

**BHARAT SANCHAR NIGAM LTD.**  
(Govt. of India Enterprise)  
**OFFICE OF THE GENERAL MANAGER TELECOM, JALGAON-425 001.**

To,

NO :- Trans-31/Limited Tender-2 /GSM /2010-11/ Dated at Jalgaon the 23 / 09 /2010.

Limited sealed tenders are invited for and on behalf of BSNL by the **GMT Jalgaon** from the contractors who has any type of trenching work experience for example OFC Cable/UG cable/Pipe Laying etc in the DOT/BSNL/MTNL/RLY & State /Central Govt. undertaking organization/Private Telecom organization for

1. Name of work: **Optical Fibre cable construction work for GSM BTS for following Routes**

2. Area of contract & Eligible contractors :-

Section No	Name of Route	Tahsil	Approx. route	Through rate per meter	Estimated cost of Trenching & Laying OFC Rs.	Bid security in Rs. [EMD]	Time period in weeks to complete the work
1	Dambhurni T.E. to Dambhurni BTS Site	Yawal	200 M	72.71	1,56,595	3950/-	ONE WEEK
2	Sakli T.E. to Sakli BTS Site	Yawal	300 M	72.71			ONE WEEK
3	Jamthi Old T.E. to New BTS Site	Bhusawal	400 M	204.60			ONE WEEK
4	OFC Joint in duct to Collector office Tx Room	Jalgaon	250 M	148			ONE WEEK

Limited tender duly filled in properly, along with payment receipt ACG-67 will be issued by A.O.(Cash), % G.M.Telecom, Jalgaon towards the payment of EMD or in the form of D.D. in favour of A.O. (Cash),% G.M.Telecom, Jalgaon and sealed may be send by Registered post addressed to **Shri. V.G.Dhande A.G.M.[TX]** ,% G.M.Telecom, Telephone Bhavan, Zilha Peth Jalgaon-425 001. So as reach on or before **15.00 Hrs. of 01 /10/2010**. Sealed cover should be super scribed as "**Limited Tender for Optical Fibre cable construction work for GSM BTS Jalgaon SSA.** for New OFC Work in Jalgaon SSA .successful tenderer has to make agreement on Rs.100/- Non Judicial Stamp paper at his own cost and also to pay 10% Security Deposit of the awarded work.

Limited Tender will be opened on **01 /10/2010 at 16.00 Hrs.** The General Manager Telecom Jalgaon reserves all rights to accept/reject or all limited tenders partially or totally.

Encl: As above.

**ASSTT. GENERAL MANAGER TRANS  
O/O THE G. M. TELECOM JALGAON.**

## GENERAL TERMS AND CONDITIONS

### 1. Description of the work :- Optical Fibre cable construction work for USO & GSM BTS In Raver Tahsil

The work involves: -

- 1.1 The Optical Fibre Cable is laid through HDPE Pipes buried at a nominal depth of **140 cms**. The steps involved in OF cable construction are as under:
  - i] Excavation of trench upto a nominal depth of **140 cms**, according to Construction specification along national/State Highways/ other roads and also in city limits as mentioned in the notice inviting tender.
  - ii] Laying of HDPE pipes/coils coupled by DPE sockets in excavated trenches, on bridges and converters, drawing of 6 mm Polypropylene para pro rope [pp rope] through the HDPE pipes/coils as per Construction Specifications and sealing of HDPE pipe ends at every manhole by HDPE end caps of suitable size.
  - iii] Providing of mechanical protection by RCC pipes/GI pipes and/or concreting/chambering according to construction specifications, wherever required.
  - iv] Fixing of GI pipes/through with clamps at culverts/bridges and / or chambering or concreting of GI pipes/troughs, wherever necessary.
  - v] Back filling and dressing of the excavated trenches according to construction specification.
  - vi] Opening of manholes [ of size 3 meters X 1 meters X 1.8 meters X 1.65 meters depth], replacing existing 6mm PP rope by 8mm PP rope from [from manhole to manhole] for ensuring smooth passage for pulling the cable. Pulling of Optical Fibre Cable with proper tools and accessories as per construction specification. Sealing of both ends of the manholes by hard rubber bush of suitable size to avoid entry of rodents into the HDPE pies, putting splits HDPE 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.
  - vii] Digging of pit of size 2 meter X 2 meter X 1.8 meter [depth] for construction of jointing chamber at approximately every two kilometres of internal size 1.5 meter X 1.5 meter x 1.2 meter using bricks and mortar or fixing pre-cast jointing chamber of internal diameter of 1.2 meter filling of jointing chamber with clean sand, placing either pre-cast RCC cover or stone of suitable size on jointing chamber to protect the joint and back filling of jointing chamber with excavated soil.
  - viii] 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 the route indicators with yellow colour and joint indicator by red colour and sign writing denoting route/joint indicator number, as per construction specifications.

