

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....



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

ELECTRICAL WING

**BSNL ELECTRICAL DIVISION
WARANGAL.**

T E N D E R D O C U M E N T

FOR THE WORK OF

Name of the Work : - Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)

**NAME OF THE TENDERER.....
WITH ADDRESS :**

.....

**Sd/-
Executive Engineer (E)
BSNL Electrical Division
Warangal - 506001.**

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

NAME OF TENDERER:

INDEX

SI No	Details	Page No.
1.	Tender Document	1 to 1
2	Index	2 to 2
3	Notice Inviting Tender	3 to 8
4	Declaration	9 to 9
5	Eligibility Checklist for bidders	10 to 11
6	Standard Tender Form BSNL EW-8	12 to 13
7	General Conditions	14 to 17
8	Technical Specifications for EI & Fans	18 to 20
9	Computerized Measurement book	21 to 24
10	Proforma of Schedules	25 to 28
11	Schedule of work	28 to 31
12	Important Note	32 to 32
13	List of approved makes-BSNL electrical wing	33 to 33
14	Model Form of Bank Guarantee (Annexure -I)	34 to 34
15	Performance Security Guarantee Bond (Annexure -II)	34 to 36
16	No Near Relative working Certificate (Annexure -III)	36to 36
17	Undertaking regarding EPF Provisions (Annexure -IV)	37 to 37
18	Undertaking regarding ESI Provisions (Annexure -V)	38 to 38
19	Undertaking to abide by EW 6 & EW 8 (Annexure -VI)	39 to 39
20	Compliance Sheet (Annexure -VII)	40 to 40
21	ANNEXURES	41 to 41

This downloaded tender document contains 39_pages only

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Office of the Executive Engineer (E),
BSNL Electrical Division,
IIInd floor, KTB
Hanmakonda, Warangal- 506001,
Ph: 0870-2454424
Email : eeewglbsnl@gmail.com



भारत संचार निगम लिमिटेड
(भारत सरकार का उपक्रम)
BHARAT SANCHAR NIGAM LIMITED
(A Govt. of India Enterprise)

No: NIT- 36/EE/BSNLED/WGL/2023-24/157

Dated : 07.11.2023

NOTICE INVITING SHORT TENDER : 36/EE/BSNLED/WGL/2023-24

The Executive Engineer (E), BSNL Electrical Division, Warangal invites sealed item rate tenders on behalf of Bharat Sanchar Nigam Limited for the following work from the contractors satisfying the below mentioned eligibility conditions.

NIT. No	Name of Work	Estimated Cost -Rs.	EMD Rs.	Tender Cost Rs.	Time for Completion Of Work.
36	<i>Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)</i>	1,99,910/-	3,998/-	590/-(Non refundable)	1 Months

A. ELIGIBILITY CRITERIA:-

The Contractors satisfying the following conditions:

- 1) Average annual turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost put to tender.

AND

- 2) A) BSNL enlisted contractors in Electrical category of respective class as per their tendering limits

OR

- B) The manufacturer/authorized dealer /OEM of any of the makes of major equipment included in the NIT. The letter of authorization from manufacturer in original/ photocopy attested by BSNL Executive will be submitted.

OR

- c) Experience of having successfully completed similar works in BSNL during last 7 years ending last day of month previous to the one in which applications are invited, should be either of the following:

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

OR

- ii)Two similar successfully completed works costing not less than the amount equal to 60% of the estimated cost put to tender.

OR

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

IMPORTANT NOTES:

1. Self-attested documentary proof of satisfying the eligibility conditions as per "A" above shall be submitted.
2. The contractor should submit and confirm self-attested Chartered Accountant certificate in respect of turnover and other registration certificate ie., Enlistment in BSNL etc., as applicable.
3. The contractor shall submit and confirm his permanent account number (PAN) issued by income Tax Department.
4. The Tenderer should submit the valid GST registration certificate as per GST law (SGST/ CGST/ IGST as applicable).
5. EPF Registration Certificate and ESI Registration certificate.
6. The intending tenderer shall furnish the cost of Tender document in the form of Demand draft/Pay Order of a Scheduled Bank or Nationalized Bank/ State Bank guaranteed by Reserve Bank of India. The DD/PO for **Rs. 590/-** (Inclusive of GST), which is non-refundable, shall be drawn in favour of " the **Accounts officer (cash), BSNL, Warangal** "
7. The tenderer shall submit the tenders in two sealed covers marked as cover 1st and 2nd. The first cover should contain earnest money deposited in the shape of Demand draft/ pay order of a Scheduled Bank or Nationalized Bank / State Bank guaranteed by Reserve Bank of India drawn in favour of the **Accounts officer (cash), BSNL, Nizamabad** " and the 2nd cover should contain the tender document. In case the first cover is not annexed or earnest money is not in proper form, the 2nd cover containing tenders will not be opened at all.
8. The tender will be received **up to 3.00 PM on Dt: 14-11-2023** and opened at 3.30 PM on the same day in presence of AO, SDE [E-P] and contractors present. In case holiday is declared on the opening day, the tenders will be opened on the next working day.
9. The tender documents consisting of the detailed plans, complete specifications, the schedule of quantities of the various classes of works to be done and the set of conditions of contract to be complied with and other necessary documents can be seen and downloaded from website www.telangana.bsnl.co.in.
10. The firm who quotes on the tender downloaded from the website shall be strictly follow the following procedure.
 - a) The tenderer shall submit the tenders in two sealed covers marked as cover 1st and 2nd.
 - b) The first cover should contain the following :

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

11. Earnest Money Deposit (EMD) in the shape of Demand draft/ pay order of a Scheduled Bank or Nationalized Bank / State Bank guaranteed by Reserve Bank of India or Bank Guarantee bond drawn in favour of the **Accounts officer (cash), BSNL, Nizamabad** "
 - i). Cost of the tender documents in the shape of DD.
 - ii) The Credentials of tenderer self-attested and certified by any BSNL Executive. If not certified by BSNL Executive, then original documents shall be produced at the time of opening.
 - iii) Second envelope shall contain duly filled tender document.
 - iv) The Name of work, Name of tenderer and last date of receipt of tender should be mentioned on each envelope. In the absence of which the tender shall not be considered and unopened tender returned forthwith.
12. The first envelope containing tender fee, attested documents proving fulfilment of eligibility criteria and EMD in proper form shall be opened first.
13. The second envelope shall not be opened in case:
 - a) Tender fee is not submitted in proper form
 - b) EMD is not in proper form
 - c) Firm fails to fulfill eligibility criteria on the basis of document submitted in the first envelope.
14. If any difference/ discrepancies found between downloaded tender form, any hard copy issued from Division office, the contents in Draft NIT issued from EE (E)'s office will be final & binding.
15. Tenders received by post or courier shall not be accepted.
16. Earnest Money amounting to **Rs.3,998/-** in the form of demand draft/ FDR /BG/ CDR of a nationalized/scheduled bank guaranteed by the Reserve Bank of India, drawn in favour of **Accounts officer (cash), BSNL,Nizamabad** must accompany each tender. The Validity period of EMD is 120 days, from the date of opening of tender.
17. The EMD of all the unsuccessful tenderers shall be released on issue of award letter to the successful tenderer. This shall be done within one week of award letter.
18. Exemption from payment of earnest money and security deposit by any other unit/ department shall not hold good for BSNL.
19. General conditions of contract for works in BHARAT SANCHAR NIGAM LIMITED (BSNL EW-8) are available on BSNL website <http://www.ap.bsnl.co.in> as well as in the Division Office.
20. Before tendering, the contractor shall inspect the site and fully acquaint himself about the condition with regard to accessibility of site and site nature and the extend of grounds, working condition, including stocking of materials, installation of T&P etc., and conditions affecting accommodation and movement of labour etc., required for the

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satisfactory execution of the contract. No claim whatsoever on such account shall be entertained by the BSNL in any circumstances.

