1700/-

Part –B OFC Maintenance fault/need Basis :

SI No	Name of Works	Rate	Unit
1	Through Rate for Excavating trenches includes Open trench/HDD HDD by Depth of 1.65m	200.00	Per Mtr
2	Laying of single PLB HDPE Pipes/Coils, coupled with coupler.	5.175	Per Mtr
3	Laying of OF Cable by Pulling/blowing method including opening of Manhole, Sealing of PLB HDPE Pipes by Rubber Bushes in Manholes/ Back Filling of Manholes.		
3.1	i) Upto 48F OF Cable	12.94	Per Mtr
3.2	ii) 96 F OF Cable	16.17	Per Mtr
4	Providing cement concrete 1:2:4 at Wheel guard of bridge/culvert over the toe or in the trench for protection or Providing cement concrete	6741.00	per Cu.M
5	Splicing of Fibres in existing/New Joint Chambers for making Straight/Branch joints on new routes or at FPOI and end to end testing of all Fibres after Splicing. The rates specified are inclusive of installation and splicing of splitters also wherever app		
5.1	up to 48F	4730.00	per joint
5.2	up to 96F	6622.00	per joint
6	Jointing Chamber		
6.1	Digging of pits for Jointing chamber, construction of brick chamber, filling of brick chamber with clean sand, supply and placing of pre-cast RCC slab on joint chamber and back filling of joint chamber.	4950.00	per Jointing Chamber
6.2	Supply of ferro cement joint box set	3960.00	per Jointing Chamber
6.3	Digging of pits for Jointing chamber, fixing of pre-cast RCC chamber, filling of Joint chamber with clean sand, supply and placing of pre-cast RCC slab on joint chamber and back filling of joint chamber.	1650.00	per Jointing Chamber
7.0	Supply and fixing of RCC/Stone route/joint indicator by digging 1 meter pit towards jungle side on each manhole/joint/route chamber and fixing with concreting as per specifications in the tender document	396.00	Per Indicator
8.0	Over Head Laying	17.50	Per Km
9.0	Excavating trenching cable pit for identifying cable fault	323	Per Cu Mtr

FINANCIAL BID

SECTION -A

THIS BID SHOULD BE FILLED&SUBMITTED ONLINE ONLY)
(THIS IS GIVEN ONLY FOR THE PURPOSE OF QUANTITY&CONDITIONS ONLY)

NIT NO.....

FINANCIALBID

E-Tender for outsourcing of Maintenance and Operation of Mobile BTS Sites, Maintenance of Optical Fiber cable on fault/need basis & Other associated works as defined in the Scope of work for Bastar BA in CG Circle.

To

The AGM (MM),BSNL
O/o-CGMT Chhattsgarh Circle
Vidhan Sabha Road, Khamardih,
Raipur-492 007

Dear Sir,

Having examined the tender documents, terms and conditions stipulated therein, specifications of worketc., we the under signed offer to execute the Expression of Interest (EOI) for outsourcing of Maintenance and Operation of Mobile BTS Sites , Maintenance of Optical Fiber cable on fault/need basis & Other associated works as defined in Scope of work for Bastar BA in CG Circle Raipur works conditions of contract at the percentage (below/at par/ above) on against standard schedule ratesquotedasabove:

I/We hereby quote

SECTION -A

Part -A BTS SLA

Section No	Name of Section	Name of Service	Quantity (Nos of Sites)	BTS SLA Cost per Year	Quoted by bidder		
					Above/ Par/ (% Numbers)	At Below in (% in word)	Above/ At Par/ Below (% in word)
A	Jagdapur	BTS & Infrastructure Maintenance for BSNL sites (Excluding IP sites)	11	356400/-			
		BTS &Infrastructure Maintenance for Non-BSNL sites (Excluding IP sites)	39	1263600/-			
		BTS Maintenance for Infrastructure Provider (IP) sites	46	938400/-			
Total Quoted Cost (Rs)							
Total Over all %							

SECTION – A (Jagdalpur)
(Part –B- Maintenance of OFC Routes)

SECTION -A							
Part –B Maintenance of OFC Routes							
Section No	Name of Section	Name of Service	Approximate Route length for fault restoration on need basis (Km)	OFC Mntc Need base Cost per Year	Quoted by bidder		
					Above/ Below (% in Numbers)	At Par/ Below (% in word)	Par/ (
A	Jagdalpur	OFC Construction for fault restoration & Network uptime	352KM	2636140/-			

* Estimated cost of BTS maintenance is given in Section 9 part A and Brief description of activities (not mandatorily required for each occasion ,for need based fault only) in OFC work with respective SoR is given in section 9, part B

If our Bid is accepted, we shall submit the security as per the conditions mentioned in the contract. We agree to abide by this Bid for a period of **180 days** from the date of opening of financial bid and it shall remain binding upon us and may be accepted at anytime before the expiry of that period.