iX) 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 **DEPTH OF TRENCH 140 cms**.

Depth between	Reduction in rate
<140 Cms. to ≥125 Cms.	5%
<125 Cms. to ≥105 Cms.	15% of approved rates.
Below 105 Cms.	40% of approved rates

The payment for subnormal depth will be calculated as per formulae given below:-

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

$$\frac{100 \times ND}{100}$$

P	=	Payment for one meter
ROR	=	Reduction in rate in % as given above
RA	=	Approved rate of trenching per meter
D	=	Actual depth in Cms.
ND	=	Nominal depth of trench 165/140/120 Cms for which the tender has been floated.

d) Any clarification of the detail of the work can be obtained from the AGM (Trans)/SDE (TXN), Jalgaon before 3 days from the date specified for opening of the tender.

e) The quantities /figures indicated are approximate and are subject to change. Any change effected shall be binding on the tenderer as though included in original tender.

2. **Time schedule :-** The work shall be completed **within as per Nit** of after receipt of the order.

3. The General Manager Telecom, Jalgaon 425 001. , has full discretion to award the entire work or part of the work in any section to one or more contractors.

4. All materials, equipment , labour transportation etc., for completing the work within the time schedule specified shall be provided by the contractor at respective sites.

**5. Submission of tenders :-** tender shall be submitted in prescribed form in original placed in sealed cover, superscribed “ **TENDER FOR Optical Fibre cable construction work for GSM BTS in JALGAON SSA I** ” addressed to The Asst.General Manager(Trans) O/o GMT Telephone Bhawan Zilha peth Jalgaon..

Tenders which are not sealed properly shall be liable for rejection.

6. Tenderer should certify and affix his signature on each and every page of the tender documents, and return it along with his tender offer, as a token of his acceptance of each condition specified on each page of tender document.

7. The tender shall be bound for other all terms, conditions and specifications detailed in the Open tender document.

8. Late tenders :- Tenders received either by post or in person after the specified time will not be considered. BSNL will not be responsible for any postal delay.

9. Any tenderer wanting to deliver the tender in person should deposit the tender up to 15 hrs in the O/o AGM (Trans) Jalgaon

10. Documents to be submitted along with the tender :-

The bidder shall furnish as part of his bid document establishing the bidder's eligibility, the following documents.

- I) Bid Security as per maintained above
- II) Tender document(s), in original, duly filled in and signed by tenderer or his authorized representative along with seal on each page. All corrections and overwriting must be initialed with date by the tenderer or his authorized representative.
- III) The copy of experience certificate issued by the competent authority
- IV) copy of Sales Tax registration or Shop Act Licence or registration for any work with Govt/PSU etc.
- V) Bid Form, duly filled in
- VI) Tender's profile, duly filled in
- VII) Xerox copy of PAN card or attested copy of last financial year income tax returns submitted
- VIII) Declaration regarding relative in BSNL and Blacklisting
- IX) EPF registration number to be submitted within one month of award of work

11. Earnest Money Deposit :- An Earnest Money of Rs **2350/-** to be deposited along with tender document document in cash or in the form of Crossed Demand Draft issued by a Nationalized / scheduled bank, drawn in favor of 'Accounts Officer (Cash), BSNL % GMT Jalgaon', payable Jalgaon.