21. **Performance Guarantee (PG):** The contractor is required to furnish performance guarantee for an amount equal to 5% of the contract value in the form of bank guarantee/ CDR/FDR/DD (of a nationalized/ Scheduled Bank in a standard format) **within two weeks** from the date of issue of award letter. This period can be further extended by the Engineer-in-charge up to a maximum period of 2 weeks on written request of Contractor. The validity period of the performance security in the form of performance bank guarantee shall be one year from the date of actual completion of work.
22. **Security Deposit:** In addition to the performance guarantee stated above, a sum @ 10% of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum be deducted with the sum already deposited as earnest money,
23. The acceptance of tender will rest with the **EE(E) BSNL** Warangal who does not bind himself to accept the lowest tender or any other tender & reserves to himself the Authority to reject lowest or all the tenders received without assigning any reason. All tenders in which any of the prescribed conditions are not fulfilled or incomplete in any respect are liable to be rejected. Tenders with any condition including that of conditional rebates shall be rejected forthwith summarily.
24. Canvassing in connection with tender is strictly prohibited & the tenders submitted by the contractors who resort to canvassing will be liable for rejection.
25. The BSNL reserves itself the right of accepting the whole or any part of the tender & the tenderer shall be bound to perform the same at the rates quoted.
26. The tenderer should give a certificate that none of his/her relative is employed in BSNL units. In case of proprietorship firm, certificate will be given by the proprietor & for partnership firm certificate will be given by all the Directors of the company.
27. Near relatives of all BSNL employees either directly recruited or on deputation are prohibited from participation in tenders and execution of works in the different units of BSNL. The near relatives for this purpose are defined as:
 - a. Members of a Hindu Undivided family.
 - b. They are husband and wife.
 - c. The one is related to the other in the manner as father, mother, son(s) & son' 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).
28. The company or firm or any other person is not permitted to tender for works in BSNL Unit in which his near relative (s) is (are) posted. The unit is defined as SSA/ Circle/ Chief Engineer/ Chief Archt./ Corporate office for non-executive Contractor

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employees and all SSA in a circle including circle office/Chief Eng./ Chief Archt./ Corporate office for executive employees (including those called as Gazetted officers at present). The tenderer should give a certificate that none of his/her such near relative is working in the units as defined above where he is going to apply for tender/ work, for proprietorship, partnership firms & limited company certificate shall be given by the authorized signatory of the firm. Any breach of these conditions by the company or firm or any other person, the tender/work will be cancelled and earnest money/performance guarantee 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. The company or firm or the person will also be debarred for further participation in the concerned unit

29. No employee in BSNL/ Govt. of India is allowed to work as a contractor for a period of two years of his retirement from service without the prior permission. The contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission as aforesaid before submission of tender and engagement in the contractor's service.
30. The tender for the works shall not be witnessed by the contractor who himself/themselves has/ have tendered or who may and has/have tender for the same work. Failure to observe this condition would render tenders of the contractors tendering as witnessing the tender is/are liable for summarily rejection.
31. It will be obligatory on the part of the tenderer to sign each page of the Schedule of work and the tender documents for all the component parts and after the work is awarded he will have to enter into a separate agreement with the officer concerned.
32. Any tender not submitted in proper manner or not as per the directions, BSNL will be at liberty to take such action as it may deem fit without any reference to the tenderer.
33. The tenders for the work shall remain open for acceptance for a period of 90 days from the date of opening of the tenders. If any tenderer withdraws his tender before the said period or makes any modification in the terms and conditions of the tender which is not acceptable to the BSNL shall, without prejudice to any other right of remedy be at liberty to forfeit 50% (fifty percent only) of the said earnest money absolutely.
34. Extension of validity: In case, where the letter of award of work cannot be placed within the validity period of the tender, the BSNL can request all tenderers to extend the validity of their respective tenders and the Earnest Money deposit by a reasonable period. In such cases, extension of validity of Earnest Money deposit by 30 days beyond the extended validity date of tender should also be asked for. While BSNL can make the request for extension, the tenderer is free to either extend the validity or refuse the request to extend the validity.
35. The contractor should read the tender documents carefully before submitting the tender. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
36. Conditional tenders or tender with conditional rebates shall be summarily rejected.

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

37. Agreement shall be drawn with the successful Tenderer on prescribed Form No. **BSNL EW-6/8**, which is available on BSNL website <http://www.telangana.bsnl.co.in>. Tenderer shall quote his rates as per various terms and conditions of the said form.
38. In case the eligibility credentials are found to be fake or falsified 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.
39. This Notice Inviting Tender shall form part of the Contract document. The successful tenderer/Contractor on acceptance of his tender by the accepting authority shall within 15 days from the stipulated date of start of the work, formally sign the contract 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 EW-8 form
40. EPF PROVISIONS: The agency has to comply with the provision of EPF and miscellaneous provisions Act - 1952 and employees Provident Fund scheme-1952 as amended up to date in respect of labours/employees engaged by them for this work. Any consequences arising due to non-complying of provisions as specified above shall be of the sole responsibility of the firm only. The agency shall give an undertaking to this effect as per the prescribed proforma (Annexure IV).
41. The site for the work shall be made available in parts.
42. If any terms and conditions mentioned in this NIT document are in contravention to BSNL EW6/EW 8 General Conditions of Contract, the terms and conditions mentioned in this document shall prevail.

Executive Engineer (E)
For and on behalf of BSNL

Copy to:

- 1) The CE(E) (E), BSNL Electrical Zone, Hyderabad - for information pl.
- 2) **The PGM TD, WRL/NZB - for information pl.**
- 3) The SE (E), BSNL Electrical Circle, Hyderabad - for info pl.
- 4) The Executive Engineer (E), BSNL Electrical Division-I/II
Hyd/VJA/VSKP/TPT/ATP-for info pl.
- 5) The SDE(E), BSNL Electrical Sub Division, WGL/KAA/ADB for information.
- 6) The AO(Cash), BSNL ED, WGL - for information.
- 7) The Eligible Contractor
- 8) Notice board/File copy/spare
copy. Executive Engineer (E)

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

D E C L A R A T I O N

(TO BE GIVEN BY THE TENDERERS WHO HAVE DOWNLOADED THE TENDER DOCUMENT FROM THE WEB)

It is to certify that

- 1) I / We have submitted the tenders in the proforma as downloaded directly from the website & there is no change in formatting, number of pages etc.
- 2) I / We have submitted tender documents which are same / identical as available in the website.
- 3) I / We have not made any modification / corrections / additions etc in the tender documents downloaded from web by me / us.
- 4) I / We have checked that no page is missing and all pages as per the index are available & that all pages of tender document submitted by us are clear & legible.
- 5) I / We have signed (with stamp) all the pages of the tender document before submitting the same.
- 6) I / We have sealed the tender documents properly before submitting the same.
- 7) I / We have submitted the cost of tender along with EMD.
- 8) In case at any stage later, it is found there is difference in our downloaded tender documents from the original, BSNL shall have the absolute right to take any action as deemed fit without any prior intimation to me / us.
- 9) In case at any stage later, it is found there is difference in our downloaded tender documents from the original, the tender / work will be cancelled and Earnest Money/ Security Deposit will be forfeited at any stage whenever it is so noticed. The department will not pay any damages to me / us on this account.
- 10) In case at any stage later, it is found there is difference in our downloaded tender documents from the original, I / We may also be debarred for further participation in the tender in the concerned BSNL Electrical Zone & would also render me / us liable to be removed from the approved list of contractors of the Department.

