



BHARAT SANCHAR NIGAM LIMITED

(A Government of India Enterprise)

Name of the work:	Construction of foundation & Erection of 15.00 metre RTT with available material at NBSNL site at Ganeshnagar in Osmanabad district,Solapur BA.
NIT No :	51(13)/NITNo15/EECP/BSNL/2024-25/66 Dated 19/03/2025
Name of the Contractor:	
Estimated cost put to Tender	Rs. 1,65,270/- (Rs. One Lakh Sixty Five Thousand Two Hundred Seventy only)
Last date of receipt of application:	26/03/2025 up to 16:00 Hrs
Last date of issue of tender forms:	27/03/2024 up to 16:00 Hrs.
Date of Receipt of tenders :	28/03/2024 up to 15:00 Hrs.
Earnest Money Deposit	Rs.3,310/- (Rupees Three Thousand Three Hundred Ten Only)
Cost of tender papers:	Rs.590.00 (Rupees Five Hundred Ninety Only)including GST
Date of opening:	Date 28/03/2024 at 15:30 hours.
Tender issued on :	

Certified that this tender document contains 54 **(Fifty Four)**Pages.

Executive Engineer
BSNL Civil Division
Pune

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INSTRUCTIONS TO TENDERERS WHO HAVE DOWNLOADED THE TENDER DOCUMENT FROM WEBSITE:

1. The tender is to be downloaded from the website and print is to be taken on A4 size paper and details are to be entered by the tenderer at the various locations in the document. It is advisable that the downloaded tender document to be printed through a good printer like Laser printer etc., submission of Xerox or photocopy of tender document is prohibited.
2. The tenderer should see carefully and ensure that the complete tender document including schedule of quantities as per the INDEX has been downloaded. While taking print out, it shall be ensured that the document is printed as appearing in the website and there is no change in formatting, no. of pages etc. and all pages are legible and clear.
3. The cost of tender document (Non-refundable, amount mentioned in BSNL W-6 of tender document) will have to be deposited by the tenderer in the form of Bank draft of a scheduled bank issued in favour of **Accounts Officer (Cash) O/o GMTD, BSNL, Solapur" payable at Solapur** along with the tender. This should be enclosed as a separate demand draft. A single demand draft for the cost of tender form and Earnest money deposit will not be accepted. Tender not accompanied with the demand draft towards the cost of tender document will be summarily rejected.
4. The Earnest money deposit required for the work as stipulated in the BSNL W-6 of the tender document also to be submitted separately failing which the tender will be summarily rejected.
5. Tenderers are advised to download the tender document well in advance and submit the tender before the stipulated time. It is the responsibility of the tenderer to check any correction or any modifications published subsequently in website and the same shall be taken into account while submitting the tender. Tenderers shall download corrigendum (if any), print it out, sign and attach it with the main tender document. Tender document not accompanied by published corrigendum/s is liable to be rejected. BSNL will not be responsible for delay in downloading the tender document from the web site.
6. Each page of the tender document shall be signed by the tenderer.
7. Tenderers are free to download tender document at their risk and cost, for the purpose of perusal as well as using the same as tender document for submitting the offer. Master copy of the tender document is available in **O/o the Executive Engineer, BSNL Civil Division, Pune**. After award of work, agreement will be prepared based on the master copy of tender document available in the above mentioned office. **In case any discrepancy between tender document downloaded from the website and master copy, later shall prevail and will be binding on the tenderer(s), no claim on this account will be entertained.**
8. If any change/ addition / deletion is made by the tenderer /contractor and the same is detected at any stage even after the award of the tender, full earnest money deposit will be liable to be forfeited and the contract will be liable to be terminated at his / their risk and cost. The tenderer is also liable to be banned from doing business with BSNL Civil wing.
9. The downloaded "Tender document" in which rates are quoted should be properly bound and sealed. Loose/ spiral bound tender shall be rejected out rightly. Tender papers stapled and bound along left edge with tape with signature of the contractor partly on tape and partly on first page shall be considered as duly sealed. In case of any corrections/additions/alterations/deletions is detected in the tender document vis-à-vis tender document available on website, the tender shall be treated as non-responsive, shall be summarily rejected and earnest money deposit shall be forfeited.

10. In case of any doubt in the downloaded tender, the same should be got clarified from the concerned Executive Engineer (Civil), BSNL Civil Division, Pune before submitting the tender.

11. While submitting the tender papers, tenderers shall submit the Earnest money plus cost of tender, eligibility credentials, self attested copy of PAN ,copy of enlistment , copy of EPF/ESIC registration for service appropriate to this work ,and declaration (in the format of page 5) and selfattested copy of GST in a separate sealed envelope-1 marked "Earnest Money plus cost of tender, eligibility credentials & declaration". The "Tender" shall be placed in sealed envelope-2 and will be superscripted as "Tender". The sealed envelope No. 1 & 2 containing "Earnest money plus cost of tender, eligibility credentials & declaration", and the "Tender" shall be placed in another sealed envelope -3.

All the three envelopes shall superscripted with following data on it:

(i) Name of work. (ii) Name of tenderer. (iii) Last date of receipt of tender.

12. The tender will not be opened and will be returned to the tenderer in case cost of tender document is not submitted and / or EMD is not submitted and / or the tenderer is not eligible based on the credentials submitted by the tenderer. In any case, cost of tender document will not be refunded.

13. Originals of all the credentials shall be produced by the tenderer as and when asked by the concerned Executive Engineer. In case of failure to produce the originals, the tender will not be considered and EMD will be forfeited.

14. The tenderer should in his own interest ensure that every page of the downloaded tender document is signed by him.

Note: All intending bidders are mandatorily required to have GST registration and registration with the EPFO/ESIC. The Contractors shall also submit attested copy of valid registration certificate with GST, and EPF/ESIC authorities, while applying for participation in the tender. Contractors without valid GST, and EPF/ESIC registration or those black listed by GST authorities are not eligible to submit bids.

DECLARATIONS TO BE GIVEN BY THE TENDERERS

It is to certify that

a) I / we have downloaded the tender form from the website www.maharashtra.bsnl.co.in and I/we have not added/deleted/corrected / modified the tender forms in any manner. It is identical to the tender document appearing on website. In case, the same is found to be tampered / modified I/We understand that my/our tender will liable to be summarily rejected and full amount of Earnest Money Deposit will be liable to be forfeited and I/We am/are liable to be debarred from doing business with BSNL Civil Wing.
or

I/We have checked that no page is missing and all pages as per the index are available and that all pages of tender document submitted by us are clear & legible.

I/We have signed all the pages of the tender .

Date: -

Signature of the Tenderer

Mobile :-

b) I /We have gone through BSNL W-8 amended up to correction Slip No.5 as available on website www.maharashtra.bsnl.co.in or in the office of Executive Engineer(c) and I / We agree with the terms and conditions of it and understood that it will form part of the agreement.

Date: -

Signature of the Tenderer

c) “I,S/o Shri resident of hereby certify that none of my relative (s) as defined in para 14 of BSNL W-6 is/are employed in BSNL Maharashtra East Civil Zone. 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”.

NOTE: - (To be certified by all the partners in case of partnership firms, by all the directors in case of companies).

Date: -

Signature of the Tenderer

1. Other partners 2. Shri _____ s/o Shri _____ signature:

3. Shri _____ s/o Shri _____ signature:

4. Shri _____ s/o Shri _____ signature:

BSNL-W-6



(A Government of India Enterprise)

O/o Executive Engineer (Civil), BSNL Civil Division,
1st Floor, Carrier Building, MHS Compound,
CAMP, PUNE- 411001

NOTICE INVITING TENDER

NIT No: 51(13)/NITNo15/EECP/BSNL/2024/66 **Dated 19/03/2025**

Item rate tenders are invited by The Executive Engineer (Civil), Bharat Sanchar Nigam Limited, Civil Division PUNE, First floor, Carrier Building, MHS Compound, CAMP, PUNE for and on behalf of Bharat Sanchar Nigam Limited wax sealed / adhesive tape sealed item rate tender for the following work from the approved and eligible contractors of BSNL, DOT, DOP, CPWD, MES, Railways, Maharashtra PWD (Building & Roads). The Central Govt/ Maharashtra State Government undertakings shall also be eligible for tendering.

S.No	Name of Work	Estimated cost put to Tender (Rs)
01	Construction of foundation & Erection of 15.00 metre RTT with available material at NBSNL site at Ganeshnagar in Osmanabad district, Solapur BA.	Rs. 1,65,270/- (Rs. One Lakh Sixty Five Thousand Two Hundred Seventy only)

Rules of enlistment of Contractor in BSNL 2016 are applicable.

1.1 The work is estimated to Cost: **Rs. 1,73,560/- (Rs. One Lakh Seventy Three Thousand Five Hundred Sixty only)**

1.2 Tenders will be issued to eligible contractors provided they produce proof of their valid enlistment with the appropriate authority in category appropriate to this work and have the required work experience in case not - registered with BSNL. Besides above, all tenderers shall have to mandatorily submit attested copy of the valid GST registration, proof of their valid EPF/ESIC registration, PAN number while applying for participation in the tender..

1.2.1 Criteria of eligibility for issue of tender documents for non-BSNL registered contractors of Public works organizations like CPWD, State PWD (B&R), DOT, DOP, MES, Railways is:-

1.2.1.1 For works up to Rs. 7 Lakhs - Nil

1.2.1.2 For works above Rs. 7 lakhs and up to Rs. 5 Crore, the applicant should have successfully completed similar works as per details below during the last seven years ending last day of the month previous to one in which the tenders are invited:-

a) Three similar completed works costing not less than the amount equal to 40% of the estimated cost put to tender.

Or

b) Two similar completed works costing not less than the amount equal to 50% of the estimated cost put to tender.

Or

c) One similar completed work costing not less than the amount equal to 80% of the estimated cost put to tender.

1.2.1.2.1 For the purpose of this clause 'similar works' not applicable for this work.

Note: The rounding off of the percentage of the estimated cost of work in respect of work experience will be considered to the next multiple of rupees one thousand only.

1.2.1.2.2 The experience certificate shall clearly indicate satisfactory completion of the similar work along with value of work done and date of completion and shall be issued by an authorized signatory/authority not below the rank of Executive Engineer and shall be either original or attested.

1.2.1.2.3 Non-BSNL registered contractors registered with CPWD/ State PWD (B&R)/ DOP/ MES & Railways shall submit original/attested copy of valid enlistment with the appropriate authority in category appropriate to the work.

2.0 Agreement shall be drawn with the successful tenderer on the prescribed Form No. BSNL W-7/8, which is available as a BSNL Publication/BSNL Web site www.maharashtra.bsnl.co.in. Tenderer shall quote his rates as per various terms and conditions of the said form, **(In case "Tender Documents" are downloaded from BSNL Website in which rates/percentage are to be quoted should be properly bound and wax sealed)** which will form part of the agreement.

3.0 The time allowed for carrying out the works will be **1(One)month** from the **next day after** the date of issue of letter of award of work or from the first day of handing over of the site, whichever is later, in accordance with phasing, if any, indicated in the Tender Document.