12. Tenders received without the prescribed earnest money deposit will be rejected summararily.

13. Interest is not payable on the earnest money deposit .The earnest money of unsuccessful tenderer will be refunded without interest within reasonable time after final decision .The earnest money deposit of successful tenderer shall be adjusted towards Security Deposit (SD) but will be forfeited if the tenderer fails to execute the agreement with the period specified.

14. Opening of the tender :- The tender will be opened on the date and time specified in the Tender Notice in the chamber of the Asstt. General Manager (Trans), Jalgaon in the presence of representatives of the tenders, who wish to present.

16. Tenders will be accepted & contractors will be finalized only with those of tenders who in the opinion of General Manager Telecom , Jalgaon are having the capacity and resources to execute the work in the prescribed time schedule.

17. Security Deposit :- The successful tenderers shall have to deposit an amount of **the security Deposit will be 10 % of estimate cost** . EMD paid will be converted in to S.D. And if required S.D. in addition to EMD will have to be deposited by the successful tenderer by cash payable at the cash counter of this office only. The S.D and E.M.D does not carry any interest.

18. Security deposit will not bear any interest for any period whatsoever.

19. The Schedule of tender Rate :- The schedule of tender rate shall be read in conjunction with general terms and conditions. The tenderer shall be deemed to have carefully examine these documents.

20. The tenderer shall quote the rate in English or Hindi only, both in figures and words .All corrections , additions and alterations in the entries will be signed in full by the tenderer with date. In case of any discrepancy of quotation in figs. and words, the rate quoted in words would be taken as final.

21. The schedule of tender rate is not signed by the tenderer shall be liable for rejection.

22. Signing of Contract Agreement :- The successful tenderer shall be required to execute an agreement on a Non judicial stamp paper of Rs. 100/- only at his own cost and the form attached within stipulated time period decided by this office .

23. Tender evaluation :- The tenderer shall quote the rate in “ % above ,At Par, or below of The schedule of Tender rate” .The rate shall include cost of the materials, labour ,transportation chares etc. to the respective site for preparing the test pit, and reinstatement of the pits after observing the strata per cubic meter rate shall be considered as THROUGH RATE and shall be the basis for tenderer evaluation.

24. Period of validity :- The rates quoted should be firm and valid for any work order that may be issued with in a period of one year from the date of communication of acceptance of the tender & until the completion of the work assigned under such a work order.

25. Refund of Security Deposit :- The security deposit shall be paid back to the contractor after a satisfactory period of 6 months from the date of satisfactory completion of the work and final acceptance by the B.S.N.L td of earlier at the discretion of the B.S.N.L

26. Inspection :- The General Manager Telecom or his representative of any of his superior officers shall have free access to the site at all times for INSPCTION. The contractor shall render to the representative of the B.S.N.L all possible assistance for the purpose.

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

28. The General Manager Telecom, Jalgaon , any at any time at his option cancel and terminate this contract by written notice stating reasons for such cancellation of termination to the

contractor in which event the contractor shall be entitled for the remuneration of the work done upto the time of such cancellation.

29. Work orders will be issued by AGM(TXN)/SDE (TXN) Jalgaon. for executing the job mentioned above. Work shall be completed within the prescribed time as mentioned in the work order issued.

30. Compensation for delay :

Normally no extension of time shall be allowed in any circumstances. Any difficulty in completing the work within the specified time period due to account of change/alteration in specification or natural calamity shall be brought to the notice of the AGM(TXN) in writing. AGM(TXN) after careful scrutiny of such cases shall extend the period of completion of work suitably by issuing an order in writing and contractor shall execute the work within the extended period.

31. If work progress of the contractor is slow, scope of the contract shall be restricted work shall be withdrawn and will be completed by calling fresh tenders or awarded to another contractor whose rate may not be same or carried departmentally and any excess amount such paid by the department shall be recovered from SD/EMD/Running Bills of the original contractor. No compensation shall be paid to the contractor for the losses sustained by him due to such action by the department.