Dated

(CONTRACTOR)

(SIGN WITH SEAL)

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

ELIGIBILITY CHECK LIST FOR BIDDERS

Name of Work: *Name of the Work : - Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)*

NIT No. **36/EE/BSNLED/WGL/2022-23; dated : 07/11/2023**

Sl. No	DESCRIPTION	Submitted/Uploaded/Yes/No
1]	The Firms who fulfil the following requirements shall be eligible to bid and proof shall be submitted. Please refer EW 6.	
1.1	Average annual turnover during the last 3 years, ending 31 st March of the previous financial year, should be at least 30% of the estimated cost put to tender.	
	AND	
1.2	The manufacturer/authorized dealer /OEM of any of the makes of major equipment included in the NIT. The letter of authorization from manufacturer in original/ photocopy attested by BSNL Executive will be submitted	
	OR	
	Experience of having successfully completed similar works in BSNL during last 7 years ending last day of month previous to the one in which applications are invited , should be either of the following :	
	Three similar successfully completed works costing not less than the amount equal to 40% of the estimated cost put to tender	
	OR	
	Two similar successfully completed works costing not less than the amount equal to 60% of the estimated cost put to tender	
	OR	
	One similar successfully completed work costing not less than the amount equal to 80% of the estimated cost put to tender	
	OR	
	BSNL enlisted contractors in Electrical category of respective class as per their tendering limits	
Note: - Copy of Credentials as applicable for proof of eligibility prescribed shall be produced by the firm.		
2.	The intending bidder has to fill all the details such as Banker's name, Demand Draft/Fixed Deposit Receipt/Pay Order/ Banker's Cheque/Bank Guarantee number, amount and date	

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

	a) Cost of Bid Document: Demand draft amounting to Rs. 590/- (inclusive of GST) drawn in favour of " A.O (Cash), BSNL Nizamabad , (Demand Draft only)	
	c) EMD -amounting Rs. 3,998/- in the prescribed form. Earnest Money should be in the form of demand draft/FDR/ BG (As per format at Annexure-I) / CDR of a nationalized/scheduled bank guaranteed by the Reserve Bank of India, drawn in favour of " A.O (Cash), BSNL, Nizamabad " must accompany each tender. The Validity period of EMD is 120 days, from the date of opening of tender.	
3.	Self attested copy of PAN card.	
4	Self attested copy of CA certificate for turnover (as applicable).	
5.	Self attested copy of valid GST registration Certificate	
6.	Self attested copy of EPF registration certificate	
7.	Self attested copy of ESI registration certificate	
8.	The tenderer should give a certificate that none of his/her relative is employed in BSNL units. In case of proprietorship firm, limited company, partnership firm certificate will be given by authorised signatory of the company(Annexure III)	
9.	Duly filled and signed undertaking regarding EPF Provisions (Annexure IV)	
10.	Duly filled and signed undertaking regarding ESI Provisions (Annexure V)	
11.	Duly filled and signed Undertaking and to abide by EW6 and EW 8 (Annexure VI).	
12.	Compliance Statement (Annexure VII)	

Notes for Submission of Documents:

- (a) The bidder shall have to down load the Tender Documents and shall be submitted before the prescribed date and time. (Ref. Notice Inviting Tenders)
- (b) The bidder shall submit the Original documents of DD towards cost of Bid documents and EMD in the prescribed form, and Eligibility documents (as per para 19 of NIT) **and tender submission format** in a sealed envelope mentioning Name of work, date & time of opening of bids along with the name and address of the bidder in the Tender box in the office of **Executive Engineer (Electrical), BSNL Electrical Division, Warangal** before the prescribed date and time (Ref. Notice Inviting Tenders)
- (c) Bid documents submitted by intending bidders shall be opened only of those bidders, whose Cost of Bid Document, Earnest Money Deposit, and Eligibility documents (as per para 17 of NIT) placed in the envelope are found in order.

Seal of the firm
Contractor

Signature of the Bidder
Executive Engineer (E)

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

BSNL EW-8

BHARAT SANCHAR NIGAM LIMITED
(A Government of India Enterprise)

CIRCLE - Telangana Circle

DIVISION - Warangal

BRANCH : Electrical Wing

SUB DIVISION : Karimnagar

Tender for the work of **Name of the Work : -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....**

(i) Issued to (contractor) _____
(ii) Tender Cost _____ (iii) Receipt No. _____
(iii) Date of application _____ (iv) Date of issue _____
(v) Signature of officer issuing the documents _____
(vi) _____
Designation _____

(B) (i) To be submitted by (time) **15.00** hours on (date) **14-11-2023** in the **Office of the Executive Engineer (E), BSNL Electrical Division, Warangal.**

(ii) To be opened in presence of tenderers who may be present at **15.30** hours on **14-11-2023** in the **Office of the Executive Engineer (E), BSNL Electrical Division, Warangal.**

TENDER

1. I/we have read and examined the notice inviting tender, schedule, specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, special conditions, Schedule of Rates and other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.
2. I/We hereby tender for the execution of the work specified for BSNL within the time specified, schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions and other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.
3. I/We agree to keep the tender open for ninety (90) days from the due date of submission thereof and not to make any modifications in its terms and conditions.
4. A sum of **Rs.3,998** is hereby forwarded in the form of Deposit at call receipt/FDR//Bank guarantee of a Nationalized/Scheduled Bank as earnest money. If I/We, fail to commence the work specified I/We agree that the said BSNL shall without prejudice to any other right or remedy, be at liberty to forfeit the said

Contractor

Page 12 of 41

Executive Engineer (E)

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

earnest money absolutely and the same may at the option of the competent authority on behalf of BSNL be recovered without prejudice to any other 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.

5. Should this tender be accepted. I/We agree to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered up to maximum of percentage mentioned in clause 12.3 of the tender form and those in excess of that limit at rates to be determined in accordance with provisions contained in clause 12.2.
6. I/we agree to furnish to BSNL Deposit at call receipt/FDR/Bank guarantee of a Nationalised/ Scheduled Bank for an amount equal to 5% of the contract value in a standard format within two weeks from the date of issue of award letter. I/we agree to keep the performance bank guarantee valid for one year from the date of actual completion of work.
7. 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 to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety or interest of BSNL.

Signature of Witness

(Required in the case of contractor's
Thumb impression is given by the
Contractor in place of signature)
(Name & Postal address)

(Signature of contractor)
Seal of contractor

Occupation of Witness

Date:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of BSNL for a sum of `
(Rupees.....).