4.0 The site for the work is available -
OR

~~The site for the work shall be made available in parts:-~~

5.0 The last date of receipt of applications for issue of tender forms (In prescribed format/ can also be downloaded from BSNL Website www.maharashtra.bsnl.co.in and date of issue of tender forms will be as follows:

- i) Last date of receipt of application: **26/03/2025 up to 16:00 Hrs**
- ii) Last date of issue of tender forms: **27/11/2024 up to 16:00 Hrs.**

Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms and conditions of the contract to be complied with by the Contractor whose tender may be accepted and other necessary documents, can either be down loaded from the BSNL website www.maharashtra.bsnl.co.in or may be seen in the office of the Executive Engineer(Civil), Bharat Sanchar Nigam Limited, Civil Division Pune , First floor, Carrier Building, MHS Compound,CAMP,PUNE between 11:00 hours & 16:00 hours from date 20/03/2025 to date 27/03/2025 every day except on Sundays and Public Holidays. Tender documents, excluding standard form, will be issued from his office, during the hours specified above on payment of the following:

Rs.590.00 (Rupees Five Hundred Ninety Only)(including applicable GST) as cost of tender (Non refundable) in cash or Demand Drafts/ Pay Orders of a scheduled bank drawn in favour **Accounts Officer (Cash) O/o GMTD, BSNL, Solapur" payable at Solapur**The tender shall be accompanied by Earnest Money **Rs.3,310/- (Rupees Three Thousand Three Hundred Ten Only)** in the form of banker's cheque, deposit at call receipt of a scheduled bank/ Fixed deposit receipt of a Scheduled Bank/ Demand Draft of a Scheduled Bank issued in favour of **Accounts Officer (Cash) O/o GMTD, BSNL, Solapur" payable at Solapur.**

. When amount of earnest money is more than Rs. 5 lakhs, part of the earnest money is acceptable in the form of Bank Guarantee also. In such case, minimum 50% of earnest money (but not less than Rs 5 lakhs) or Rs 25 lakh, whichever is less, will have to be deposited in the shape prescribed above. For balance amount of earnest money, bank guarantee will also be acceptable.

(i) The tender shall be accompanied by Earnest Money along with the cost of tender, if not paid earlier, as in the case of downloaded tender from website in the form as detailed at sub Para (ii) above.

Note: Money due to contractor in any other work or earnest money of the previous call of the same work shall not be adjusted towards earnest money. The “Cost of tender” and “Earnest money” should be submitted through separate instruments.

(iv) Instruments submitted against Earnest money and Tender Cost shall be valid for 45 days from the last date of submission of bid.

Tenders, which should always be placed in sealed envelope, in the manner detailed at Para 9 below, will be received by the **Executive Engineer (Civil), BSNL Civil Division, 1st Floor, Carrier Building, MHS Compound, CAMP, PUNE-411001 up to 15:00 Hrs on dated 28/03/2025** and will be opened by him or his authorized representative in his office on the same day at 15:30 Hrs. After opening the main envelope 3, the envelope 1 containing the Earnest Money along with the cost of the tender as applicable and eligibility credentials shall be opened first. The envelope 2 containing tender shall be opened only for those tenderers whose Earnest Money, cost of tender and eligibility is found in order. **The unopened tenders shall be returned to the tenderers after the final decision on the tender is reached.**

6.0 The description of the work is as follows: -

Construction of foundation & Erection of 15.00 metre RTT with available material at NBSNL site at Ganeshnagar in Osmanabad district, Solapur BA.

Submission of Tender:

Tender shall be submitted in following manner:-

9.1 In case the tender document is downloaded from BSNL website

9.1.1 “Earnest money plus cost of tender, eligibility credentials, attested copy of Registration, attested copy of PAN, declaration (for format please refer page 5) and proof of **EPF/ESIC and/or Service registration for service appropriate to this work**” shall be placed in sealed envelope-1 marked “Earnest Money plus cost of tender, eligibility credentials & declaration”.

9.1.2 The “Tender” shall be placed in sealed envelope-2 and will be superscribed as “Tender”.

9.1.3 The sealed envelope no. 1 & 2 as above containing “Earnest money plus cost of tender, Eligibility Credentials & declaration” & the “Tender” shall be placed in another sealed envelope-3.

9.1.4 All the three envelopes shall be superscribed with following data on it.

(i) Name of work.

(ii) Name of the Tenderer.

(iii) Last date of receipt of tender.

9.2 **In case Tender document is purchased from Division office.**

9.2.1 Proof of paying the cost of tender documents, proof of payment of EMD or EMD and copies of documents showing eligibility credentials attested copy of PAN, declaration (for format please refer page 5) and proof of **EPF/ESIC and**

9.2.2 **GST and EPF/ESIC registration for service appropriate to this work** are to be placed in sealed envelope no. 1.

9.2.3 Envelope no. 2 will be as per Para 9.1.2.

9.2.4 The sealed envelopes 1 & 2 shall be placed in another sealed envelope no. 3.

9.2.5 All the three envelopes shall be superscribed with following data on it.

- (i) Name of work.
- (ii) (ii) Name of the Tenderer
- (iii) Last date of receipt of tender.

Note: In case eligibility credentials are not found in order at any stage i.e. before award of work or during execution of the work or after completion of the work, the contractor will be debarred from tendering in BSNL for three years including any other action under the contract or existing law.

9.3 The tender in which rates/ percentage are to be quoted should be properly bound and sealed (wax sealed/ adhesive tape sealed). Loose/ Spiral bound submission (in case the tender is downloaded from website) shall be rejected out rightly. In case of any correction/ addition/ alteration/ omission in tender document vis-à-vis tender document available on website shall be treated as non-responsive and shall be summarily rejected.

10.0 Copies of other drawings and documents pertaining to the work will be open for inspection by the tenderers at the office of the above-mentioned officer.

10.0.1 Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general, shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials tools and plants, water, electricity, access facilities for workers and on all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the BSNL and local conditions and other factors having a bearing on the execution of the work.

11.0 The competent authority on behalf of Bharat Sanchar Nigam Limited does not bind himself to accept the lowest or any other tender, and reserves to himself the authority to reject any or all of the tenders received without the assignment of a reason. All tenders, in which any of the prescribed conditions is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer, shall be summarily rejected.

12.0 Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders, submitted by the contractors, who resort to canvassing, will be liable to rejection.

13.0 The competent authority on behalf of the Bharat Sanchar Nigam Limited reserves with himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

14.0 The company or firm or any other person shall not be permitted to tender for works in BSNL Civil Zone in which his near relative (s) (directly recruited or on deputation in BSNL) is/are posted in any capacity either non-executive or executive employee. Near relative(s) for this purpose is/are defined as:

- (i) Member of Hindu Undivided family (HUF).

(ii) They are Husband and Wife.

(iii) The one is related to other in the manner as father, mother, son(s) and Son's wife (daughter-in-law), Daughter(s), Daughter's husband (son-in-law), brother(s), brother's wife, sister(s), sister's husband (brother-in-law).

The contractor shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relative to any executive employee/ gazetted officer in the BSNL or Department of Telecom or in the Ministry of Communications.

All the intending tenderers will have to give a certificate that none of his/her such near relative (s) as defined above is/are working in the concerned BSNL Civil Zone where he is going to apply for tender/ work. The format of the certificate is as under:-

"I, _____ S/o Shri _____ Resident of _____ hereby certify that none of my relative (s) as defined above is/are employed in concerned BSNL Civil Zone. 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".

The certificate in case of Proprietorship Firm shall be given by the proprietor; for Partnership Firm certificate shall be given by all partners and in case of Limited Company, by all Directors of the company. However, Government of India/Financial Institutions nominees and independent non-official part-time Directors appointed by Govt. of India or the Governor of the State are excluded from the purview of submission of this certificate while submitting tenders by Limited Companies.

Any breach of these conditions by the Company or Firm or any other person, the tender/ work will be cancelled and Earnest Money/ Security Deposit will be forfeited at any stage, whenever it is so noticed. BSNL will not pay any damages to the company or Firm or the concerned person but damages arising on account of such cancellation to be borne by the contractor. The Company or Firm or the person will also be debarred for further participation in the tender in the concerned BSNL Civil Zone. Further, any breach of this condition by the tenderer would also render him liable to be removed from the approved list of contractors of BSNL. If however the contractor is registered in any other Department he shall also be debarred from tendering in BSNL for any breach of this condition.

15.0 No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India/ State Government or PSU's is allowed to work as a contractor for a period of two years after his retirement from Govt. service, without previous permission of the Govt. of India or BSNL in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Govt. of India/ State Government or PSU's as aforesaid before submission of the tender or engagement in the contractor's service.

16.0 The tender for the work shall remain open for acceptance for a period of **30 days** from the date of opening of the tenders. If any tenderer withdraws his tender before the said period or issue of letter of acceptance/ intent, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the BSNL, then the BSNL shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid.

17.0 In case of works having estimated cost put to tender below Rs. 15,00,000/-, the successful tenderer shall be required to execute an agreement with the Engineer-in-charge in the Performa annexed to the tender document, within 15 days of the issue of letter of award by the BSNL. In the event of failure on the part of the successful tenderer to sign the agreement, the earnest money will be forfeited and tender cancelled.

In case of works having estimated cost put to tender Rs. 15,00,000/- and above, the successful tenderer shall, upon issue of letter of acceptance of Tender, shall be required to furnish irrevocable Performance Guarantee of 5% of the tendered amount, in the form of fixed deposit receipts or irrevocable Bank Guarantee, of requisite amount, of any scheduled bank or the state bank of India, to the Engineer-in-charge in the Performa annexed to the tender document, within 15 days of the issue of letter of acceptance of Tender by the BSNL. In the event of failure on the part of the successful tenderer to furnish the Bank Guarantee within 15 days, the earnest money will be forfeited and tender cancelled.

18.0 This Notice Inviting Tender (BSNL W-6) shall form a part of the Contract Document. In accordance with clause 1 of the contract, the letter of acceptance shall be issued first in favour of successful tenderer/ contractor. After submission of performance guarantee, the letter of award shall be issued. The contract shall be deemed to have come into effect on issue of letter of acceptance of the tender. On issue of letter of award, the successful Tenderer/ Contractor shall, within 30 days from such date, formally sign the agreement consisting of:

a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender, and, as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.

b) Standard BSNL W-7/8 as on website www.maharashtra.bsnl.co.in.

c) Agreement signed on non-judicial stamp paper as per Performa annexed to the tender document.

19.0 Payment to the contractors shall be made through e-payment System like ECS & EFT as detailed below:

a) In Cities/ areas where ECS/ EFT facility is provided by Banks, the tenderer must have Account in such ECS/ EFT facility providing Banks and that Bank Account No. shall be quoted in the tender by the tenderer.

b) The cost of ECS/ EFT will be borne by BSNL in all cases where the payment to contractor is made in a local Branch i.e. tenderer is having Bank Account in the same place from where the payment is made by the BSNL unit.

c) In case payment is made to outside Branch i.e. tenderer is having Bank Account not in the same place from where the payment is made by the BSNL unit, the crediting cost will have to be borne by the tenderer only.

d) The payments to contractors will compulsorily be made through ECS/ EFT in respect of all contracts where the value of the contract is more than Rs. 10 Lakhs.

20.0 First running account bill shall be paid only after:

a) Signing of the Agreement/ Contract by both the parties and.

b) Progress part has been prepared as required under clause 5 and approved by the competent authority.

21.0 If a contractor after purchasing the tender does not quote consecutively on three occasions, the contractor may be debarred further purchase of tenders for a period of Six Months.

22.0 General conditions and contract for works in BHARAT SANCHAR NIGAM LIMITED are available on website www.maharashtra.bsnl.co.in as well as in the Divisional/ Sub Divisional office.

23.0 The tender shall furnish a declaration to this effect (In case of downloaded tender) that no addition/ deletion/ correction have been made in the tender document submitted and it is identical to the tender document appearing on website. Every page of downloaded tender shall be signed by the tenderer with stamp (Seal) of his firm/ organization

For redressal of any complaints, following officers may be contacted:

1. CGMT,MH Circle
The Chief General Manager,Telecom MH.Circle,Admn.Bldg.A-wing,2nd floor,JuhuDanda road Santacruz (W) MUMBAI-400054. Land Line Tel No.022- 26616999 Fax No.022-26616777
2. DGM (Vig),MH Circle
The Dy.GeneralManager(Vig)O/O C.G.M.T.,MH.Circle, Admn.Bldg.A-wing, 6th floor,JuhuDanda road Santacruz (W) MUMBAI-400054. Land Line Tel No.022-26616715 Fax No.022- 26615774
3. Executive Engineer, BSNL Civil Division Pune, First floor, Carrier Building, MHS Compound,CAMP,PUNELand Line 020 26123244, Fax 0240-2331123

Executive Engineer (Civil)
BSNL Civil Division PUNE.
(For and on behalf of Bharat Sanchar Nigam Limited)

BHARAT SANCHAR NIGAM LIMITED

(A Government of India Enterprise)

STATE	Maharashtra	CIRCLE	BSNL Civil Circle MUMBAI
ZONE	BSNL Maharashtra Civil zone	DIVISION	BSNL Civil Division PUNE
		Sub Division	PUNE

Item Rate Tender and Contract for Works

Name of work **Construction of foundation & Erection of 15.00 metre RTT with available material at NBSNL site at Ganeshnagar in Osmanabad district, Solapur BA.**

- (i) To be submitted by **15:00 hours** on date 28/03/2024 to the Executive Engineer (Civil), BSNL Civil Division Pune.
- (ii) To be opened in presence of tenderers who may be present at **15:30 hours** on date 28/03/2024 in the office of Executive Engineer (Civil), BSNL Civil Division Pune.