32. The time allowed for completion of the work as entered in the tender shall be strictly adhered by the contractor and shall be deemed to be the most important aspect of the contract on the part of the contractor and shall be reckoned from Seventh day from issue work order by the BSNL. The work shall, throughout the stipulated period of contract, be proceeded with all due diligence to achieve the desired progress uniformly, and the contractor shall pay as penalty an amount equal to 0.25 percent of the estimated amount per day of delay in completion of work, subject to maximum of 10(ten) percent of the cost of the work awarded. Beyond the delay due to reason no agreed by GMT Jalgaon. S.D. deposit will be forfeited of his discretion.

33. If compensation so calculated exceeds 10% of the estimated cost the contract shall stand terminated and this stage and security deposit will be forfeited without any notice.

34. Compensation for damage / Casualties : Since work is to be carried out along the National / State Highways the contractor shall take sufficient precautionary measures like caution board/flags etc. to avoid any mishap before and during the period of work. No request for any compensation for any damage to equipment or any casualty to any person engage for the work or to any other person or property including contractor himself shall be considered by the BSNL under any circumstances. It shall be the sole

responsibility of the contractor to make arrangement of sufficient precautionary measures as he may deem fit.

35. LABOUR WELFARE MEASURES AND WORKMAN COMPENSATION:

**WORKMEN'S COMPENSATION:**

In every case in which by virtue of provisions of Section 12, Sub-section (i) of the Workmen's Compensation Act, 1923 BSNL is obliged to pay compensation to a workman employed by the Contractor, in execution of the works. BSNL will recover from the Contractor the amount of the compensation so paid and without prejudice to the rights of the BSNL under Section 12, Sub-section (ii) of the said ACT, BSNL shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by BSNL to Contractor whether under Section -12, Sub-section (i) of the said Act, except on the written request of the Contractor and upon his giving to BSNL full security for all costs for which BSNL might become liable in consequence of contesting such claim.

**Obtaining License before commencement of work:**

- (a) The contractor shall obtain a valid labour license under the Contract Labour (R&A) Act 1970 and the Contract labour (Regulation and Abolition) Central Rules 1971, before commencement of the work, and continue to have a valid license until the completion of work. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act 1986. Any failure to fulfill this requirement shall attract the penal provisions of this contract arising out of the resultant non-execution of work.
- (b) Subject to the provisions of the Contract Labour (Abolition and Regulation Act, 1970) as amended from time to time, the contractor shall not commence actual work unless he produces a receipt from the concerned Licensing Authority that he has applied for licensing authority, which may be produced within the period of 15 days of commencing the work.

**EPF and Misc. provisions Act 1952 :**

- (c) The contractor shall comply with all provisions available towards fulfillment/ compliance of the provisions of EPF and Misc. provisions Act 1952 and employees Provident Fund Scheme 1952 in respect of Labourers / Employees engaged by them for performing the works of BSNL.
- (d) Each Claim bill of the Contractor must accompany i) the list showing the details / Employees engaged, ii) Duration of their engagement, iii) Amounts of wages paid to such employees / labours for the duration in question, iv) amount of EPF Contributions (both employer's & employee's contribution) for the duration of engagement in question, paid to the EPF Authorities, v) Copies of authenticated documents of payment of such contribution to EPF authorities and vi) **a declaration form the contractors regarding compliance of the conditions of EPF Act, 1952.**

Asstt. General Manager (Trans.)  
O/o General Manager Telecom,  
Jalgaon-425 001.

**BID FORM**

T. No. Trans-31/Limited Tender-2/GSM Work /2010-11/ 01 Date:- 23/09/2010

To :  
AGM (TRANS)  
BSNL % GMT Jalgaon.

**(Tender Accepting Authority)**  
**(Address)**

Dear Sir,

Having examined the conditions of contract and specifications including addenda No..... the receipt of which is hereby duly acknowledged, we, undersigned, offer to execute the work of Optical Fibre cable Construction Work.....in conformity with said drawings, conditions of contract and specification as may be ascertained in accordance with the schedule of prices attached herewith and made part of this Bid.