I/ We have read carefully the terms and conditions, technical aspects / matter guidance in connection with this tender and accept all terms and conditions etc and assured that I/We have the capacity / capability to comply the order with in specified time.

I/ We hereby quote my / our rates for different items of work of OFC Construction Work and in case I/we am/are not able to carry out the work as per the terms and conditions of tender my/our EMD /Security Deposit may be forfeited.

Note:-

L1 will be recommended by TEC/PNC based on over-all cost as per quoted rates of part-A&B.

I agree with all the terms and conditions of the tender and would be abide by all these.

Dated:

Signature of tenderer For or on
 behalf of :.....
 (Name of the firm:.....
 Address.....
 Phone No.....
 Seal / Stamp of the firm:

FINANCIALBID**SECTION -B**

THIS BID SHOULD BE FILLED & SUBMITTED ONLINE ONLY)
 (THIS IS GIVEN ONLY FOR THE PURPOSE OF QUANTITY & CONDITIONS ONLY)

NIT NO.....

FINANCIALBID

E-Tender for outsourcing of Maintenance and Operation of Mobile BTS Sites, Maintenance of Optical Fiber cable on fault/need basis & Other associated works as defined in the Scope of work for Bastar BA in CG Circle Raipur.

To

The AGM (MM), BSNL
 O/o-CGMT Chhattsgarh Circle
 Vidhan Sabha Road, Khamardih,
 Raipur-492 007

Dear Sir,

Having examined the tender documents, terms and conditions stipulated therein, specifications of work etc., we the under signed offer to execute the Expression of Interest (EOI) for outsourcing of Maintenance and Operation of Mobile BTS Sites work, Maintenance of Optical Fiber cable on fault/need basis & Other associated works as defined in Scope of work for Bastar BA in CG Circle Raipur works conditions of contract at the percentage (below/at par/ above) on against standard schedule rates quoted as above:

I/We hereby quote

SECTION -B**Part -A BTS SLA**

Sl No	Section No	Name of Section	Name of Service	Quantity (Nos of Sites)	BTS QOS Cost per Year	Quoted by bidder	
						Above/ At Par/ Below (% in Numbers)	Above/ At Par/ Below (% in word)
1	B	Dantewada, Bijapur & Sukma	BTS & Infrastructure Maintenance for BSNL sites (Excluding IP sites)	11	356400/-		
			BTS & Infrastructure Maintenance for Non-BSNL sites (Excluding IP sites)	28	907200/-		
			BTS Maintenance for Infrastructure Provider (IP) sites	13	265200/-		
Total Quoted Cost (Rs)							
Total Over all %							

SECTION –B (Dantewada, Bijapur & Sukma)
(Part –B- Maintanance of OFC Routes)

SECTION -B							
<u>Part –B Maintenance of OFC Routes</u>							
Section No	Name of Section	Name of Service	Approximate Route length for fault restoration on need basis (Km)	OFC Mntc Need base Cost per Year	Quoted by bidder		
					Above/ Below (% in Numbers)	At Par/ Below (% in word)	Par/ (
B	Dantewada, Bijapur & Sukma	OFC Construction for fault restoration & Network uptime	402KM	2287873/-			

*SoR of BTS maintenance is given in Section 9 part A and Brief description of activities (not mandatorily required for each occasion for need based fault) in OFC work with respective SoR is given in section 9, part B

If our Bid is accepted, we shall submit the security as per the conditions mentioned in the contract. We agree to abide by this Bid for a period of **180 days** from the date of opening of financial bid and it shall remain binding upon us and may be accepted at anytime before the expiry of that period.

I/ We have read carefully the terms and conditions, technical aspects / matter guidance in connection with this tender and accept all terms and conditions etc and assured that I/We have the capacity / capability to comply the order with in specified time.

I/ We hereby quote my / our rates for different items of work of OFC Construction Work and in case I/we am/are not able to carry out the work as per the terms and conditions of tender my/our EMD /Security Deposit may be forfeited.

Note:- L1 will be recommended by TEC/PNC based on over-all cost as per quoted rates of part-A&B.

I agree with all the terms and conditions of the tender and would be abide by all these.

Dated:

Signature of tenderer For or on behalf of :.....
 (Name of the firm:.....
 Address.....
 Phone No.....
 Seal / Stamp of the firm:

FINANCIALBID

SECTION -C

THIS BID SHOULD BE FILLED & SUBMITTED ONLINE ONLY)
(THIS IS GIVEN ONLY FOR THE PURPOSE OF QUANTITY & CONDITIONS ONLY)

NIT NO.....

FINANCIALBID

E-Tender for outsourcing of Maintenance and Operation of Mobile BTS Sites, Maintenance of Optical Fiber cable on fault/need basis & Other associated works as defined in the Scope of work for Bastar BA in CG Circle.