The letters referred to below shall form part of this contract Agreement

- a)
- b)

Dated

For & on behalf of BSNL

Signature_____

Designation

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

GENERAL CONDITIONS

Please note that the offers, which do not comply the following, will not be considered and will be summarily rejected. These instructions supersede the **BSNL EW 8** clauses in case of any Disparity.

- 1. Tenders with any condition including that of conditional rebates shall be rejected forthwith summarily.**
2. Insurance, loading, unloading, transportation etc., should be included on works contact basis.
3. No Octroi exemption certificate shall be issued by the department nor will the Octroi duty paid by the contractor be reimbursed. Hence Octroi charges shall be included in the offer.
4. The price shall be firm and fixed during the currency of the contract. No cost escalation is permitted. Clause10CC is not applicable.
5. The Extension of time for completion of the works is governed by clause 5 of the tender documents.
6. No advance payments can be made. The payment is governed by the normal department practice. Stipulations like levy of interest if pay mention to make in specified time is not acceptable.
7. The firm should deposit EMD before submission of their offer. The EMD of other works refundable to them cannot be adjusted against this work. The firm's offer shall be liable for rejection without EMD for this particular work.

8) **TAXES AND DUTIES**

The firm shall quote rates for all the items inclusive of all taxes and duties, inclusive of Octroi, entry tax, work contract tax, Service tax/ GST. No concession form will be issued by the Department. **However the agency shall clearly indicate the GST/ Service portion in case of composite works at the time of submission of tender itself for the purpose GST/ service tax calculation.**

Tendered rates shall be inclusive of all taxes and levies payable under the respective statutes. However pursuant to the constitution (Forty sixth amendment) Act, 1982, If any further tax or levies imposed by statute, after the date of receipt of tenders and the contractors there-upon necessarily and properly pays such taxes/levies the contractor shall be reimbursed the amount so paid, provided such payment, if any in the opinion of Superintending Engineer whose decision shall be final and binding is not attributable to delay in execution of work within the control of the contractor.

The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of Government and further shall furnish such other information/documents as the Engineer-in-Charge may require.

The contractor shall within a period of 30 days of imposition of any further tax or levy pursuant to the constitution (Forty sixth amendment) Act, 1982, give a written notice thereof to,

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

the Engineer-in-Charge that the same is given pursuant to this condition together with all necessary information relating thereto.

Note: No additional condition whatsoever will be accepted for turnover tax/ sale tax on works contract. In case of additional conditions for the payment of such claims by the contractor, the tender may be summarily rejected by the accepting authority.

9) **INCREASE /DECREASE OF TENDERED QUANTITY**

a) BSNL will have the right to increase or decrease up to 25% of the Contract value depending upon the requirement of goods and services specified in the schedule of items without any change in the unit price or other terms and conditions at the time of award of contract.

b) In exceptional situation where the requirement is of an emergent nature and it is necessary to ensure continued supplies from the existing vendors, the purchaser reserves the right to place repeat orders up to 50% of the quantity of goods and services contained in the running tender/contract within a period of 12 months from date of award of work at the same rate or a rate negotiated (downwardly) with the existing vendors considering the reasonability of rates based on prevailing market conditions and the impact of reduction in duties and taxes etc.

10) **CURTAILMENT OF QUANTITY:** -

BSNL reserves the right to enforce curtailment in the assigned quantum of work for any contractor on the grounds of defaults/delay in regard to execution of the individual work assigned.

11) **COMPLETION OF WORK:** -

11.1 The time period will be reckoned from the 10th day after the date on which the order of commence the work issued to the contractor. **The time allowed for completion of work is 01 Months** as per the directions of the Engineer-in-charge.

12) **EXTENSION OF TIME:** -

If the contractor shall desire an extension of time for completion of work on the grounds of his having been unavoidably hindered in its execution or on any other grounds, he shall apply in writing to the Engineer in charge within 30 days of the hindrance on the account on which he desires such extension as aforesaid, and the Engineer in charge shall if in his opinion reasonable grounds to be shown therefore, authorize such provisional extension of time, if any as in his opinion be necessary are proper.

13) **COMPENSATION FOR DELAY:**

If the contractor fails to maintain the required progress or complete the work and clear the site on or before the contract or extended date of completion, he has to pay the compensation for delay which is limited to 0.5% per week of the tendered value for the first 10 weeks and 0.7% per week for next 10 weeks and thereafter subject to a maximum of 12% of the tendered value for the location where the work is delayed and the firm is found responsible

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

for the same. The clause 2 of **BSNL EW - 8 forms** stands modified accordingly. Flow chart of the procurement process/ contract shall be supplied by the contractor and approved by Executive Engineer concerned.

14) Payment Terms:

Payment to the contractors during progress of work is regulated for all items as below

- a. **80% of the price shall be paid on the receipt of goods at site by the consignee (for major items only).**
- b. **The balance 10% payment shall be released after satisfactory instillation.**
- c. **The balance 10% payment shall be released after satisfactory commissioning, Testing and handing over of the work.**

No payment will be made for goods rejected at the site on testing. Payment, if made for such items shall be recovered from subsequent bills or other bills.

15) EPF PROVISIONS:-

The agency has to comply with the provisions of EPF and miscellaneous provisions Act-1952 and employees provident fund scheme-1952 as amended upto date in respect of labours / employees engaged by them for this work. Any consequence arising due to non- complying of provisions as specified above shall be the sole responsibility of the firm only.

15(a) Agency has to observe all the labour rules & regulation in force. Agency shall be fully responsible for any violation observed at any time.

16 Inspection of Site and Contract Documents

For the purpose of inspection of site and relevant documents, the contractor is required to contact E.E (Elect) concerned who shall give reasonable facilities for Inspection of the same. The contractor shall inspect and examine the site and its surroundings and shall satisfy himself before commencement of work as to the form and nature of the site, the quantities and nature of work, materials necessary for completion of the works, the means of access to the site, the accommodation he may require and in general shall himself obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect his work. No extra charges consequent on any misunderstanding or otherwise shall be allowed.

17 Variation in quantities in respect of unit rates items will be governed by unit rates in the Agreement. This applies to all variations ordered during the currency of the main contract regardless of the quantity of variation. For any item of work not covered by the schedule of work Clause12 of **BSNL EW -8** shall apply.

18. I.S. Standards:

The entire system shall conform to relevant Bureau of Indian Standards as amended up to date. Where IS standards are not available the British standard(s) shall be followed. In case of conflict, the requirements of these specifications shall be given over-riding priority. The electrical and earthing work shall be carried out as per CPWD specifications for electrical works (internal) and electrical works (external) as amended up to date.

19. Modifications/Alterations.

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

- 19.1 Modifications or alterations in the design/specifications of any equipment/material will not be permitted by the department as a matter of principle.
- 19.2 However, the department may relax the above stipulation in exceptional circumstance where:
- a) The same is necessitated due to non-availability of material/component of certain specifications or make. OR
 - b) Such alterations constitute an improvement in the opinion of the contractor.
- 19.3 Prior written approval of the department shall be obtained before execution of such alterations/modifications.