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

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

We agree to abide by this Bid for a period of 240 days from the date fixed for Bid opening (Qualifying Bid) and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

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

Bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.

Date this .....day of.....(the year)

**Signature of Authorized Signatory.....**  
**In capacity of.....**  
**Duly authorized to sign the bid for and on behalf of .....**

**Witness.....**  
**Address.....**  
**Signature.....**

**TENDERER'S PROFILE**

**General:**

- 1. Name of the tenderer/ firm \_\_\_\_\_
- 2. Name of the person submitting the tender whose Photograph is affixed  
Shri/ Smt. \_\_\_\_\_

Passport size photograph of the tenderer / authorized signatory holding power of Attorney

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

- 3. **Address of the firm.**  
.....  
.....

4. **Telegraphic Address**.....

5. **Tel No. (with STD code) (O)**.....**Fax**.....**[R.]**.....

6. **Registration & incorporation particulars of the firm:**

- i) **Proprietorship**
- ii) **Partnership**
- iii) **Private Limited**
- iv) **Public Limited**

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

7. **Name of Proprietor / Partners /Directors**.....  
.....

8. **Tenderer's bank, its address and his current account number**.....  
.....

9. **Permanent Income Tax number, Income Tax circle**.....  
.....

- 10. **Infrastructural capabilities:**
  - i) **Capacity if trenching per day (in words)**.....
  - ii) **Capacity of engaging mazdoors per day**.....

iii) **Particulars of vehicles available with the tenderer:**

<i>Type of Vehicle (s)</i>	<i>Registration number</i>
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- iv) **Particulars of other machines possessed by the contractor which can help in trenching pipe laying and cable pulling**  
.....  
.....

11. **Details of Technical and supervisory Staff:**

*I/We hereby declare that the information above is true and correct.*

*Place:*.....

*Date:*.....

**Signature of tenderer / Authorized signatory**.....

**Name of the tenderer**.....

**Seal of the tenderer**

**1)Section IX (A)**

**DECLARATION**

**(This annexure shall be signed with Seal by the bidder invariably)**

Proforma for declaration by tenderer regarding relative in BSNL

I ..... HERE BY CERTIFY THAT NONE OF MY RELATIVE(S) AS DEFINED IN THE TENDER DOCUMENT IS / ARE EMPLOYED IN BSNL UNIT AS PER DETAILS GIVEN IN TENDER DOCUMENTS. 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.

**2) Section IX (B)**

**DECLARATION Regarding Black Listing / Debarring from taking part in Govt. tenders by BSNL**

**(This annexure shall be signed with Seal by the bidder invariably)**

I/We:-  
Proprietor/ Partner/ Director(s) of M/s .....

Hereby declare that the firm/ company namely M/s .....  
..... has not been blacklisted or debarred in the past by DOT/BSNL/ or any other Government / Semi government organization from taking part in the Govt. tenders

\* was blacklisted or debarred by DOT/BSNL / Govt. Deptt /PSU from taking part in Govern tenders for a period of ..... years w.e.f..... The period is over on ..... & now the firm / company is entitled to take part in the Govt. Tenders.

In case the above information is found false I/we are fully aware that the tender / contract will be rejected / cancelled by the General Manager Telecom Jalgaon & EMD /SD shall stand forfeited.

In addition to above, G.M.Telecom Jalgaon will not be responsible to pay the bills for any completed/ partially completed works.

Place

Signature

Seal of the firm

Capacity in which is signed

Name Address of the firm:

Date

*(Strike out which is not applicable)*

**BHARAT SANCHAR NIGAM LIMETED**  
(A GOVT. OF INDIA ENTERPRISES)

O/o General Manager Telecom,  
Telephone Bhawan Zilha peth  
Jalgaon-425 001

Bid Document

(FINANCIAL)