Issued to: _____

(Contractor)

Signature of officer issuing the documents _____

Designation _____

Date of Issue _____

TENDER

I/We have read and examined Notice Inviting Tender, Schedule A, B, C, D, E and F. Specifications applicable, Drawings and Design, General Rules and Directions, Conditions of Contract, Clauses of Contract, Special conditions, Schedule of Rate and other documents and Rules referred to in the Conditions of Contract and all other contents in the Tender Document for the work.

I/We hereby tender for the execution of the work specified for the Bharat Sanchar Nigam Limited within the time specified in schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of the contract and with such materials as are provided for, by, and in respect in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for **30 days** from the due date of submission thereof and not to make any modifications in its terms and conditions. If I/We withdraw my/ our tender before the said period or issue of letter of acceptance/intent, whichever is earlier, or, makes any modifications in the terms and conditions of the tender which

are not acceptable to BSNL shall without prejudice to right of remedy, be at liberty to forfeit 50 % of the said earnest money as aforesaid.

A sum of Rupees been deposited in prescribed manner as Earnest Money. If I/We fail to commence the work specified, I/We agree that the said Bharat Sanchar Nigam Limited shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely otherwise the said earnest money shall be retained by competent authority on behalf of the Bharat Sanchar Nigam Limited towards Security Deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and carry out such deviations as may be ordered, up to maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

I / We agree that, in case of works having estimated cost put to tender exceeding Rs.15,00,000/-, to deposit an amount equal to 5% of Tendered amount of the work as irrevocable performance guarantee in the form of irrevocable Bank Guarantee of any Scheduled Bank of India or the state bank of India in accordance with the proforma prescribed or in the form of Fixed Deposit Receipt of any scheduled bank or the state bank of India etc. within 15 days of the issue of letter of acceptance of Tender by the BSNL. I/We am / are aware that in the event of failure on my / our part to furnish the Bank Guarantee within 15 days, the earnest money will be forfeited and tender cancelled.

I/We hereby intimate that for receiving payments I/We have an account in _____ Bank with account No. _____ where the ECS / EFT facility of e-payment is available.

I/We hereby declare that I/We shall treat the tender documents, drawings and other records connected with the work as secret/confidential documents and shall not communicate information derived there-from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

I/We agree that should I/We fail to commence the work specified in the above memorandum, an amount equal to the amount of the earnest money mentioned in the form of invitation of tender shall be absolutely forfeited to the Bharat Sanchar Nigam Limited and the same may at the option of the competent authority on behalf of the Bharat Sanchar Nigam Limited be recovered without prejudice to any right or remedy available in law out of the deposit in so far as the same may extend in terms of the said bond and in the event of deficiency out of any other money due to me/us under this contract or otherwise.

"I/We agree that this contract is subject to jurisdiction of court at PUNE only." (Where the NIT/ Tender has been issued)

The information in respect of works in hand is as per proforma enclosed.

Dated.....

Witness: (_____)

Signature of Contractor:

Address:

Occupation:

Postal Address:

ACCEPTANCE

The above tender, as modified by you (Contractor) and as provided in the letters mentioned (hereunder), is accepted by me for and on behalf of the Bharat Sanchar Nigam Limited for a sum of Rs. _____ (Rupees _____)

The letters referred to below shall form part of this Contract Agreement:-

- (a)
- (b)

For & on behalf of the Bharat Sanchar Nigam Limited.

Signature _____

Dated _____

Name & Designation _____

PROFORMA OF SCHEDULES

SCHEDULE "A"

"Schedule of Quantities (as per PWD-3)" - Enclosed

SCHEDULE "B"

Schedule of Materials to be issued to the contractor

S. No	Description of Item	Quantity	Rates in figures & words at which the materials will be charged from the contractor	Place of issue
1	2	3	4	5

Nil

Note: The rates at which the material shall be issued to the contractor are inclusive of 5% as storage charges.

SCHEDULE "C"

Tools and Plants to be hired to the contractor

S. No.	Description of Item	Hire charges per day	Place of issue
1	2	3	4

DELETED

SCHEDULE "D"

"Extra schedule for specific requirement/ documents for the work. If any" - "Additional conditions" attached as Schedule – D (Part A), attached as Schedule – D (Part E), "Additional specifications" attached as Schedule-D (Part C), and "Additional & Particular Specifications" attached as Schedule-D (Part D)&Schedule D (Part E) List of Approved Makes/ Brands..

SCHEDULE "E"

Schedule of component of Materials, Labouretc for escalation

CLAUSE 10 C

Component of Materials expressed as percent of Total Value of Work	"X"	75 %
Component of Labour expressed as percent of Total Value of Work	"Y"	25 %
Component of POL expressed as percent of Total value of Work	"Z"	0%

SCHEDULE "F"	
Reference to General Conditions of Contract	
Name of Work	Construction of foundation & Erection of 15.00 metre RTT with available material at NBSNL site at Ganeshnagar in Osmanabad district,Solapur BA.
Estimated cost put to tender of Work	Rs. 1,65,270/- (Rs. One Lakh Sixty Five Thousand Two Hundred Seventy only)
Earnest Money (As Para 6 of BSNL W-6)	Rs.3,310/- (Rupees Three Thousand Three Hundred Ten Only)
Performance Guarantee (5% of the tendered value in the form of Bank Guarantee or FDR of any Schedule Bank in respect of works with Estimated cost put to tender exceeding Rs. 15 Lakhs)	Rs. _____/- (Rupees _____) only
Security Deposit (10% of the tendered value for works with Estimated Cost put to tender upto Rs. 15 Lakhs) (5% of the tendered value in respect of works with Estimated cost put to tender exceeding Rs. 15 Lakhs)	Rs. _____/- (Rupees _____) only
GENERAL RULES AND DIRECTIONS	
Officer inviting tender	Executive Engineer, BSNL Civil Division, PUNE
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clause 12.2 & 12.3.	50 %
Definitions.	See below
2(v) Engineer-in charge	Executive Engineer, BSNL Civil Division, PUNE
2(viii) Accepting Authority	Executive Engineer, BSNL Civil Division, PUNE
2(x) Percentage on cost of materials and Labour to cover all overheads and profit	10 %

2(xi)	Standard Schedule of Rates	Delhi Schedule of Rates- 2023 published by CPWD with up to date correction slips and LMR
9(ii)	Standard BSNL Contract Form	BSNL W-8 form as modified and corrected up to date with correction slip no. 6.
Clause 2		
Authority for fixing compensation under Clause 2		Executive Engineer, BSNL Civil Division, PUNE
Clause 2A		
Whether Clause 2A shall be applicable		No. Clause 2A of GCC stands deleted.
Clause 3A		
Whether Clause 3A shall be applicable		Applicable
Clause 5		
i)	Time allowed for execution of work.	One month
ii)	Authority to give fair and reasonable extension of time for completion of work.	Executive Engineer, BSNL Civil Division, PUNE
Clause 6A		
Whether Clause 6A shall be applicable		Yes, Applicable.
Clause 7		
Gross value of work to be done together with net payment /adjustment of advances for materials collected, if any, since the last such payment for being eligible for interim payment.		Rs.60,000/-
Clause 10		
Reinforcement steel to be used in the work shall have to be procured :		Reinforcement steel to be used in the work shall have to be procured as below a) CTD bars manufactured by SAIL, TISCO RINL producers. b) TMT bars manufactured by SAIL, TISCO RINL producers.
Clause 10 CA		

Whether Clause 10 CA shall be applicable		NO
Clause 11		
Specification to be followed for execution of work.		CPWD Specifications 2009 Volume I to II with up to date correction slips as on the date of opening of tenders and/or item specification, as applicable.
Clause 12		
12.2 & 12.3	Limit for value of any item of any individual trade beyond which clauses 12.2. & 12.3 shall apply.	50 %
Clause 16		
Competent authority for deciding reduced rates.		The Superintending Engineer (Civil)/ Additional Chief Engineer (Civil)/ Joint Chief Engineer (Civil), BSNL Civil Circle MUMBAI , as the case may be.
Clause 36(i)		
a)	General guideline for fixing requirement of technical staff and rate of recovery in case of non-compliance, for the work shall be as per the following table:	
i)	Cost of work more than Rs. 10 lakhs but less than Rs. 50 lakhs.	One no. Graduate Civil Engineer with or without experience or one no. diploma Civil Engineer with at least 05(five) years of experience as Principal Technical Representative.
ii)	Cost of work Rs. 50 lakhs & above but less than Rs. 200 lakhs.	One no. Graduate Civil Engineer with at least 05(five) years of experience as Principal Technical Representative.
iii)	Cost of work Rs. 200 lakhs & above but less than Rs. 500 lakhs.	One no. Graduate Civil Engineer with at least 05(five) years of experience as Principal Technical Representative and One no. Graduate Civil Engineer with or without experience or one no. diploma Civil Engineer with at least 05(five) years of experience as Technical Representative.
iv)	Cost of work Rs. 500 lakhs & above but less than Rs. 1000 lakhs.	One no. Graduate Civil Engineer with at least 05(five) years of experience as Principal Technical Representative and Two nos. Graduate Civil Engineer with or without experience or two nos. diploma Civil Engineer with at least 05(five) years of experience as Technical Representatives.

v)	Cost of work Rs. 1000 lakhs and above.	<p>One no. Project manager having degree in corresponding degree of Engineering with at least 10(Ten) years of experience as Principal Technical Representative.</p> <p style="text-align: center;">and</p> <p>One no. Graduate Civil Engineer with at least 05(five) years of experience as Principal Technical Represent.</p> <p style="text-align: center;">and</p> <p>Two nos. Graduate Civil Engineer with or without experience or two nos. diploma Civil Engineer with at least 05(five) years of experience as Technical Representatives.</p>
b)	Recovery to be affected from the contractor in the event of not fulfilling the provisions of clause 36(i).	<p>Rs 30,000/- per month for Project manager having degree in corresponding degree of Engineering with at least 10(Ten) years of experience.</p> <p>Rs. 25,000/- per month for Graduate Civil Engineer with at least 05(five) years of experience.</p> <p>Rs. 15,000/- per month for Graduate Civil Engineer with or without experience or for diploma Civil Engineer with at least 05(five) years of experience.</p>
Clause 37(i)		
a	Extent of Service Tax payable by contractor for this work.	Not applicable in view of coming into force of GST law w.e.f. 01/07/2017.
Clause 42		
i) (a)	Schedule/ statement for determining theoretical quantities of Cement, Steel on the basis of Delhi Schedule of Rates 2023 published by CPWD with up to date correction slips.	
ii)	Variation permissible on theoretical quantities.	
a)	Cement for works with estimated costs put to tender	
	i) not more than Rs. 5 lakhs	3% minus
	ii) More than Rs. 5 lakhs	2% minus
b)	Steel reinforcement and structural steel sections for each diameter, section and category.	2% minus

Star prices to be considered for Escalation and Recoveries		
S No.	Material	Star price (Rate in figures and words)
1.	For Cement – Not less than 43 grade OPC conforming to IS 8112:1989	Rs. 6,440/- Per MT
2 (a)	For Mild steel	Not Applicable
2 (b)	For reinforcement Steel conforming to BIS 1786 (Fe 415 Grade)	Not Applicable
2 (c)	For reinforcement Steel TMT Bars	Rs. 52,608/- Per M.T.
2(d)	For Galvanized Steel	Rs.48.58/Per Kg

Note:-The rate for recovery under clause 42 shall be same as the star price.