20. **Quality Assurance**

The EI works are to be executed in accordance to the CPWD specifications. The work is considered to be completed only after the successful completion of testing.

21. **Procedure for submission of bills:**

The agency shall clearly indicate the GST/ **service tax number** on the bill copy / invoice. The bill shall contain measurement (work done / supplies) portion and the GST/ service tax portion separately. Bills received without these particulars will not be considered.

22. **Termination of contract on death of contractor**

Without prejudice to any of the rights or remedies under this contract, if the contractor dies the Engineer in charge on behalf of the BSNL shall have the option of terminating the contract without compensation to the contractor.

23. **Indulging of contractor on criminal / anti-social activities and cases under investigation/ charge sheeted by CBI or any other Government agencies Etc**

If the CBI/ Independent External Monitor (IEM) / Income tax/Sales tax/Central Excise /Customs Departments recommends such a course – action will be taken as per the directions of CBI or concerned department.

TECHNICAL SPECIFICATIONS

1. The work shall be carried out as per current CPWD specifications for Electrical works as amended from time to time and Indian Electricity Rules as amended up to date.
2. The work shall be supervised by a qualified technical staff.
3. Layout of the work will be given by the Engineer in charge or his duty authorized representative at the site of work.
4. Following categories of wiring shall be done on separate conduits.
 1. Power plug
 2. Light and fan wiring
 3. Emergency light point wiring
 4. Telephone wiring
 5. AC unit wiring.

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

5. The No. of power plug points and emergency light point (fed from DC supply) shall not exceed 2 per circuit.
6. Earthing sets work shall be carried out in the presence of the Engineer-in-charge or his authorized representative.
7. Samples of all the materials, fittings accessories switch gears etc., shall be approved from the Engineer-in-charge before using the same on the work. Rejected material shall be removed immediately from the site of work.
8. The contractor will have to carry out the following test at his cost and intimate test results before final bills are paid. Nothing extra will be paid to him on this account.
 - 1) Earth test
 - 2) Polarity test
 - 3) Insulation test
 - 4) Earth continuity test of the surface recessed conduit pipes.
9. Any damages done to the building by the contractor during the executing of the work shall have to be made good at his cost and risk. If it is not done within a reasonable time determined by the Executive Engineer (E) then the same will be got done at his cost departmentally after giving notice to him.
10. The outlet boxes, IC boxes for switch gears and ends of conduit etc., for different categories of conduit runs catering for different types of electrical wiring as mentioned in clause above shall be painted inside/outside with different colours satisfying different categories mentioned so as to avoid mixing of various circuits and their wiring and nothing extra will be paid for this.
11. At the time of laying conduit pipes in the slab and in recess the contractor will keep wire of 15 SWG GI throughout the conduit pipe and will have to take special care so that the conduit does not pass through air conditioning ducts, grills columns, beams etc. If any such necessity is foreseen special written permission of Executive Engineer (Electrical) should be obtained before such work is carried out. In case of failure the contractor will not be paid on this account. The contractor should recess the conduit in the walls before they are plastered and co-ordination with the progress of building work. Any damages thus done will have to be made good at the cost of the contractor. The conduit pipes should be mechanically and electrically continuous.
12. The bakelite covers for the switches; plug sockets etc., shall not be removed or broken for taking connections which shall be done at their back by providing suitable wooden reaper in the IC boxes where found necessary. All wooden boxes for switches, plug, regulator etc., shall be provided with 1/8" thick bakelite sheet covers.
13. The runs of various circuits wiring at various places shall be kept minimum by taking the runs on walls where cross of columns is not necessary. This has to be decided before casting of slab so that unnecessary length of conduit is not laid there in.
14. All the IC distribution sub-main board and corresponding switch near shall be sign-written clearly indicating the No. of distribution boards, type of load it is serving and the number of circuits contained in the distribution box. Details of the routes led from a particular distribution box shall be placed in tabular form on the reverse of the cover of the distribution box.
15. Underground cables both of 11KV and 1.1 KV grade should be subjected to pressure of insulation tests before and after laying the same in the ducts. In case of unsatisfactory

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

tests, the cost of all repairs and replacement and all extra works of removal and relaying will have to be made good by the contractor at his own risk.

16. While making the end connections of wires, no strand shall be cut and the termination of wires shall be done with necessary lugs and ferrules without any extra payment.
17. The bus bars of the single-phase distribution box shall be of solid aluminium strip instead of sheet metal.
18. Lugs should be provided while terminating 8 SWG GI wire from earth continuity without any extra payment.
19. The termination of conduit etc., in the junction box to be provided above DBs should be done by making proper holes' knockouts instead of cutting the box.
20. The contractors will have to make arrangements to take the materials to site of work at his own cost and risk. Octroi, if paid by the contractor for the materials supplied by the Department can be claimed by his against the original vouchers.
21. If any conduits were laid before award of this work the recovery for the same will be made from the contractor at rates specified in the SR 94 (internal) plus abatement of tender.
22. The contractor shall submit the completion plan as required vide general specifications for electrical works. Part-I (internal) & part – II (external) as applicable within 30days the completion of the work. In case of contractor fails to submit the completion plan as aforesaid he shall be liable to pay sum equivalent to 2.5% of the value of the work subject to a ceiling of Rs. 2500/- as may be fixed by the S.E. (E).

Sd/-

Executive Engineer (E)

Split A/C Unit installation

- 1) The indoor unit (high wall mounting type) shall be fixed on the wall/suspended from ceiling as per site requirement with suitable fixing arrangement.
- 2) Installation of out-door unit shall be done at suitable location (window sajja/terrace etc) with M.S. angle frame of suitable size as directed by the E-in-C.
- 3) The M.S frame shall be suitably painted with primer and approved colour paint.
- 4) Necessary holes shall be made in the wall for crossing of refrigerant pipe line, and shall be re-plastered with suitable insulation packing etc.
- 5) All the condensate water drain line shall be laid with proper slope, so that the water flows out smoothly. The drain line shall be let out at the required location as desired by the E-in-charge, i/c proper fixing arrangements.
- 6) The copper refrigerant pipe lines shall be fixed neatly and properly i/c insulation materials, clamping arrangement etc.

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

- 7) Pressure testing of the refrigerant piping shall be done to the satisfaction of the E-in-Charge and necessary test certificates produced.

Sd/-

Executive Engineer (E)

COMPUTERISED MEASUREMENT BOOK

CLAUSE 6A

Engineer-in-Charge shall, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the contract.

All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works performed under the contract.

All such measurements and levels recorded by the contractor or his authorized representative from time to time, during the progress of the work, shall be got checked by the contractor from the Engineer-in-Charge or his authorized representative as per interval or program fixed in consultation with Engineer-in-Charge or his authorized representative. After the necessary corrections made by the Engineer-in-Charge, the measurement sheets shall be returned to the contractor for incorporating the corrections and for resubmission to the Engineer-in-Charge for the dated signatures by the Engineer-in-Charge and the contractor or their representatives in token of their acceptance.

Whenever bill is due for payment, the contractor would initially submit draft computerized measurement sheets and these measurements would be got checked/test checked from the Engineer-in-Charge and/or his authorized representative. The contractor will, thereafter, incorporate such changes as may be done during these checks/test checks in his draft computerized measurements, and submit to the department a computerized measurement book, duly bound, and with its pages machine numbered. The Engineer-in-Charge and/or his authorized representative would thereafter check this MB, and record the necessary certificates for their checks/test checks.