To

The AGM (MM),BSNL
O/o-CGMt Chhattsgarh Circle
Vidhan Sabha Road, Khamardih,
Raipur-492 007

Dear Sir,

Having examined the tender documents, terms and conditions stipulated therein, specifications of work etc., we the under signed offer to execute the Expression of Interest (EOI) for outsourcing of Maintenance and Operation of Mobile BTS Sites work, Maintenance of Optical Fiber cable on fault/need basis & Other associated works as defined in Scope of work for Bastar BA in CG Circle Raipur works conditions of contract at the percentage (below/at par/ above) on against standard schedule rates quoted as above:

I/We here by quote

SECTION -C

Part -A BTS SLA

Sl No	Section No	Name of Section	Name of Service	Quantity (Nos of Sites)	BTS QOS Cost per Year	Quoted by bidder	
						Above/ At Par/ Below (% in Numbers)	Above/ At Par/ Below (% in word)
1	C	Kondagaon & Narayanpur	BTS & Infrastructure Maintenance for BSNL sites (Excluding IP sites)	7	226800/-		
			BTS & Infrastructure Maintenance for Non-BSNL sites (Excluding IP sites)	32	1036800/-		
			BTS Maintenance for Infrastructure Provider (IP) sites	25	510000/-		
Total Quoted Cost (Rs)							
Total Over all %							

SECTION –C(Kondagaon &Narayanpur)
(Part –B- Maintanance of OFC Routes)

SECTION -C						
<u>Part –B Maintenance of OFC Routes</u>						
Section No	Name of Section	Name of Service	Approximate Route length for fault restoration on need basis (Km)	OFC Mntc Need base Cost per Year	Quoted by bidder	
					Above/ Below (% in Numbers)	At Par/ Below (% in word)
C	Kondagaon &Narayanpur	OFC Construction for fault restoration & Network uptime	313KM	2341855/-		

*SoR of BTS maintenance is given in Section 9 part A and Brief description of activities (not mandatorily required for each occasion of need based fault) in OFC work with respective SoR is given in section 9, part B

If our Bid is accepted, we shall submit the security as per the conditions mentioned in the contract. We agree to abide by this Bid for a period of **180 days** from the date of opening of financial bid and it shall remain binding upon us and may be accepted at anytime before the expiry of that period.

I/ We have read carefully the terms and conditions, technical aspects / matter guidance in connection with this tender and accept all terms and conditions etc and assured that I/We have the capacity / capability to comply the order with in specified time.

I/ We hereby quote my / our rates for different items of work of OFC Construction Work and in case I/we am/are not able to carry out the work as per the terms and conditions of tender my/our EMD /Security Deposit may be forfeited.

Note:- L1 will be recommended by TEC/PNC based on over-all cost as per quoted rates of part-A&B

I agree with all the terms and conditions of the tender and would be abide by all these.

Dated:

Signature of tenderer For or on behalf of :.....
 (Name of the firm:.....
 Address.....
 Phone No.....
 Seal / Stamp of the firm:

FINANCIAL BID**SECTION -D**

THIS BID SHOULD BE FILLED & SUBMITTED ONLINE ONLY)
 (THIS IS GIVEN ONLY FOR THE PURPOSE OF QUANTITY & CONDITION ONLY)

NIT NO.....

FINANCIAL BID

E-Tender for outsourcing of Maintenance and Operation of Mobile BTS Sites, Maintenance of Optical Fiber cable on fault/need basis & Other associated works as defined in the Scope of work for Bastar BA in CG Circle.

To
The AGM (MM), BSNL
O/o-CGM T Chhattsgarh Circle
Vidhan Sabha Road, Khamardih,
Raipur-492 007

Dear Sir,

Having examined the tender documents, terms and conditions stipulated therein, specifications of work etc., we the under signed offer to execute the Expression of Interest (EOI) for outsourcing of Maintenance and Operation of Mobile BTS Sites work, Maintenance of Optical Fiber cable on fault/need basis & Other associated works as defined in Scope of work for Bastar BA in CG Circle Raipur works conditions of contract at the percentage (below/at par/ above) on against standard schedule rates quoted as above:

I/We here by quote

SECTION -D**Part -A BTS SLA**

Sl No	Section No	Name of Section	Name of Service	Quantity (Nos of Sites)	BTS QOS Cost per Year	Quoted by bidder	
						Above/ At Par/ Below (% in Numbers)	Above/ At Par/ Below (% in word)
1	D	Bhanupratappur & Kanker	BTS & Infrastructure Maintenance for BSNL sites (Excluding IP sites)	11	356400/-		
			BTS & Infrastructure Maintenance for Non-BSNL sites (Excluding IP sites)	63	2041200/-		
			BTS Maintenance for Infrastructure Provider (IP) sites	11	224400/-		
Total Quoted Cost (Rs)							
Total Over all %							