**Executive Engineer (Civil),
BSNL Civil Division
PUNE**

GENERAL INSTRUCTIONS

1. The entire work shall in general conform to the C.P.W.D. Specifications for Works 2009 (Volume I & II) with all correction slips issued up to date as on the date of opening of tenders and description in the Schedule of Quantities, special conditions, latest relevant Bureau of Indian Standard codes, drawings etc.
2. All the above documents shall be considered complementary to each other. However in case of conflict among them, the following order of precedence shall be followed.
 - a) Provision in description of item(s) in schedule of quantities, including drawings, if any mentioned therein
 - b) Particular specifications, special and additional conditions etc., as stipulated in tender document.
 - c) BSNL General conditions of Contract for Civil works – **2006** with up-to-date correction slips.
 - d) C.P.W.D. Specifications
 - e) Latest relevant B.I.S. codes
 - f) Drawings not specifically mentioned in the nomenclature of the item in Schedule of Quantity
 - g) Sound Engineering Practice
 - h) Manufacturer's specifications

Decision of Engineer-in-Charge shall be final and binding.

3. Where-ever "C.P.W.D. Specification" is referred to in the tender documents; it shall mean "C.P.W.D. Specifications 2009 (Volume I & II) with all up to date correction.
4. Wherever any reference to any Indian Standard Specifications (B.I.S.) occurs in the documents relating to this contract, the same shall be inclusive of all upto date amendments or revisions.
5. Where ever "D.S.R." is referred to in the tender documents, it shall mean "C.P.W.D. **Delhi Schedule of Rates 2023** with all up to date correction slips as on the date of opening of tenders".
6. The work shall be executed and measured as per Metric Dimensions given in the schedule of quantities, drawings etc. (F.P.S. units wherever indicated are for guidance only).

**Executive Engineer
BSNL Civil Division
PUNE**

SCHEDULE D (PART A)

ADDITIONAL CONDITIONS:

1.0 GENERAL

- i) **The quoted rates for various items in the tender shall be inclusive of all the additional conditions, particular specifications and special conditions and for adherence to all these conditions and specifications. No extra payment shall be made to the Contractor.**
- ii) The intending tenderers shall note that the work is of urgent nature and is to be positively completed within the stipulated period. Therefore, only those Contractors who are confident and capable of carrying out the work within the stipulated period should apply for the work.
- To ensure good progress, the contractor shall submit a program within three (3) days to the Engineer-in-charge for completing the work within the stipulated period for work Order. Due to the urgency of the work, failure to commence the work within seven days of handing over of site would make the Contractor liable to action under the relevant clause(s) of the agreement. The Engineer-in-charge shall at his discretion have the authority to cancel the work and get the work executed by any other alternate means for which no claim shall be entertained from the contractor.
- However, if the commencement of the work is held up on account of reasons beyond his control, it shall be the sole responsibility of the contractor to bring the matter to the notice of the Engineer-in-charge and obtain permission in writing for delay in commencement of the work.
- iii) The tenderers shall take into consideration the Drawings and Specifications and quote the rates accordingly. The quoted rates shall be comprehensive complete including all charges such as insurance, transportation, taxes etc. fixed by the Central/State Government, permissions and approvals etc. **Nothing extra shall be payable over the quoted rates.**
- iv) It is likely that the work shall be executed in restricted areas and therefore a few restrictions may be in force for security/ safety purposes. The contractor shall be bound to follow all such restrictions and nothing extra shall be payable. **The tenderers shall make necessary enquiries relating to such instructions before quoting their rates and nothing extra will be payable on this account.**
- v) No departmental materials shall be issued to the contractor for the work. The Contractor shall arrange himself all materials conforming to prescribed specifications from specified sources, if any.
- vi) All materials which are to be tested for use in the work shall be procured well in advance so that enough time is available for testing and approval of these materials by the Engineer-in-charge. The civil work shall be in general be carried out in accordance with CPWD Specifications 2009 Volume I to II with up to date correction slips.
- vii) **Construction Workers Welfare Cess: Cess under building and other construction worker's welfare cess Act 1996 and building and other construction works cess rules notwithstanding anything contained in this contract, cess at the rate stipulated under Clause 3(1) of the Building and other construction worker's welfare cess act 1996, shall be recovered from the gross amount of the bill/bills payable under this contract.**

1.0 PAYMENTS

- 1.1 All tendered rates shall be inclusive of all taxes and levies [**excluding GST**], payable under respective statutes. However, if any further tax or levy or cess is imposed by statute, after the last stipulated date for the receipt of tender including extensions, if any, and the contractor there upon necessarily and properly pays such taxes/levies, the contractor shall be reimbursed the amount so paid, provided such payments, if any, is not, in the opinion of the Superintending Engineer (whose decision shall be final and binding on the contractor) attributable to delay in execution of work within the control of the contractor.

- 1.2 The Contractor shall issue an invoice/ challan along with every RA bill/ final bill/ other payments. The invoice/ challan shall have all the details as required under GST rules, as amended from time to time. In invoice GST
- 1.3 shall be shown as separate component. BSNL shall not be responsible for delays arising out of the submission of non-conforming invoices.

- 2.0 On acceptance of the tender, the contractor shall submit the Performance Guarantee (if applicable) as detailed in clause '1' of the general conditions of the contract for the complete tendered amount.
- 2.1 Clause 10CA as per rule will be .
- 2.2 Clause 2A, 3A, 6A & 10C of "BSNL General Conditions of Contract for civil works 2006" with upto date correction slips shall not be applicable.
- 3.0 In case of any change in the telephone numbers, address of the contractor, the same shall be immediately (within 02 days) intimated to all concerned in writing by the contractor.
- 4.0 In case of discrepancy in the provision of these conditions and any other condition, the provision of the special conditions will prevail.
- 5.0 For reinforcement steel, Clause 10 of Schedule -F shall be applicable.

SCHEDULE D (PART B)

General :

- i) All the restrictions enforced by the local bodies shall be abided by the Contractor while carrying out the work.
- ii) **Wherever the year of publication of any of the IS Codes mentioned above with the IS Code no. or for that matter anywhere else in the entire tender document including agreement items does not match with the year of its latest publication, the latest code shall have to be followed. In cases where only code no. sans year of publication is mentioned, the latest amended publication shall be followed.**

SCHEDULE – D (PART C)

Additional specifications

(Para 2.2.1) Stone Aggregate:

Stone aggregate used in the work shall be of hard broken stone to be obtained from (quarries) ***** and shall conform to the relevant provisions in the C.P.W.D. Specifications 2009. It shall conform to IS 383 unless otherwise specified.

(Para 2.2.2) Coarse Sand:

Coarse sand used in the work shall be obtained from ***** and conform to the relevant provisions in the specifications 2009. Grading of sand for masonry mortar shall conform to IS 216 (Table 3.2 of CPWD specifications 2009).

(Para 2.2.2) Fine Sand:

Fine sand used in the work shall be obtained from **** and shall conform to the relevant provisions in the C.P.W.D. Specifications 2009 as per grading Zone IV. Grading of sand for plaster shall conform to IS 1542 (Table 3.2 of CPWD specifications 2009)

N O T E:-

Where only one variety of sand is available, the sand will be sieved for use in finishing work, as directed by the Engineer-in-charge, in order to obtain smooth surface and nothing extra will be paid on this account.

(Para 2.8) Brick Work:

Brick used in the work shall be FPS to be obtained from ***** kilns. **They shall be well burnt and shall have a compressive strength of not less than 3.5 N/Sq mm and water absorption percentage of not more than 20% of its dry weight when immersed in the water for 24 hours.** In all other respects they shall conform to the bricks of class designations provisions in C.P.W.D. Specifications 2009 with up to date correction slip.

For & on behalf of the Bharat Sanchar Nigam Limited

Executive Engineer (Civil), BSNL Civil Division Pune

SCHEDULE -D(PART-D)**List of Approved Makes/ Brands**

Sr No.	Material	Makes approved for usage in the work (Items of approved makes conforming to schedule items and / or their CPWD specification shall be only be used
1	PVC Rain water Pipes	Suprem, Oriplsat
2	PVC RWP Accessories	Suprem, Oriplsat
3	Acrylic Distemper	Asian Paint(tractor) Berger(bison), Nerolac
4	Synthetic Enamel Paint	Asian Paint(tractor) Berger(bison), Nerolac
5	Cement Primer	Asian Paint(tractor) Berger(bison), Nerolac
6	Water proofing Cement Paint	Snowcem, Asian paint,Berger ICI
7	Wood primer	Asian Paint(tractor) Berger(bison), Nerolac
8	Lime for white Wash	Dehradun lime
9	Float Glass	AIS,Modiguard, Saint gobain,Asai
10	Orrisa W.C. Pan	Hindware ,Parryware,Cera
11	Wash Basin	Hindware ,Parryware,Cera
12	Urinal	Hindware ,Parryware,Cera
13	Kitchen sink	Hindware ,Parryware,Cera
14	Low Level PVC cistern	Slimline economy of parryware of white colour or sleek ISI of white colour of hindware
15	G.I. Pipes (medium grade	Tata ,Jindal
16	PVC Water storage Tank	Sintex, Mahavikash of non ISI grade
17	PTMT Bibcock	Prayag, Watertec
18	PTMT Ball cock	Prayag, Watertec
19	Gun Metal Gate Valve	Zoloto, Atam,Leader
20	BWR ply	Kitply , Greenply, Nation, Mayur
21	Alluminium Fitting and Fixture	ARK or Shalimar
22	C.P.Towelral	Plaza , Plumber, Hifi

Sr No.	Material	Makes approved for usage in the work (Items of approved makes conforming to schedule items and / or their CPWD specification shall be only be used
23	Ceramic Glazed wall tiles	Somani , Kajaria (conforming to IS 1522)
24	C.P.Brass Pillar Cock/Angle Valve	Plaza,Plumber
25	SCI sand S fitting	Neco or Shushila
26	CTD/TMT Bars	TISCO,SAIL and RINL
27	Hydrualic Door closer	Hardwyn or equivalent
28	Double action Hydraulic Floor Spring	Hardwyn or equivalent
29	Nickel plated MS fitting	Adam Style ,Fariyad or equivalent
30	Stainles steel Fitting	Koika ,Kozi or equivalent
31	Corrugated G.I.Sheet	TATA, Bhusan Steel
32	PVC door, Windows and their Frames	Rajashri or equivalent

NOTE:-Items of above stated makes conforming to schedule items and related CPWD specification are approved for usage in the work by the Engineer- in-Charge. In Case above stated makes are not available or makes are available but their items do not conform to the schedule item or CPWD specification , the alternative makes shall be got approve by the Engineer in Charge prior to the procurement and usage in work. For item not mentioned in the above list prior approval of the Engineer-in -charge would be required.Non Confirming items shall be dealt as per the terms and condition of the agreement. Rate shall therefor be quoted accordingly

SCHEDULE – D (PART E)

ADDITIONAL & PARTICULAR SPECIFICATIONS

GENERAL:

The quoted rates for various items in the tender shall be inclusive of all the additional conditions and particular specifications and for adherence to all these conditions and specifications, no extra payment shall be made to the contractor. Any infringement and/or breach of these specification and condition(s) etc. shall render the contractor liable to action(s) under various clauses of the contract and such action stipulated in conditions therein.

1. The Contractor shall maintain safe custody of materials brought to the site. The Contractor shall also employ necessary watch and ward establishment for the work and other purposes as required at his own cost.

1.1 For Cement and Steel and other materials, as prescribed, the quantities brought at site shall be entered in the respective material at site accounts and shall be treated as issued for maintenance of daily consumption.