The final, fair, computerized measurement book given by the contractor, duly bound, with its pages machine numbered, should be 100% correct, and no cutting or over-writing in the measurements would thereafter be allowed. If at all any error is noticed, the contractor shall have to submit a fresh computerized MB with its pages duly machine numbered and bound, after getting the earlier MB cancelled by the department. Thereafter, the MB shall be taken in the Divisional Office records, and allotted a number as per the Register of Computerized MBs. This should be done before the corresponding bill is submitted to the Division Office for payment. The contractor shall submit two spare copies of such computerized MB's for the purpose of reference and record by the various officers of the department.

The contractor shall also submit to the department separately his computerized Abstract of Cost and the bill based on these measurements, duly bound, and its pages machine numbered along with two spare copies of the bill. Thereafter, this bill will be processed by the Division Office and allotted a number as per the computerized record in the same way as done for the measurement book meant for measurements.

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements/levels by the Engineer-in-Charge or his representative.

Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in-the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard, method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available then a mutually agreed method shall be followed.

The contractor shall give not less than seven days' notice to the Engineer-in-Charge or his authorized representative in charge of the work before covering up or otherwise placing beyond the reach of checking and/or test checking the measurement of any work in order that the "Same may be checked and/or test checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and/or test checking measurement and shall not cover up and place beyond reach of measurement any work without consent, in writing of the Engineer-in-Charge or his authorized representative in charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of checking and/or test checking measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Engineer-in-Charge or his authorized representative may cause either themselves or through another officer of the department to check the measurements recorded by contractor and all provisions stipulated herein above shall inapplicable to such checking of measurements or levels.

It is also a term of this contract that checking and/or test checking the measurements of any item of work in the measurement book and/or its payment in the interim, on account of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.

1. As per the CPWD Works Manual 2014

7.1 Computerised Measurement Books (CMB's) and Bills to be submitted by the contractor

7.2 Application and format of the Computerized M.B.

(1) Irrespective of value of the work the conventional Measurement Books shall be replaced by a bound volume of computerized measurements to be furnished by the contractor, duly machine numbered for the pages, and with an MB number given by the Division Office. The pages of these Measurement Books shall be of A-4 size. All these Measurement Books belonging to a Division shall be serially numbered and a record of these Computerized Measurement Books shall be maintained in a separate

Register in Form CPWA 92.

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

(2) The same format as in existing Measurement Books shall be used for the Computerized Measurement Books. The measurements shall be carried forward from the previous recorded measurements as per the existing procedure.

7.3 Mode of measurements

(1) The measurements shall be recorded and entered in computerized format in the first instance by the contractor, and a hard copy shall be submitted to the Department. All entries shall be made exactly as per the existing procedure.

(2) These measurements shall then be 100% checked by the Junior Telecom Officer (E)If Junior Telecom Officer (E) is not available, the Sub-Divisional Engineer(E) shall perform 100% check of the measurements. The contractor shall incorporate all such changes or corrections, as may be done during these checks, to his draft computerized measurements, and submit to the department the corrected computerized measurements in the form of a book, duly hard bound in red colour on the lines of the conventional Measurement Books now in use, and with its page's machine numbered.

(3) The Sub-Divisional Engineer(E)and the Executive Engineer(E) shall test check these computerized measurements as per the existing instructions. This book shall be treated as a Computerized Measurement Book.

(4) The Junior Telecom Officer (E), Sub-Divisional Engineer(E)and the Executive Engineer(E)shall record the necessary certificates for their checks and test checks as per the existing procedure in this Computerized Measurement Book.

(5) The Computerized Measurement Book shall be allotted a serial number as per the Register of Computerized Measurement Books.

7.4. Cutting or over-writing in the computerized M.B. not allowed

(1) The Computerized Measurement Book given by the contractor, duly bound, with its page's machine numbered, shall have no cutting or over-writing.

(2) It is the responsibility of the Junior Telecom Officer (E) or the Sub-Divisional Engineer(E)as the case may be to ensure that the checks and test checks done by them in the initial draft measurements are correctly incorporated in the Computerized Measurement Book before they record their certificates.

(3) In case of any error, the Computerized Measurement Book shall be cancelled, and the contractor shall re-submit a fresh Computerized Measurement Book. This should be done before the corresponding computerized bill is submitted to the Division for payment.

(4) The contractor shall submit as many copies of Computerized Measurement Books as may be required, and as are specified in the NIT/contract, for the purpose of reference and record in the various offices of the department.

7.5. Computerized Bill to be submitted by the contractor

(1) The contractor shall submit his running and final bills in a computerized form in the same format as the existing conventional bills, with all the page's machine numbered, and hard bound, and with all the entries made as per the existing procedure.

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

(2) The contractor shall submit as many copies of the computerized bills as may be required for the purpose of reference and record in the various offices of the department.

(3) The bill shall be carried forward from the previous running account bill as per the existing procedure.

(4) These computerized bills shall be processed by the various offices for payment, as per the existing procedure.

7.6. Review of Measurement Books

(1) The Measurement Books are required to be reviewed by Divisional Accountant under the supervision of Executive Engineer (E). The Sub-Divisional Engineer (E) s are required to submit the Measurement Books in use in the Sub-Divisions to the Divisional Office, from time to time, so that at least once a year the entries recorded in each of the Books are subjected to a percentage check. The Divisional Officer should ensure that this annual review is conducted regularly and positively every year.

(2) The review by the Divisional Accountant shall be in the following respects: -

(i) To compare the books in use with part I of the Register of Measurement Books maintained in CPWA Form 92, and to note necessary corrections in the Register.

(ii) To see that no original sheet is torn out of a Measurement Book, nor any entry erased or disfigured, and that the corrections made therein are initialed.

(iii) To see that pencil entries are not inked over.

(iv) To test check the accuracy of calculations, and to ensure that the instructions regarding writing of Measurement Books, recording of measurements, and their test check are being followed properly.

(3) On receipt of the Measurement Books in the Divisional Office, the Executive Engineer(E)should indicate in column 2 of the "Review Notes" in each Measurement Book as referred to in para 7.6(5) below as to which of the calculations are to be test checked by the Divisional Accountant. The extent of this check will be determined by the Executive Engineer (E)having regard to the result of the last review, and should cover complete set of measurements.

(4) Payments based on the entries reviewed should be traced into various accounts and verified. Similarly, supplies or issue of materials should be traced into the various accounts, contractor's ledger, etc. and verified.

(5) Communication of discrepancies

The defects, discrepancies, etc. noticed should be communicated to the Sub-Divisional Engineer (E)concerned and summarized in the following form in the Measurement Book that has been test audited:

Review Notes by Divisional Accountant

Pages reviewed generally	Calculations selected by Divisional Officer for re-check		Defects and discrepancies noticed	Dated initials of	
	Pages	Dated initials		Divisional Accountant	Divisional Officer

Contractor

Executive Engineer (E)

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

1	2	3	4	5	6

(6) The Measurement Book completed and returned for record during the year should also be similarly examined prior to their final record in the Divisional Office.

7.7. Loss of Measurement Books

(1) When a Measurement Book is lost, an FIR should be lodged with the police.