*Tender for*  
**Optical Fiber Cable Construction Works**



NIT No.Trans-31/Limited Tender-2/GSM Work /2010-11/ 01 Date:- 23 / 09 /2010



**SECTION A**  
**STANDARD SCHEDULE OF RATES FOR O.F. CABLE CONSTRUCTION WORKS**

Route / Section: As Per NIT

Sr No.	Item Code	Description Of Item	Rs.	Unit
1	1OFCT	Schedule rate (See notes) for excavating trenches upto a depth of <b>140 cms</b> . And back filling the excavated trenches after laying the HDPE pipe with or without protection.		
	Sec. No	Name of Route		
	1	Damburni T.E. to Damburni BTS Site	72.71	Per Meter
	2	Sakli T.E. to Sakli BTS Site	72.71	Per Meter
	3	Jamthi Old T.E. to New BTS Site	204.60	Per Meter
	4	OFC Joint in duct to Collector office Tx Room	148	Per Meter
2.0	2HDPE	Laying of HDPE pipes/PLB Coils, coupled with HDPE socket and drawing 6 mm PP rope.	1.75	Per meter
The BSNL will supply HDPE Pipes in sizes of 5 meters or PLB pipe coils, HDPE Sockets, PP rope, End caps.				
2.1	2GIHB	Road/Rail crossing through horizontal boring method and inserting 65/40 dia G.I. Pipes and pushing HDPE pipes/PLB coils inside and drawing 6 mm PP rope.	400	Per meter
The BSNL will supply G.I. Pipes in length of approx. 6m, HDPE pipes/PLB coils and PP Rope.				
2.2	2GIPT	Laying and fixing of 65 mm/40mm G.I. Pipes in trenches with HDPE Pipe/Coils inside and drawing PP rope.	6.20	Per meter
The BSNL will supply GI Pipes in lengths of approx.6m HDPE pipes/PLB coils and PP Rope.				
2.3	2GIBC	Laying & fixing of 65mm/40mm GI Pipes/G.I. troughs on bridges and Culverts with HDPE pipes/PLB coils inside and drawing PP rope.	11.70	Per meter
The BSNL will supply GI Pipes in lengths of approx.6m HDPE pipes/PLB coils and PP Rope.				
2.4	2RCCT	Laying full round RCC Pipes in trenches with HDPE pipes/PLB coils inside and drawing PP rope.	7.40	Per meter
The BSNL will supply full round RCC Pipes in lengths of 2 M with collars, HDPE PIPE/Coil, PP Ropes, Materials required for sealing the couplings of RCC Pipes will be arranged by the contractor				
2.5	2PCCT	Providing RCC Protection at Site to HDPE OR G.I. Pipes reinforced by Weld Mesh & Drawing of P.P. Rope.	2444.92	Per cu.m.
HDPE Pipes G.I.Pipes will be supplied by the BSNL. The weld mesh of size 50 mm X 100 mm 12 SWG and the materials required for concreting including water for curing required for work will be supplied by the contractor.				
2.6	2RMR W	Providing retaining wall at required places as per specification	1190	Per Cu.m.
The contractor shall arrange all materials required for the work.				
3.0	3OFCP	Opening of Manholes, replacing 6mm PP Rope, Pulling of O.F. Cable, Sealing of HDPE Pipes by Rubber Bushes in Manholes, providing HDPE/RCC Split Pipes in manholes/Back filing of Manholes Rs. 3/- and Rs. 1/- for putting rope in PLB pipes.	4.00	Per meter km (Based on Market Rate)
The BSNL will supply O.F. Cable, 8mm PP Rope, Rubber Bush, Split RCC/HDPE Pipes, and Clamps. The contractor shall arrange all other materials required for the work.				
4.0	4JCBR	Digging of pit for jointing chamber, construction of brick Chamber, filling of brick chamber with clean sand, supply and placing of Pre-cast RCC Slabs on brick chamber, and back filling of jointing pit.	2000	Per jointing chamber
The contractor shall arrange all materials required for the work.				
4.1	4JCPC	Digging of pit for jointing chamber, Fixing of Pre-cast RCC chamber, filling of RCC chamber with clean sand, placing of pre-caste RCC slabs on RCC joint chamber, and backfilling of jointing pit.	400	Per jointing chamber
The BSNL will supply Pre-cast RCC Chamber with cover.				
5.0	5ORJF	Digging of pit 1 meter towards jungle side on each manhole/joint chamber for fixing of route/joint indicator, fixing and concreting of routes/joint indicator. Painting and sign writing of route/joint indicators.	181.50	Per Indicator