2.0 The procurement of Cement and Reinforcement Steel, and, their issue and consumption shall be governed as per conditions laid down hereunder.

2.1 Cement

2.1.1 The contractor shall procure 43 grade (conforming to IS:1489) PCC, as required in the work, from reputed manufactures of cement, having a production capacity of one million tons per annum or more, such as ACC, Ultratech, Vikram, Shree cement, Ambuja, Jaypee cement, Century cement & JK cement having license to use ISI certification mark for their product whose name shall be got approved from Engineer-in-Charge. **OPC 43grade conforming to IS: 8112 can also be used but nothing extra shall be paid to the Contractor.** It shall also be procured from reputed manufacturers stated above. Supply of cement shall be taken in 50 kg bags bearing manufacture's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of the relevant BIS codes. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so.

2.1.2 The Cement shall be brought at site in bulk supply of approx 50 tons or as decided by the Engineer-in-Charge.

2.1.3 The Cement go-down of the capacity to store about 2000 bags of cement or as decided by Engineer-in-Charge shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-Charge or his authorized representative and the key of other lock shall remain with the contractor. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.

2.1.4 The contractor shall supply free of charge the cement required for testing. The cost of tests shall be borne by the contractor/ Department in the manner indicated below:

- i. By the contractor, if the results show that the cement does not conform to relevant BIS codes.
- ii. By the Department, if the results show that the cement conforms to relevant BIS codes.

3.0 STEEL

3.1.1. The contractor shall procure steel reinforcement bars conforming to relevant BIS codes from main producers as approved by the Ministry of steel. **In case of non-availability of steel from primary producers, the Engineer-in-charge may permit use of TMT reinforcement bars from steel producers having integrated steel plants (ISPs) using iron ore as the basic raw material for production of crude steel which is further rolled into finished shapes in-house and having crude steel capacity of 0.5 million ton per annum or more. In case of non-availability of steel from primary producers as well as ISPs, the Engineer-in-charge may permit use of TMT reinforcement bars from secondary producers. In such cases following action to be taken:**

- (a) The grade of the steel such as FE 500 D or other grade shall conform to BIS 1786-2008.
- (b) The secondary producers must have valid BIS license to produce HSD bars conforming to IS 1786-2008. In addition to BIS license, the secondary producer must have valid license from either of the firms Tempcore, Thermex, Evcon Turbo & Turbo quench to produce TMT bars.
- (c) The TMT bars procured from primary producers and ISPs shall conform to manufacturer's specifications.
- (d) The TMT bars procured from secondary producers shall conform to the specification as laid by Tempcore, Thermex, Evcon Turbo & Turbo quench, as the case may be.
- (e) TMT bars procured either from the primary producers or secondary producers, the specifications shall meet the provisions of IS 1786:2008 pertaining to Fe 500 D grade of steel.
- (f) In case the contractor is permitted to use TMT bars procured from ISPs or secondary producers then:
 1. The star price of TMT bars as stipulated in the table above shall be reduced by Rs8600/- per metric ton.
 2. The rate of providing & laying TMT bars as quoted by the contractor in tender shall also be reduced by Rs9.46 per kg (the rate of reduction shall be same as "1" above converted to per kg plus Contractor's profit and overheads as applicable i.e. 10%).

(2) The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.

(3) Samples shall also be taken and got tested by the Engineer-in-charge as per provisions in this regard in the relevant BIS codes. In case the test result indicates that the steel arranged by the contractor does not confirm to the specifications as defined under Para 3.1.1 (d) & (e) above, the same shall stand rejected and it shall be removed from the site of work by the contractor at his own cost within a week's time from the date of written order from the Engineer-in-charge to do so.

3.1.2. The steel reinforcement shall be brought to the site in quantity of lots as approved by the Engineer-in-charge.

3.1.3. The steel reinforcement shall be stored by the contractor at site of work in such way as to prevent distortion and corrosion and nothing extra shall be paid on this account. Bars of different sizes (diameters) and lengths shall be stored separately to facilitate easy counting and checking.

3.1.4. For steel procured from main producers or secondary producer, for checking nominal mass, tensile strength, bend test, etc. specimen of sufficient length shall be cut from each diameter of the bar at random at frequency not less than that specified below. In case of works costing more than Rs. 2 Crores and when the steel is procured from other than main producers, additional tests such as, retest, re-bend test, elongation test, proof-stress may also be conducted.

Size (Diameter) of bar	For consignment	
	Below 100 tonnes	Over 100 tonnes
Under 10m dia. bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof
10mm to 16 bars mm dia.	One sample for each 35 tonnes or part thereof	One sample for each 45 tonnes or part thereof
Over 16mm dia bars	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof

3.1.5. The contractor shall supply free of charge the steel bars required for testing. The cost of tests shall be borne by the contractor/ Department in the manner indicated below:

- i. By the contractor, if the results show that the steel does not conform to relevant BIS codes.
- ii. By the Department, if the results show that the steel conforms to relevant BIS codes.

3.1.6 Coefficient of weight i.e. the weight per unit length of the steel procured by the contractor shall be ascertained at site before using it and certified by the Engineer-in-charge. In case weight per unit length is beyond the rolling margin as laid down in the BIS: 1786, the steel will be rejected and shall be removed from the site of work within; a week's time from written order from the Engineer-in - Charge to do so. In case weight per unit length is more than the standard coefficient of weight for the diameter, but is within the rolling margin, then the payment shall be made as per the standard weight per unit length, and, where the weight per unit length is lesser than the standard coefficient of weight for the diameter, but is within the rolling margin, the payment shall be restricted with respect to the actual weight per unit length of the diameter.

3.2 The standard sectional weights referred to in standard table under para 5.3.3, page 75 of the revised CPWD specifications 2002 for cement mortar , cement Concrete and RCC works, are to be considered for conversion of length of various sizes of Steel Reinforcement bars into weight and are reproduced below ready reference.

SIZE (mm)	WEIGHT (Kg/M)	SIZE(mm)	WEIGHT (Kg/M)
6	0.222	20	2.470
8	0.395	22	2.980
10	0.617	25	3.850
12	0.888	28	4.830
16	1.580	32	6.310
18	2.000	36	7.990

3.3 The actual issue and consumption of steel and Cement on the work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein.

3.4 Steel and Cement brought to site and remaining unused shall not be removed from site without written permission of the Engineer-in-charge.

3.5 Cement used in ready mix concrete shall be evaluated based on the certification by the in-charge of the RMC plant in accordance with design approved by the Engineer in-charge.

4.0 No payment shall be made to the contractor for any damage caused during the execution of work because of cause(s) not covered under Clause 43 of the Contract. The damage to work will be made good by the contractor at his own cost, and no claim on this account shall be entertained.

4.1 Some restrictions may be imposed by the Statutory Authority etc. on the working and/ or movement of labour, materials etc. and the contractor shall be bound to follow all such restrictions/ instructions and nothing extra shall be payable on this account.

4.2 The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fees and charges which he may be liable and nothing extra shall be payable on this account. The work shall be carried out without infringing on any of the local Municipal Bye-Laws.

4.3 The rate for every item of work to be done under this contract shall be for all heights, depths, lengths and widths of the structure (except where specially mentioned in the item) and nothing extra will be paid on this account.

4.4 The contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards such as day and night boards, speed limit boards and flags, red lights and providing barriers etc. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of work. Nothing extra shall be paid on this account.

4.5 The contractor will work in close liaison, during the works, with other contractors of water supply, sanitary, drainage arrangements, electrical installation and any other works and adjust his work plan accordingly.

5.0 **Other Taxes and Royalties**

5.1 **Income Tax and surcharges over Income Tax** etc. at the rates fixed by the Ministry of finance, Government of India, shall be deducted from all the running and final bills of the contractor. Should there be any increase in rate of Income Tax and surcharge during execution of the contract, the same shall be payable by the contractor.

5.2 **Royalty** shall have to be paid by the contractor on all materials such as stone, bricks, boulders, metal, shingle, bajri, stone aggregate, coarse sand and fine sand etc. or any other materials used for the execution of the work direct to the Revenue Authority of the District/State Govt. concerned.

5.4 **GST: - As per the “PARTICULAR SPECIFICATIONS AND SPECIAL CONDITIONS FOR COMPLYING WITH THE GST LAW WHICH HAS COME INTO FORCE WITH EFFECT FROM 01/07/2017”.**

6.0 Secured Advance:

6.1 Secured advance on bricks, stone, stone aggregate brought at site for use in the work shall be paid only after receipt of satisfactory test results from the laboratory and provisions under rules.

6.2 Secured advance on steel doors, steel windows, etc. shall be paid only after the Engineer-in-Charge has personally verified that the materials brought at site of work, for use in work, conforms to the sample approved by him.

6.3 Departmental materials for tower shall be issued to the contractor for the work. In the event of any loss/damage of the departmental materials for which the certificate of the Engineer -in-Charge and cost of recovery as decided by him shall be final and binding.

6.4 The contractor shall within 7 (Seven) days of issue of award letter intimate to the concerned sub – Divisional Engineer & Executive Engineer regarding the make / brand / manufacturer of the cement, steel etc, he intends to use in the work.

7.0 The make / brand once approved shall not be changed during the currency of the agreement until revised by the Engineer-in-charge.

SPECIAL CONDITION FOR TOWER WORK

The following conditions shall be applicable in addition to other conditions given in tender form. Nothing extra shall be paid on these accounts unless otherwise mentioned.

- 1.0** All structural steel members like high tensile steel angles, Tees and Plates etc. shall be conforming to IS: 2062-2006 and IS: 8500-1991. The contractor shall procure all structural steel members i.e. Angles, tees, Plates, nuts & bolts etc. (as required) conforming to relevant I.S. Codes from main producers as approved by the Ministry of Steel namely SAIL, TISCO and RINL or BIS approved. However, in case of procurement from other BIS approved manufacturers, prior approval of BSNL shall be required and materials from approved manufactures are only allowed to be used in the work. However, the material procured from other BIS approved manufacturer may also be allowed provided the samples of the materials proposed to be used are got tested by the Engineer-in-charge, and the same is successfully passed on all parameters as per provisions of the relevant I.S. Codes. In case the test results indicate that the steel arranged by the contractor does not conform to I.S. Codes, the same shall stand rejected and shall be removed from the site of work within three days from date of receipt of written order of the Engineer-in-charge to do so. The proof of manufacturer of structural steel members from virgin billets purchased from main steel producers is to be furnished by the agency before tower members/ templates are cut.
- 2.0** The Nuts, bolts, plain / spring washers shall be procured from producers approved by Power Grid Corporation of India or equivalent. Nuts and bolts of grade 5.6 conforming to relevant IS codes as per IS: 6639-1972, IS: 12427-2001, IS: 1363 (Part I)-1992 IS: 1364-2002, IS: 1367-2002 (Part 8) and plain washers as per IS: 6610-1972 & spring washers of type 'B' as per IS: 3063-1994 shall be used.
- 3.0** Erection of the tower and painting shall be done through specialized agencies only and all safety precautions shall be taken in accordance with safety code for erection of structural steel work (IS: 7205)
- 4.0** Agency executing the Transportation and erection of towers should take all precautions to see that no damage occurs to the adjoining structures while executing the work. Also, all the workers on the execution site should be adequately insured along with third party insurance for any unforeseen injury to passerby or occupants of adjoining buildings. Agency shall be solely responsible for any mishap on these accounts.
- 5.0** The site of work may be changed by the Engineer-in-charge due to exigencies of the service within/ adjoining revenue districts for which nothing extra shall be payable except the approved contract rates.
- 6.0** The mounting structure for antenna shall be of steel work and shall be such as to allow a nominal azimuth adjustment of (+/-) 5 degree and an elevation adjustment of (+/-) 5 degree. The design of antenna supporting cage and platform shall be in accordance with the specification given.

7.0 STRAIGHTENING

All materials shall be straightened and or flattened by pressure unless required for a shape of curvilinear form before fabrication and shall be free from twists. Straightening shall not damage the material. The parts when assembled adjacent surfaces shall be in close contact. Hammering shall not be permitted for straightening. Sharp kinks or bends shall be rejected.