(2) An immediate report of the facts of the case together with an explanation of all parties concerned responsible for the loss should also be made promptly to the Chief Engineer, who is empowered to sanction the write off of the lost Measurement Books. In case of theft or loss of a blank Measurement Book, the Superintending Engineer shall be the competent authority to write off the loss.(3) Such losses for write off should be reported in the proforma as at Appendix 10.(4) It is also necessary that the measurements in the lost Measurement Book should be reconstructed at the earliest.

2. The M.B. movement Register is opened in the Sub Division and all other routine procedures followed in case of normal Measurement books are also followed in computer Measurement Books also.

PROFORMA OF SCHEDULES

(Operative Schedules to be supplied separately to each intending tenderer)

SCHEDULE 'A'

Schedule of quantities: As per enclosed schedule of work

SCHEDULE 'B'

Schedule of materials to be issued to the contractor: As per schedule attached

Sr. No.	Description of item	Quantity	Rates in figures and words at which the material will be charged to the contractor	Place of Issue
1	2	3	4	5
NIL				

SCHEDULE 'C'

Tools and plants to be hired to the contractor

Sr. No.	Description of item	Hire charges per day	Place of Issue
1	2	3	4

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

NIL

SCHEDULE 'D'

Extra schedule for specific requirements/documents for the work, if any

1. NIL

SCHEDULE 'E'

Schedule of component of Materials, Labour etc. for escalation.

Clause 10

Component of materials expressed as percent of total value of work	<u>75%</u>
Component of labour expressed as percent of total value of work.	<u>25%</u>
Component of P.O.L expressed as percent of total value of work.	<u>0 %</u>

SCHEDULE 'F'

Reference to General Conditions of contract.

Name of work:	<i>Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)</i>
Estimated cost of work:	<i>1,99,910/-</i>
i) Earnest money :	<i>3,998/-</i>
ii) Performance Guarantee:	5% of the contract value of the work
iii) Security Deposit:	10 % of the contract value of the work.
GENERAL RULES and DIRECTIONS:	Officer inviting tender The Executive Engineer (E), BSNL Elec.Division, Warangal
Definitions:	For all terms appearing anywhere in this tender document the following definitions will apply
Engineer-in-Charge	Executive Engineer (E), BSNL Elec.Division, Warangal
Accepting Authority	Executive Engineer (E), BSNL Elec.Division, Warangal

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

Department	BSNL		
Standard CPWD/BSNL contract Form	CPWD/BSNL W-8 as modified and corrected up to date.		
Time allowed for submission of Performance Guarantee from the date of issue of letter of award of work.	NA		
Maximum allowable extension beyond the period provided for submission of Performance Guarantee from the date of issue of award letter of work.	NA		
Authority for fixing compensation under Clause 2 of form CPWD/BSNL W- 8	SE (E), BSNL Electrical Circle, Hyderabad.		
Number of days from the date of issue of letter of award of work for reckoning date of start	10 days		
Milestone(s) as per table given below :			
Table of Mile Stone(s) for individual work			
Sl. No.	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be with-held in case of non achievement of Milestone
1	Supply of Equipment	NA	As per contract clauses for delay in overall timeline for work
2	Testing and Commissioning	NA	
Time allowed for execution of work.		1 Months	
Authority to give fair and reasonable extension of time for completion of work.		EE (E), BSNLED, Warangal/Superintending Engineer (E), BSNL Electrical Circle, Hyderabad.	
Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the		Not applicable	

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

<i>period shown in next column.</i>	
<i>Specifications to be followed for execution of work</i>	<i>As per contract document</i>
<i>Deviation Limit beyond which clauses 12 (ii) and 12 (iii) shall apply</i>	<i>50%</i>
<i>Clause 36: Minimum Qualifications and experience required for Principal Technical Representative.</i>	
<i>a) For works with estimated cost put to tender more than</i> <i>i) Rs 1 lakh</i>	<i>Graduate with not less than 3 years experience or a diploma holder with not less than 7 years experience</i>
<i>ii) more than Rs 50,000/- but less than Rs 1 lakh</i>	<i>Graduate with not less than 2 years experience or a diploma holder with not less than 3 years experience</i>
<i>iii)less than Rs 50,000/-</i>	<i>Diploma holder with not less than 2 years Experience</i>
<i>c) Discipline to which the Principal Technical Representative should belong.</i>	<i>Electrical/Mechanical</i>
<i>d) Recovery to be effected from the contractor</i> <i>in the event of not fulfilling provision of clause 36(1)</i>	<i>Rs.4,000/- p.m. for Graduate</i> <i>Rs.2,000/- p.m. for Diploma holder</i>

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sr. No.	Description of Item	Rates in figures and words at which recovery shall be made from the Contractor Rate in schedule 'B' plus 10% in case materials issued by Department
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Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

		Excess beyond permissible Variation	Less use beyond permissible variation
1	Cement	NIL	
2	Steel reinforcement		
3	Structural Sections		
4	Bitumen issued free		
5	Bitumen issued at stipulated fixed price		

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)

Sl no	DESCRIPTION OF ITEM	QTY	RAT E	UNI T	AMT
SH-I	AVIATION LIGHTING				
	REPLACEMENT OF AOL				
1	Supplying and fixing of low intensity high power LED type RED colour Aviation Obstruction Light(AOL) with cast Alluminium housing suitable for operation on 230 V AC supply on existing GBT/RTT of 60/40mtrs/30mtrs/21/9 mtrs height as per site conditions.The fitting shall have day light sensor and provision for cable entry and termination etc.,as required.The agency shall replace the existing faulty AOL and fix the new one including all minor modifications if any required.(Degree of protection IP:65)	5	Sets	Each	
	CABLING AND MCB :				
2	Supplying and laying 2 core 1.5 sqmm XLPE insulated Armoured copper conductor cable of 1.1 KV Grade on the existing cable tray/on surface of wall with locking tags/clamps etc.,as required.	100	Mtrs	Mtr	
3	Supply and making end termination with brass compression gland and lugs for following size of XLPE insulated cable of 1.1 KV grade etc.,as required. A) 2x1.5 Sqmm copper armoured cable	10	Sets	Set	
4	Supplying and fixing 6 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. a) 6A to 32 A Single pole .	5	Nos	Each	
5	Supplying and fixing of 10 Amps 2 way bakelite connector in the suitable size MS box i/c interconnections of existing cables as per site requirement etc.,complete as required.	5	Jobs	Each	

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

SH II	Equipment Earthing				
	PLATE EARTHING				
1	Providing Earthing with G.I. earth plate of 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	5	Sets		Each
2	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	15	mtrs		mtr
3	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	25	mtrs		Mtr
4	Providing and fixing 50 mm X 3 mm G.I. strip on surface or in recess for connections etc. as required.	20	Mtrs		Mtr
5	Supplying and laying of 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	40	Mtrs		Metre
6	Supplying and laying of 35 sqmm multistrand single core PVC insulated copper cable from Main earth electrode to DC earth busbar i/c terminations with copper lugs etc.,as required	50	Mtrs		Mtr
	EARTH RECONDITIONING				
	EARTH STRIP CONTINUITY CHECK				
8	Improving of Earth continuity from existing earth electrode by making good of loose joints and connections and also providing missing nuts,bolts,spring washers etc.,as required.	5	Jobs		Metre
	EARTH PIT RECONDITIONING				