The BSNL will supply route/joint indicators only. The contractor shall arrange all other materials required for the work.				
6.0	6DOCT	Documentation (6 copies of documents for each route/section = one set)	2000.00	Per set
All materials required for the work shall be arranged by the contractor				
7.0	7GIPT I	Laying and fixing of 100 mm GI pipes in trenches with HDPE pipe/PLB coils inside and drawing PP rope	10.00	Per meter
7.1	7GIPT II	Laying and fixing of 150 mm GI pipes in trenches with HDPE pipe/PLB coils inside and drawing PP rope	15.00	Per meter
7.2	7GIBC I	Laying and fixing of 100 mm GI pipes/GI troughs on bridges and culverts with HDPE pipe/PLB coils inside and drawing PP rope	20.00	Per meter
7.3	7GIBC II	Laying and fixing of 150 mm GI pipes/GI troughs on bridges and culverts with HDPE pipe/PLB coils inside and drawing PP rope	30.00	Per meter
7.4	7RCCT I	Laying full round 150 mm RCC pipes in trenches with HDPE pipe/PLB coils inside and drawing PP rope	10.50	Per meter
7.5	7RCCT II	Laying full round 200 mm & above diameter RCC pipes in trenches with HDPE pipe/PLB coils inside and drawing PP rope	15.00	Per meter
7.6	7HRCC I	Laying half round 150 mm RCC pipes in trenches with HDPE pipe/PLB coils inside and drawing PP rope	5.50	Per meter
7.7	7HRCC II	Laying half round 200 mm RCC pipes in trenches with HDPE pipe/PLB coils inside and drawing PP rope	8.00	Per meter
8.0	8DWCT	Laying of full round DWC pipes of 63/51 mm dia in trenches for extra protection with HDPE pipes PLB/ HDPE/Coils already laid	Rs. 3.50	Per Meter
8.1	8DWCT I	Laying of full round DWC pipes of 120/103 mm dia in trenches for extra protection for HDPE pipes PLB/ HDPE/Coils already laid	Rs. 3.50	Per Meter
8.2	8DWCT II	Laying of full round DWC pipes of 160/135 mm dia in trenches for extra protection for HDPE pipes PLB/ HDPE/Coils already laid	Rs. 4.50	Per Meter
8.3	8DWCT III	Laying of full round DWC pipes of 200/170 mm dia in trenches for extra protection for HDPE pipes PLB/ HDPE/Coils already laid	Rs. 4.50	Per Meter
The BSNL will supply full round DWC pipes with couplers PLB pipe/Coil. Materials required for sealing work shall be arranged by Contractor.				
9.0	9DWCT	Laying of full round DWC pipes of 63/51 mm dia on Bridges and Culverts for extra protection for extra protection for HDPE pipes PLB/ HDPE/Coils; including fixing charges.	Rs. 7.00	Per Meter
9.1	9DWCT I	Laying of full round DWC pipes of 120/103 mm dia on Bridges and Culverts for extra protection for HDPE pipes PLB/ HDPE/Coils, including fixing charges.	Rs. 7.00	Per Meter
9.2	9DWCT II	Laying of full round DWC pipes of 160/135 mm dia on Bridges and Culverts for extra protection for HDPE pipes PLB/ HDPE/Coils, including fixing charges.	Rs. 10.00	Per Meter
9.3	9DWCT III	Laying of full round DWC pipes of 200/170 mm dia on Bridges and Culverts for extra protection for HDPE pipes PLB/ HDPE/Coils, including fixing charges.	Rs. 10.00	Per Meter
The BSNL will supply full round DWC pipes, PLB coils, Clamps and Nails.				

**ASST. GENERAL MANAGER(TRANS)**