8.0 CUTTING

Cutting may be affected by shearing, flame cutting or sawing. The surface so cut shall be clean, smooth, square and free from any distortion.

9.0 HOLES

- (i) Holes for bolts shall be drilled using jigs provided with hardened steel bushes and shall not be punched or formed by flame cuttings process. All drill burns shall be completely removed. Drilling of holes shall be done before galvanizing.
- (ii) Holes on both sides of the bend line in a bent member shall be drilled after bending. The relative position of these holes shall be checked using proper templates.
- (iii) Holes shall be circular and of a diameter 1.5 mm more than the dia. of the bolt.
- (iv) Holes shall be drilled at right angles to the surface of the plates or angles, unless otherwise specified.
- (v) The accuracy of location of hole shall be such that for any group when assembled they shall admit the bolt at right angles to the plane of the connection.
- (vi) Spacing of bolts and edge distances shall be in accordance with IS 800-1984.
- (vii) Butting ends of main leg members shall be cut with saw. Flame cutting or shearing shall not be permitted.

10.0 TOLERANCES

Fabrication tolerance shall not exceed those specified in IS 7215-1974 as applicable to group "B" structure.

11.0 GALVANIZING

- 11.1 Hot dip galvanizing protects steel from corrosion by providing a thick, tough metallic zinc coating, which completely covers the steel surface and seals it from the corrosive action of its environment. The galvanized coating provides outstanding abrasion resistance. Where there is damage or minor discontinuity in the coating of zinc, protection of the steel is maintained by the cathodic action of the surrounding galvanized coating. Metallic zinc is strongly resistant to the corrosive action of normal environments and hot dip galvanized coatings therefore provide long-term protection for steel.

- 11.2 Zinc for galvanizing should conform to IS 13229-1991.
- 11.3 All members and fasteners of Tower member/ bolts are to be hot dip galvanized. Galvanizing of members of the tower shall conform to IS 4759 and 2629. Bolts and other fasteners shall be galvanized in accordance with IS 1367 (part 13). The total mass of galvanizing coating shall not be less than 610gm/sqm (i.e.85 micron) thickness.

12.0 PAINTING

Painting of galvanized steel towers is required to give additional protection and to give 'Day warning' as per additional protection and civil aviation specifications. Painting shall be done by specialized agencies only and all safety precautions shall be taken in accordance with the safety code for erection of steel tower.

12.1 COASTAL AREA

All steel galvanized sections like L angles, flats, tubular sections, bolts and nuts etc. shall be given a coat of ETCH primer. Zinc Chromate primer shall be applied over ETCH primer. Synthetic enamel paint of two or more coat thickness shall be applied over the above.

12.2 NON COASTAL AREA:

In the non-coastal area Zinc Chromate may be applied instead of zinc phosphate painting shall be done in accordance with IS 1477 Part I & II. Priming coat of zinc Chromate/phosphate shall conform to IS 104.

12.3 CLEANING

Dust, grease and rust on galvanized tower members namely angles, tees, plates railing, ladders, racks etc. shall be removed by wire brushing and cleaned with a piece of cloth.

12.4 APPLICATION OF ETCH PRIMER

After cleaning the tower members a first coat of an etch primer has to be applied to the tower structure members. The etch primer consists of polyvinyl butyl phosphoric acid catalyst and zinc chromate base and are supplied separately. They should be mixed before use in specified ratio of four parts base to one part catalyst or as specified by the manufacturer. The primer is to be applied uniformly to get a very thin and almost invisible coat and every part of the tower structure should be treated with this primer. Subsequent painting of the zinc chromate primer/zinc phosphate primer should be commenced within two hours of application of the primer. The etch primer once mixed should be used up immediately.

12.5 APPLICATION OF PAINT

After 48 hours of application of primer, the first coat of the paint should be applied carefully, well brushed into the surface, corners, crevices etc. should be uniform and even. The second coat of paint should be applied 48 hours after the application of the first coat.

Care should be taken to see that the painting is not carried out at the hottest time of the day and air pockets should be avoided.

12.6 **SPECIAL REMARKS**

(i) The painting shall be done carefully so that all corners and crevices of the mast receive the paint and no base surface is left exposed anywhere. Special care is to be taken in applying paint at the place where galvanized coating has got removed.

(ii) No driers such as Litharge or Turpentine are to be used. The practice of mixing kerosene oil with paint is strictly forbidden.

(iii) The primer and the paints used should be got approved prior to their use.

(iv) The painting shall conform to civil aviation guideline.

12.7 **PAINTS**

Paints shall be synthetic enamel of the best quality and anticorrosive and withstand exposures to outside conditions. They should be of standard quality equivalent to synthetic enamel paint of Shalimar or Berger paints or Asian paints.

12.8 **ORANGE AND WHITE BANDS (DAY MARKINGS)**

To conform to Civil Aviation regulations the towers shall be painted in alternate bands of international orange and international white, terminating with orange at top and the bottom, Height of each band should be not exceed 6 metres and should not be less than 0.5 mt. The correct shade for the international orange corresponds to ISI shade 592 as given in the Indian Standard Institution Publication-colours for ready mixed paint, IS: 1755, IS: 2732-1964.

13.0 **RECTIFICATION / REPAIRS TO DAMAGED PARTS**

13.1 Damaged components of the steel work should be rectified as per directions of the Engineer-in-charge minor damages to the galvanizing shall be made good by cleaning the damaged portion free of all rust and applying a zinc rich paste to the same thickness as the original coat of galvanizing.

13.2 Members of components, which are dented, bent or twisted in transit or by handling during erection shall not be used on work but shall be replaced as directed by the Engineer-in-Charge.

14.0 **ERECTION**

(i) It shall be ensured that structural components with correct markings as indicated in drawings are used in correct position.

(ii) At the base connections the foundation bolts shall be located correctly using templates and grouted ensuring that all templates are in one horizontal plane. After erection of the first panel, its verticality shall be checked and corrected if necessary.

(iii) Further erection work shall proceed panel-by-panel, bolts and nuts shall be finally tightened up to the torque specified using torque wrenches. Verticality of the tower shall be checked after complete erection of each panel. Each panel shall be completed in all respects and shall have the approval of the Engineer-in-charge before proceeding to the next panel.

(iv) If a panel is to be left incomplete, it shall be ensured if necessary by erection of temporary bracings that all the members erected form a stable configuration, sufficient to withstand dead and wind loads.

(v) The joint shall be made by drawing the light members into position with barrel drifts. Drifts may be used on the heavier members only to secure them in correct position. No member shall be force fitted. Any error in steel work, which prevents the assembly and fitting up to the parts by the proper use of drifts, shall be investigated immediately. If any defect or deficiency in the member comes to notice, the same shall be rectified as per directions of the Engineer-in-Charge.

(vi) Packing plates shall be provided at the joints as shown on approved drawings in order to make up the change in the thickness of the parts jointed. No other packing plates shall be used.

(vii) Hot dip galvanized bolts and nuts and washers of grade 5.6 shall be provided in all connections involving leg member's main diagonals as well as horizontal through inter section of the main diagonals in k brace, panels and plain bracings

(viii) Hot dip galvanized contact surfaces of joints providing with hot dip galvanized bolts nuts and washers shall be free of oil, paint and lacquer or other coatings and shall be scored by wire brushing or light blasting after galvanization and prior to assembly.

(ix) Bolts used for connections shall not be less than 12mm dia. And the length shall be such that not more than half of the pitch of the thread lies inside the grip length. The threaded portion of the bolt shall protrude by not less than 3mm beyond the lock nut after it has been fully tightened.

(x) Bolts and nuts shall be tightened by using the part turn method. The nut shall be brought to the snug, tight position after which it will be given a further half to one turn depending upon the length of the bolt. In joints with several fasteners all the nuts bolts shall be brought to the snug tight position, before tightening further systematically. The nut rotation from snug tight condition is given in the table below:

NUT ROTATION FROM SNUG TIGHT CONDITION

Bolt length (as measured from	Bolts faces	One face normal To bolt axis & other	Bolt faces slope not more than 1:20 from normal
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underside of head to extreme end of point)	Normal to bolt axis.	face sloped not more than 1:20 (bevel washer not used)	to bolt axis (bevel washers not used).
Upto including 4 dia.	1/3turn	1/2 turn	2/3 turn
Over 4 dia. But not exceeding 8 dia.	1/2 turn	2/3 turn	5/6 turn
Over 8 dia. But not exceeding 12 dia.	2/3 turn	5/6 turn	1 turn.

(xi) Alternatively, nuts may be tightened using a calibrated wrench so that the proof load of the bolt specified in IS 1367 is achieved “snug tight is defined as the tightness attained by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench. Following this initial operation, bolts shall be placed in remaining holes in the connection and brought to snug tight position”.

14.1 VERTICALITY TOLERANCES

The verticality of towers of different heights shall be within the provisions of Table-1(III)(b) of IS:12843:1989, viz. $+ H / 1000$ or ± 20 mm (whichever is less) and $H/1500$ or ± 25 mm (whichever is less) for towers up to and including 30M height and over 30M height respectively. (H refers to the height of tower).

14.2 WORKING PLATFORM AND LADDER

A set of 3 (three) platform with railing as per the drawing shall be provided at height of 34M, 36.4M and 38.8M respectively. A resting platform shall also be provided at a height of 20M from the ground level as per the details provided in the specifications. A ladder up to the top most platform inside the tower and cable tray assembly shall also be provided as per the specifications attached.

A working platform with railings is provided at a height from where erection and maintenance of Antenna, Aviation lamps, Lightning arrester etc. can be done easily. A ladder from rooftop up to top of platform at tower is provided with safety rings. Width of ladder shall be minimum 300 mm and safety ring of 750 mm shall be provided. Entry from ladder up to top of platform shall be such that no extra efforts will require to reach at the platform. Width of platform should be minimum 600mm.

15.0 WAVE GUIDE

A tray of galvanized m.s. angle and flats of 600 mm width shall be provided as wave-guide to carry the feeder cables from Antenna fixed at top of tower up to the BTS. This shall not bend sharply at right angles at turning point to avoid damage to running feeder cables.

Waveguide is provided in towers to carry the feeder cables from Antenna fixed at top of tower up to Transmission room. It is a tray of galvanized M.S. angles and Flats of 600mm width.

- (a) Wave guide should enter straight into the termination at last length.
- (b) Precaution should be taken to avoid twisting of the wave-guide while tightening the nut of the termination flange.
- (c) Twisting can be permissible by an amount of 1 over 5 meters of wave guide length.
- (d) Bend in the wave-guide should be less than 2M diameters.
- (e) Wave-guide should be clamped suitably at all the stages on wave-guide rack and at proper places at approx. every 2 meters length in bend portion.

16.0 MEASUREMENTS

- 16.1 Unless otherwise specified, for new members required for erection, the payment shall be made on weight basis. The weight shall be calculated as under.
- 16.2 The weight of all the structural members including tees, angles, channels, flats, rods, bars, tubes, gusset plates, splice plates, chequered plates, cleats, brackets, antenna, holding pipes, lightning arrestor pipe etc. shall be measured as given below.
- 16.3 The weight of nuts & bolts, washers, packing pieces etc. shall not be measured for payment purposes.
- 16.4 The actual dimensions (length & width) of the members shall be measured in running meters correct to a centimeter and the thickness shall be measured correct to a millimeter.
- 16.5 For calculation of weight, the coefficients as given in the standard tables of BIS codes shall be followed.
- 16.6 In case the coefficients are not available in BIS Codes, than the coefficient available in other standard tables shall be followed.
- 16.7 In case the coefficients are neither available in BIS Codes nor in other standards, than the coefficients shall be derived based on actual weight taken at site.
- 16.8 In case none of the above is possible, the actual weight shall be measured at site before erection.