SECTION -D (Bhanupratappur & Kanker)

Part –B- Maintanance of OFC Routes

SECTION -D						
<u>Part –B Maintenance of OFC Routes</u>						
Section No	Name of Section	Name of Service	Approximate Route length for fault restoration on need basis (Km)	OFC Mntc Need base Cost per Year	Quoted by bidder	
					Above/ Below (% in Numbers)	At Par/ Below (% in word)
D	Bhanupratappur & Kanker	OFC Construction for fault restoration & Network uptime	435KM	1608154/-		

*SoR of BTS maintenance is given in Section 9 part A and Brief description of activities (not mandatorily required for each occasion of need based fault) in OFC work with respective SoR is given in section 9, part B

If our Bid is accepted,we shall submit the securities as per the conditions mentioned in the contract.We agree to abide by thisBidfor aperiod of **180days** from the date of opening of financial bid and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

I/ We have read carefully the terms and conditions, technical aspects / matter guidance in connection with this tender and accept all terms and conditions etc and assured that I/We have the capacity / capability to comply the order with in specified time.

I/ We hereby quote my / our rates for different items of work of OFC Construction Work and in case I/we are not able to carryout the work as per the terms and conditions of tender my/our EMD /SecurityDeposit may be forfeited.

Note:- L1 will be recommended by TEC/PNC based on over-all cost as per quoted rates of part-A&B

I agree with all the terms and conditions of the tender and would be abide by all these.

Dated:

Signature of tenderer

For or on behalf of:.....

(Name of the firm:.....)

Address.....

Phone No.....FAX No Seal /

Stamp of the firm:

CHECKLIST (To be filled by all Bidders)

Sl.No.	Details of Documents	Uploade d (Yes/No /NA)
1	EMD–As per Section-1, Part-A	
2	Cost of the Tender documents, i.e.Tender fee as per Section-1, PartA.	
3	Documentary proof in respect of valid certificate from MSME for tendered item/work (if Applicable).	
4	Scanned copy of the document, as applicable, in support of registration of the company/Firm/Proprietorship as mentioned in Eligibility criteria of NIT in clause 4.1 .	
5	Average Annual financial turnover (to be submitted certified by CA) during last 3 FINANCIAL years, i.e FY 2021-22,2022-23,2023-24 should be at least 40% of the annual estimated cost. Audited Annual Financial Reports in support of this is to be enclosed along with the bid to substantiate eligibility in this regard.	
6	A Solvency Certificate from any nationalized/ scheduled bank for 30% of the estimated tender cost has to be submitted. The Solvency Certificate should not be older than six months from the date of issue of this Tender.	
7	Income tax return filed copy for the last 3 years i.e. AY: 2022-23,2023-24,2024-25	
8	Self attested copy of valid PAN Card.	
9	Valid proof of office in Chhattisgarh Telecom Circles as per Section-1,Part A.	
10	Clause by clause compliance OR Statement of deviation as per format given at Proforma-7(F) section 7	
11	Bidder's Profile & Questionnaire duly filled & signed as per Section-8.	
12	"Undertaking & declaration" duly filled & signed in Section6(A).	
13	Tender/Bid Form as perSection9 PartA.	
14	List of employed skilled technical personnel and/or Undertaking from Bidder regarding employment of skilled technical personnel.	
15	Documentary proof of valid GST registration.	
16	Self-declaration on company's letterhead along with the evidence, that Bidder is not black-listed by GST authorities.	
17	List of all GST registration numbers to BSNL, where supplier holds multiple valid GST numbers (To be mentioned/attached separately in Bidder's Profile & Questionnaire).	
18	Undertaking with respect to clause 4.7 Section-1 Part-A	
19	EPF & ESI Registration Certificate along with latest EPF & ESI payment certificate.	
20	Power of Attorney in accordance with clause14.3(a) of Section-4 Part-A and authorization for executing the power of Attorney as per clause-14.3(b) & (c)of Section-4 Part-A.	

21	Power of Attorney(POA) in accordance with clause14.3(e)of Section-4 Part-A in favor of DSC.The "Power of Attorney" shall not be older than the date of issue of NIT. (Offline as well as Online)	
22	Experiencecertificateas perClauseNo.4.4Section-1Part-AinformatatProforma -7(G) of Section 7.	
23	Near relationship certificate as per clause34 of Section-4 Part-A.	
24	The Bidder must not beblack-listed/bannedforTelecombusinessbyanyCentral/State Governments/PSUs/BSNLinIndia at the time of submission of bid.An undertaking on company's letterhead must be submitted in this regard.	
25	Valid labour license as per NIT	

Financial Bid:

S.No.	Details of Documents	Uploaded (Yes/No/NA)
1	Financial bid uploaded online (pdf & excel sheet)	