- 16.9 No deductions shall be made for rivet or bolt holes made as per drawings and no additions shall be made in weight due to galvanizing of the members.
- 16.10 If actual weight measured at site, is less than the weight as per BIS codes/ other standards, then the actual weight shall be measured.

17.0 PROTECTION OF LIFE, PROPERTY AND EXISTING FACILITIES:

- 17.1 The contractor is fully responsible for taking all possible safety precaution during preparation for and actual performance of the works, and for keeping the construction site in a reasonable safe condition. The Contractor shall protect all life and property from damage or losses resulting from his construction operations and shall minimize the disturbance and inconvenience to the public.
- 17.2 In this connection, the attention of the contractors are drawn to the safety measures and precautions including code of conduct while safely carrying out the work and also detailed Engineering Instructions enumerated in this tender document.
- 17.3 The contractor shall be solely liable for all expenses for and in respect of repairs and / or damage occasioned by injury of or damage to such underground and over-ground structures or other properties and undertake to indemnify and keep indemnified the BSNL from and against all actions, cause of actions, damages, claims and demands what-so-ever either in law or in equity and all losses and damages and costs (inclusive between attorney and client), charges and expenses in condition therewith and / or incidental thereto.
- 17.4 The current market value of any commodities lost as a result of any damage to the aforesaid existing facilities shall be paid by the contractor together with such additional sums necessary to liquidate the personal or property damages resulting there from.

18.0 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, materials, etc. brought to the site and for all the work during the execution. The contractor shall also take out workmen's compensation insurance as required by law and undertake to indemnify and keep indemnified the BSNL from and against all manner of claims and demands and losses and damages and cost (including between attorney and client) charges and expenses that may arise in regard the same or that the BSNL may suffer or incur with respect to and/or incidental to the same.

19.0 INDEMNITIES:

- 19.1 The contractor shall all the times hold the BSNL harmless and indemnify from against all actions, suits, proceedings, works, cost, damages, charges, claims and demands of every nature and descriptions brought or procured against BSNL, its officers, and employees and forthwith upon demand and without protest or demur to pay the BSNL any or 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 or other legal proceedings, charges and expenses and liabilities resulting from or incidental or in connection with injury, disease or disablement to or death of any person(s) including employee(s) of the contractor or damage to property resulting from or arising out of or in any way connected with or incidental to the operations caused by the contract documents. In addition the contractor shall reimburse the BSNL or pay to the BSNL forthwith on demand without protest or demur all costs, charges and expenses and losses and damages otherwise incurred by it in consequences of any claims, demand and actions which may be brought against the BSNL arising out of or incidental to or in connection with the operation covered by the contract.

- 19.2 The contractor shall at his own cost at the BSNL 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.
- 20.0 The work shall be executed as per programme approved by the Engineer-in-charge of the work. No claim whatsoever will be entertained on this account.
- 21.0 No payment shall be made to the contractor for any damage caused during the execution of work because of cause(s) not covered under Clause 43 of the Contract. The damage to work will be made good by the contractor at his own cost, and no claim on this account shall be entertained.
- 22.0 Some restrictions may be imposed by the security staff etc. on the working and/ or movement of labour, materials etc. and the contractor shall be bound to follow all such restrictions/ instructions and nothing extra shall be payable on this account.
- 23.0 The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fees and charges which he may be liable and nothing extra shall be payable on this account. The work shall be carried out without infringing on any of the local Municipal Bye-Laws.
- 24.0 The rate for every item of work to be done under this contract shall be for all heights, depths, lengths and widths of the structure (except where specially mentioned in the item) and nothing extra will be paid on this account.
- 25.0 The contractor shall maintain in good condition all work during execution till completion of entire work allotted to him.
- 26.0 The contractor shall cause the site to be cleared thoroughly of rubbish, scaffolding materials etc. before the actual date of completion of the work as well as time to time as per directions of the Engineer-in-charge of the work.
- 27.0 The contractor shall make his own arrangement for obtaining electrical connection, if required and make necessary payments directly to the department concerned.

- 28.0** The contractor shall be responsible to arrange at his own cost all necessary tools and plants required for execution of the work.
- 29.0** The rate of all items of work, shall, unless clearly specified otherwise, include cost of all labour, material and other incidental inputs involved which are essential to complete the work as per entire satisfaction of the Engineer-in-Charge.
- 30.0** For the purpose of recording measurement for preparing running account bills, the abbreviated nomenclature indicated in the standard schedule of rates relevant to the contract may be adopted. The abbreviated nomenclature shall be taken to cover all the materials and preparations as per the complete nomenclature of the relevant items in the agreement and other relevant specifications.
- 31.0** In case of items for which abbreviated nomenclature is not available in the standard relevant schedule of rates and also in the case of extra and substituted items of work for which abbreviated nomenclature is not provided in the agreement the full nomenclature of items shall be reproduced in the measurement books and bill forms for running account bills.
- 32.0** Whenever any reference to any Indian standard specifications occurs in the documents relating to this contract the same shall be inclusive of all amendments issued thereto if any, up to the date of receipt of the tender.
- 33.0** The contractor shall take instruction from the Engineer-in-Charge regarding collection and stacking of materials at any place.
- 34.0** The site of work should be seen by the tenderer before quoting his rates with respect to approaches to the site and conditions of the same. If any approach road from main road is required at the site or existing approach is to be improved and maintained, for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost.
- 35.0** If as per municipal rules the huts for labourers are not to be erected at the site of work by the contractor, the contractors are required to provide such accommodation as is acceptable to local bodies and nothing extra shall be paid on this account.
- 36.0** The contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards such as day and night boards, speed limit boards and flags, red lights and providing barriers etc. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of work. Nothing extra shall be paid on this account. Any damage done by the contractor to any existing work during the course of execution of the work awarded to him shall be made good by him at his own cost.

PARTICULAR SPECIFICATIONS AND SPECIAL CONDITIONS FOR COMPLYING WITH THE GST LAW WHICH HAS COME INTO FORCE WITH EFFECT FROM 01/07/2017.

1. The Goods and service tax, hereinafter referred to as GST, has been implemented by the Government of India with effect from 1st July 2017. The rates quoted by the Contractor shall be inclusive of all taxes/ levies/ cess etc. except the GST. GST as per applicable rates shall be paid as per the relevant law and rules framed thereunder by the GST authorities. The GST shall be payable only to those Contractors who submit the details of GST registration to BSNL. Any further amendment notified by GOI in GST rules during the currency of the agreement shall also be applicable without any separate notice.
2. With the implementation of GST the service tax stands subsumed in GST. There will not be any reimbursement of Service tax and the Clause 37 of GCC 2006 stands modified accordingly. **Moreover, reference of service tax anywhere in the tender document or NIT or GCC or correction slips shall be treated as redundant and not applicable along with the related enabling provisions with respect to the service tax.** Income tax TDS, TDS towards GST, workers welfare cess deductions & other statutory deductions etc shall be made at source as per the prevalent laws, as and when applicable.
3. The Contractor shall comply with the Central Goods and service tax Act, 2017, Integrated Goods and service tax Act, 2017, the relevant SGST and UTGST Acts and the rules framed thereunder and as amended from time to time. The Contractor shall get himself registered and get the registration code from the relevant authorities as per the provisions of the Act.
4. The Contractor shall indemnify and keep indemnified BSNL against any loss of input tax credit, **hereinafter called ITC**, caused to BSNL in case where the Contractor gets black listed by the GST authorities during the tenure of the BSNL contract either due to his own default or for any other reason whatsoever. BSNL would not be able to avail ITC in case the Contractor is GST black listed i.e has poor compliance rating.
5. The Contractor should furnish the correct **HSN/ SAC code** in his tax invoice. If the credit for duties, taxes and cesses under provisions/ rules under GST law is found to be not admissible at any stage owing to wrong furnishing of tariff head, then the Contractor will be liable to refund such non-admissible amount, if already paid, along with penalty and interest, if charged, by the concerned authority.
6. In case duties, taxes and cesses which are not eligible for ITC as per the quoted rates indicated in the price schedule and subsequently at any stage it is found that credit for such duties, taxes and cesses is admissible as per provisions of GST law, then the Contractor will be liable to refund the amount equivalent to such duties, taxes and cesses, if already paid to them, provided the credit can be claimed within the time prescribed under the applicable legislation and BSNL has all the documents to claim such credit. The refund is also subject to the Contractor performing necessary act for enabling BSNL to claim the credit viz. uploading the information on GSTN. However, BSNL may allow the Contractor to submit necessary documents in this regard which may enable the BSNL to avail the ITC provided such credit is still available for the amount so paid as per provisions of the GST law.
7. BSNL reserves the right to ask the bidders to submit documentary proof confirming the correct HSN or SAC classification etc from the CGST/ SGST/ IGST authority where the HSN or SAC Classification furnished against the particular contract by different bidders differ from each other or the same is found apparently not furnished in accordance to the GST act and/or rules framed thereunder.
8. If the Contractor fails to furnish necessary supporting documents i.e. tax invoices etc. in respect of the duties, taxes and cesses which are eligible for ITC, the amount pertaining to such duties, taxes and cesses will be deducted from the payment due to the Contractor.
9. If the Contractor fails to perform necessary compliances which would in any manner restrict BSNL to claim ITC, then the amount pertaining to such duties, taxes and cesses will be deducted from any payment due to the Contractor.

10. If the Contractor does not disclose the correct details on the invoice or on the GSTN viz. GSTIN, place of supply etc. which would in any manner restrict BSNL to claim ITC, then the amount pertaining to such duties, taxes and cesses will be deducted from any payment due to the Contractor.

11. For claiming the payment the following documents are to be submitted by the Contractors to the Engineer-in-charge:

- (i) GST compliant tax invoice.
- (ii) Acknowledged delivery challan, if applicable.
- (iii) E-way bill as prescribed in the GST law in case of movement of goods.
- (iv) Proof of payment of GST, if applicable.
- (v) Timely uploading of correct and necessary information on GSTN portal is mandatory as prescribed in GST compliances.

Notes :

(1) In case the Contractor fails to furnish necessary supporting documents i.e GST tax invoice etc. and also fails to upload the information on GSTN in respect of duties/ taxes for which ITC is available, the amount pertaining to such duties/ taxes will be deducted from the payment due to the Contractor.

(2) Tax amount will be paid to the Contractor only after the Contractor declares the details of the invoice in his return in GSTR-1 and GSTR-3 uploaded by the Contractor and the same is reflected in GSTR-2A of BSNL on GSTN portal.

(3) TDS/ TCS shall be deducted at the prescribed rate, if any, as the case may be.

(4) BSNL can adjust/ forfeit bank guarantee or can adjust from any other payment due to the Contractor any loss of ITC caused to BSNL on account of Contractors default.

(5) In case BSNL has to pay GST on reverse charge basis, the Contractor would not charge GST on its invoices. Further, the Contractor undertakes to comply with all the provisions of GST, as applicable.

12. Necessary declaration, statutory forms, if any, shall be provided by BSNL to avail concessional rate of tax wherever applicable, on the request of the Contractor as and when asked for.

13. Any sum of money due and payable to the Contractor (including deposit refundable to him) under this contract may be appropriated by the BSNL and setoff the same against any claim of the BSNL or under any other contract made by the Contractor with the BSNL. In case of set off of security deposit against any claim of the BSNL or under any other contract made by the Contractor with the BSNL, the GST on such set off would be borne by the Contractor. GST would not be liable on security deposit. But, if the Contractor setoff the security deposit against any claim of BSNL for payment of a sum of money arising out of this contract or under any other contract made by the Contractor with the BSNL, then the GST would be levied.

14. In case of supply the Contractor shall furnish the name of his collaborator (if applicable), brand name, model number, type of products and HSN classification under GST.

15. GST Invoice:

- (i) All the details of Contractor (name, address GSTIN/ unregistered Contractor, place of supply, HASN/ SAC code etc.) and other mandatory details shall be mentioned on the invoice.
- (ii) Invoice/ Supplementary invoice/ Debit note/ Credit note/ Bill of supply/ Receipt voucher need to be issued in the GST compliant format and within the time prescribed under the GST law.
- (iii) In case of any deficient/ incomplete/ rejected supply, BSNL shall convey the same in a reasonable time period to enable the Contractor to issue credit note and take tax adjustment.
- (iv) It would be the responsibility of the Contractor to declare correct information on the invoice and GSTN viz. the amount, the place of supply, the rate of tax etc. In case, the eligibility of ITC is questioned or denied to BSNL on account of default by the Contractor, the same would be recovered by BSNL from the Contractor.
- (v) Registered location of both the parties' i.e BSNL and Contractor should be mentioned in the agreement with the GSTIN No. Further, Contractor should raise invoices at the registered premises of BSNL for

availing of credit and to ensure that the place of supply as per GST law is the same as the registered premise.

- (vi) BSNL could at any time instruct the Contractor to raise its invoices at a particular location of BSNL.
- (vii) It is the responsibility of the Contractor to ensure that the place of supply and GSTN of BSNL are in the same state. If for any reason they are not in the same state, the Contractor shall intimate to BSNL and give adequate time before raising of the invoice.
- (viii) E-way bill number, if applicable, should be mentioned on the invoices.

S.no.	Particulars for "Input invoice"
1.	Name and registered address of the Contractor
2.	GST registration no. of the Contractor
3.	Name of BSNL entity
4.	"Bill to" and "ship to" address of BSNL
5.	GST registration no. of the BSNL
6.	Date of invoice
7.	Invoice number
8.	Place of supply including state
9.	Type of tax i.e CGST SGST, UTGST, IGST
10.	Rate of tax
11.	Value of goods/service and type/ rate/ amount of tax should be separately mentioned
12.	Quantity of goods
13.	Total value of invoice
14.	Description of supply of goods/ service
15.	HSN code in case of goods and SAC code in case of service
16.	In case invoice has more than one tax rates, rate of tax and amount of tax for each supply should be mentioned separately.

S.no.	Particulars for "Receipt voucher"
1.	Name and registered address of the Contractor
2.	GST registration no. of the Contractor
3.	Name of BSNL entity
4.	"Bill to" and "ship to" address of BSNL
5.	GST registration no. of the BSNL
6.	Date of document issued
7.	Document number
8.	Place of supply including state
9.	Amount of advance taken
10.	Type of tax i.e CGST SGST, UTGST, IGST
11.	Rate of tax
12.	Quantity of goods
16.	In case invoice has more than one tax rates, rate of tax and amount of tax for each supply should be mentioned separately.
17.	Invoice issued at a later stage against receipt voucher to mention this document number. Refund voucher to be issued against the advance received if no supply is made and no invoice is raised.

16. Contractor shall be responsible for timely issuance and delivery of Invoice/ Debit note/ Credit note 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 Contractor to ensure that the outward supply return (GSTR-1) would be filed correctly. If not cost would be borne by the Contractor.

- (b) Reporting of correct outward supply by the Contractor in the outward return (GSTR-1) is the responsibility of the Contractor. In case of mismatch because of the Contractor's fault, prompt amendments must be made by the Contractor else Contractor would be required to indemnify BSNL of the loss of credit due to mismatch. The compliances to be adhered to by the Contractor includes (but is not limited to) the following:
- (i) Uploading appropriate invoice details on GSTN within the stipulated time.
 - (ii) Issuing GST compliant invoice/ Credit note/ Debit note. PO issued by the BSNL should be referred by the Contractor for capturing information on the invoice.
 - (iii) Contractor is required to pay the entire self-assessed tax on time.
 - (iv) Where invoice is not uploaded or incorrectly uploaded on GSTN by the Contractor, 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 the Contractor. Such changes with respect to the mismatch are required to be accepted by the Contractor within the time limit prescribed under the GST law. It should be noted that in case Contractor does not accept such changes within the time limit prescribed under the GST law, the loss of ITC, if any, would be recovered from the Contractor. In case of mismatch due to the Contractor's fault, prompt amendments must be made by the Contractor else Contractor would be required to indemnify BSNL of the loss of ITC due to mismatch.
 - (v) Contractor to issue all necessary documentation and perform all necessary compliances for BSNL to be eligible to claim ITC of GST tax to them. In case BSNL is unable to claim the ITC the amount with respect to GST charged by the Contractor would be recovered from the Contractor.
 - (vi) A self-declaration that the bidder is not black listed by the GST authorities shall be provided. In case Contractor gets black listed during the tenure of BSNL contract, then Contractor must indemnify BSNL to ensure that no loss of ITC is borne by BSNL due to default of the Contractor.

17. Where the location agreed are in more than one state, then separate invoice state wise, to claim ITC in a particular state, shall have to be submitted. It shall be the responsibility of the Contractor to mention state of supply of goods/ services in the invoice issued to BSNL.

18. GST on account of liquidated damages would be borne by the Contractor.

19. GST is payable on the tender cost. In this case BSNL would issue tax invoice to the bidders. The details of such tax invoice would be uploaded on the GSTN portal in the following manner:

- (i) BSNL shall furnish its outward supply details which includes revenue on account of tender cost in form GSTR-1 by the 10th of every month.
- (ii) Such details shall be communicated to the bidders through GSTR-2A (Part A).

Post matching of the outward details posted by BSNL on GSTN with the input details posted by the bidder, GSTN would calculate the total amount of tax payable by BSNL and bidder would be eligible to claim credit of GST paid on the tender cost

APPENDIX-XV

Notice for appointment of Arbitrator

(Refer Clause 25)

To,

The Chief Engineer

BSNL Civil Zone

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Dear Sir,

In terms of clause 25 of the agreement, particulars of which are given below, I/we hereby give notice to you to appoint an arbitrator for settlement of disputes mentioned below:

- 1. Name of applicant
- 2. Whether applicant is Individual/Prop. Firm/Partnership Firm/Ltd. Co.
- 3. Full address of the applicant
- 4. Name of the work and contract number in which arbitration sought
- 5. Name of the Division which entered into contract
- 6. Contract amount in the work
- 7. Date of contract
- 8. Date of contract Date of initiation of work
- 9. Stipulated date of completion of work
- 10. Actual date of completion of work (if completed)
- 11. Total number of claims made
- 12. Total amount claimed
- 13. Date of intimation of final bill (if work is completed)
- 14. Date of payment of final bill (if work is completed)
- 15. Amount of final bill (if work is completed)
- 16. Date of request made to SE for decision
- 17. Date of receipt of SE's decision
- 18. Date of appeal to you
- 19. Date of receipt of your decision.

Specimen signatures of the applicant

(Only the person/authority who signed the contract should sign)

I/We certify that the information given above is true to the best of my/our knowledge. I/We enclose following documents.

- 1. Statement of claims with amount of claims.
- 2.
- 3.
- 4.

Yours faithfully,

Copy in duplicate to:

(Signatures)

- 1. The Executive Engineer,

.....Division.

SCHEDULE A

SCHEDULE OF QUANTITIES	
Name of Work: Construction of foundation & Erection of 15.00 metre RTT with available material at NBSNL site at Ganeshnagar in Osmanabad district,Solapur BA.	
General: The quoted rates for various items in the tender shall be inclusive of the cost involved for compliance of all the conditions and specifications mentioned as “Additional Specifications” attached as Schedule – D (Part A), “Special conditions for this work” attached as Schedule – D (Part B),“Additional specifications” attached as Schedule- D (Part C), “List of Approved Makes/Brands” attached as Schedule-D (Part D) and “Additional &Particular Specifications” attached as Schedule-E (Part E) and special conditions for complying with the GST law which has come into force with effect from 01/07/2017”.	
General: The quoted rates shall be inclusive of all taxes/ levies/ cess etc. except GST.GST at the applicable rates shall be paid as per the relevant law and rules framed there under by the GST authorities. The GST shall be payable only to those Contractors who submit the details of GST registration to BSNL. Any further amendment notified by GOI in GST rules during the currency of the agreement shall also be applicable without any separate notice. The quoted rates shall also discount the input tax credit to be received by the Contractor on purchase of basic and other materials that are used subsequently in the work, to stay competitive.	
Estimated cost put to Tender:	Rs 1,65,270/- (Rs. One Lakh Sixty Five Thousand Two Hundred Seventy only)
Earnest Money deposit: -	Rs 3,310/- (Rupees Three Thousand Three Hundred Ten Only)
Time period of completion: -	1(One) month

SCHEDULE OF QUANTITIES

Name of work :

Construction of foundation & Erection of 15.00 metre RTT with available material at NBSNL site at Ganeshnagar in Osmanabad district, Solapur BA.

SN	Description of item	Qty	Unit	Rate	Amount
1	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : a) 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	0.45	Cum		
2	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal sized derived from natural sources).	4.00	Cum		
3	Centering and shuttering including strutting, propping etc. and removal of form for : a) Lintels, beams, plinth beams, girders, bressumers and cantilevers	30.00	Sqm		
	b) Columns, Pillars, Piers, Abutments, Posts and Struts.	3.50	Sqm		

4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.	400.00	Kg		
	a)Thermo-Mechanically Treated bars of grade Fe-500D or more.				
5	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	40.00	Sqm		
6	Structural steel work in single section, fixed with or without connecting plate,including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	20.00	Kg		
7	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in-charge.	0.50	Cum		
8	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer in-charge.	0.35	Sqm		

9	Hoisting, fixing & erection of roof top steel tower of 15.00 m height & weighting upto 1.50 MT at the terrace of the building (height up to 15 metre)with the available material , galvanised nuts, bolts, spring washers etc including working platform, runway, all components which include antenna fixtures, carrier and fastenings, gantry, cable feeder rack, resting and working platforms with hand rails, wave guide rack, wave guide rack support, ladders etc.,with safety precautions while erecting the tower etc. complete as per direction of Engineer in charge. (Rates includes cost of all operation including hoisting , hire & labour charges of tools, plants, machineries , insurance premium of labours etc. and nothing extra shall be paid on any account.)	1.00	Job		
10	Supplying of Anchor bolts of required length and diametre at site manufactured from Mild Steel bar of in single piece confirming to IS 2062-1999, threaded at top 150mm length and full welding MS Plate 80mm x 80mm x 8mm thick at bottom of anchor bolt including suitable hexagonal nuts,check nuts and Mild steel spring washers etc all complete as per direction of Engineer-in-charge. (Each Anchor bolts fixed in position, shall be measured separately for payment.	30.00	Kg		

11	Placing and fixing anchor bolts of 15.00 m tower foundation with base plates in R.C.C. Columns and embedding the same with cement concrete including adjusting the centre to centre distance between bolts, base plates to the required accuracy as directed by the Engineer-in-charge and as per relevant drawings. Note:- Grease should be applied to the exposed portion of nuts and bolts and the exposed portion should be covered with transparent plastic bags by the agency without extra payment on this account.	1.00	Job		
12	Transportation of tower material upto 15 m Mtr. high Roof top tower (weight up to 1500 kg) from the BSNL store at Osmanabad to terrace level of proposed building (height up to 15 metre) including loading , unloading & lifting to terrace including all the required tools, labours and taking necessary safety measures for material and workers etc complete as directed by Engineer in charge.(App.distance up to 20km)	1.00	Job		
13	Supplying at site hot dipped Galvanised (Galvanising shall not be less than 85 micron) nuts and bolts conforming to IS: 4736, of required size and of grade 5.6 and as per IS 12427 including spring & plain washers of required thickness all complete as per direction of the Engineer In Charge. (Note: This item will be executed only If available Nut Bolts are not in good condition or shortage in quantity)	25.00	Kg		

14	Supplying RCC base design for 15 m roof top tower on the existing building at Ganeshnagar,Osmanabad from a reputed structural /engineering designer as approved by Engineer-in-charge.The structural designer also have to supply structural stability certificate for the 15 m roof top tower by inspection of existing building structure as on date. Agency has to supply the base design & structural stability certificate in triplicate.	1.00	Job		
				TOTAL	

Total in figures (Rupees

Executive Engineer (Civil)

Contractor