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

9	Providing attending minor works at existing earth pit including making good of loose joints and connections and brushing with salt paper and providing missing nuts,bolts,spring washers,water funnel and adding salt water to improve earth resistance and providing earth manhole cover made of heavy duty FRP material and writing of latest earth resistance value etc.,as required as per site conditions.	5	Jobs		Each
10	Measurement of earth resistance of existing earth pits at site in the presence of site incharge and submitting report etc.,as required.	5	Jobs		Each
SH-III	LIGHTNING ARRESTOR				
11	Providing and fixing 25 mm X 3 mm G.I. strip along the tower/Wall with suitable insulators /clamps fixed at suitable interval etc.,as required.(For Vertical Run)	35	Mtrs		Mtr
12	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	2			Each
13	Providing and fixing of lightning conductor finial made of 25mm dia 900 mm long GI pipe (B-class) having single prong at top of the tower with suitable size GI base plate including holes etc.complete as required.	3	Sets		Each
					Total Net amount
	Executive Engineer (E)				
					Add GST @ 18%
					Total including GST

Name of Work: -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

Important Note:

1	The prices shall be quoted after taking into account the entire credit on inputs under GST act introduced with effect from 1st July 2017.
2	The firm shall be responsible to see that input tax credit shown in the above columns are correct & input tax credit for amount shown above are admissible as per the GST ACT 2017.
3	Invoice favouring BSNL shall be issued by the supplier/ agency indicating GST (as applicable CGST/ SGST/ IGST) with documentary proof to avail GST input tax credit.
4	The rates quoted shall be inclusive of all taxes and duties.
5	The evaluation and comparison of responsive bids shall be done on the basis of Net cost to BSNL on the prices offered inclusive of all duties and taxes (but excluding input tax credit), packing, forwarding, freight and insurance charges etc., as indicated in the price schedule. Octroi/ Entry tax are not to be included in the composite price and hence the same will not be considered for the purpose of evaluation and comparison of responsive bids. However, Octroi/ Entry tax will be paid extra, as per actuals wherever applicable on production of proof of payment/ relevant invoices/ documents.
6	If documentary proof is not produced for any levy / duty quoted in column no. 7, the amount for the same shall not be paid..
7	The firm should quote for each item separately. They should not club the items while quoting.
8	In case of ambiguity, between schedule and specifications, schedule shall prevail. If there is ambiguity between "schedule and specification" verses IS / BS standards, "schedule and specification" shall prevail.
9	EPF & ESI contribution is not included in the analysis of rates, it shall be reimbursed on actual basis for the contractor.

Name of Work: : -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

LIST OF APPROVED MAKES- BSNL ELECTRICAL WING

S. No.	Item	Makes
1	Engine	Ashok Leyland /Cummins/ Cater pillar / KOEL/ Volvo Penta / Mahindra & Mahindra (up to 40 KVA) /Escorts (up to 30 KVA)/ Eicher (up to 20 KVA)
2	Alternator(Brushless)	Crompton Greaves (AL. series) / KEC / Leroy Somer / Stamford/Jyoti Ltd
3	Battery (Lead Acid / Mntc. Free)	Amara Raja / AMCO / Farukawa / Hitachi / Exide/ Prestolite / Standard
4	HV Switchgear (Vacuum Circuit Breaker/SF6)	BieccoLawrie / Crompton / Kirloskar / MEI / Jyoti Ltd
5	Transformer (Oil filled / Dry type)	ABB / Schneider Electric /Andrew Yule / Bharat Bijlee / Crompton / EMCO / Kirloskar / Siemens
	a) Above 400 KVA	
	b) Up to 400 KVA	In addition to above makes, Uttam/Automatic Electric Gear(AEG)/Patson/Rajasthan Transformer and Switchgear
6	Air Circuit Breaker	L&T/ Schneider Electric / Siemens
7	MCCB (Ics=Icu)	L&T/ Schneider Electric / Siemens
8	SDF units	L&T/ Schneider Electric / Siemens/ HPL/Havells
9	Power Contactors	L&T/ Schneider Electric / Siemens/ Lakshmi(LECS)
10	Change Over Switch	HPL / Havells / H-H Elcon
11	Intelligent APFC Relay	L&T/EPCOS(Siemens)/ Schneider Electric / Neptune Ducati /Syntron /ABB
12	Bus Bar Trunking / Sandwiched Bus Duct	Moeller/L&T/Schneider Electric/ABB/Legrand/Zeta
13	Power Capacitors (MPP/APP)	L&T/EPCOS(Siemens)/ABB/Crompton/ Schneider Electric/Neptune Ducati
14	Digital/ KWHr meter	Schneider Electric/ AE/ Digitron / IMP/ Mecor / Rishabh / Universal/HPL/L&T/ABB
15	Cold shrink HT/LT Cable Joint	Denson / 3M(M-Seal)/ Raychem
16	Rubber Matting	ISI mark
17	MCB/ Isolator /ELCB/RCCB/ Distribution Board	Crompton / Havells / Indokopp / MDS Legrand/ L&T / Schneider Electric/ Siemens / Standard/ C&S/ABB/HPL
18	MS/ PVC Conduit	ISI mark
19	Cable Tray	MEM/Bharti/Ratan/Slotco/Profab
20	HT/LT Cables	ISI mark
21	PVC insulated copper conductor wire	ISI mark

Name of Work: : -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

22	Centrifugal Pump	Amrut / BE / Beacon / Batliboi / Crompton / Jyoti / Kirloskar / KSB / Mather &platt / WASP/Grundfos
23	Submersible Pump	Crompton/Amrut / BE / Calama / Kirloskar / KSB
24	Motors	ABB/ Bharat Bijlee / Crompton Greaves / Schneider Electric / HBB / KEC / Siemens/Jyoti Ltd
25	Fresh Air Fans	GE / Khaitan/Almonard/Crompton
26	Starter	ABB / BCH / Schneider Electric / L&T / Siemens
27	Single Phase Preventer	L&T / Minilec / Siemens / Zerotrip
28	GI/MS Pipe	ATC / ATL / BST / GSI / ITC / ITS / IIA / JST / Jindal /TTA / Tata/Zenith
29	Foot Valve	ISI mark
30	Gate Valve	Advance/Audco/Johnson Controls/Zoloto/Annapurna / Fountain / Kirloskar / Leader / Sant / Trishul
31	Compressors	Carrier/Emerson copeland/York/Danfoss (for chillers only)
32	Resin Bonded Glass wool	Fibre Glass / Pilkington / UP Twiga
33	Expanded Polystyrene	BASF(India) Ltd.
34	Gauge	Feibig / H.Guru / Pricol
35	Controls	FLICA / Honeywell / Indfoss / Penn-Danfoss / Ranco / Ranutrol / Sporland
36	Fine Filters	Anfiltra Effluent / ARW / Athlete/ Airtake/ Dyna / Kirsloskar/ Puromatic/ Purafill/ Purolator / Tenacity
37	GI Sheet	HSU Jindal / National / Nippon Denro / Sail / Tata
38	Heat Detector	Appollo / Chemtron/ Edward / Fenwal/ Hochiki / Nitton /System Sensor/ Wormald/Honeywell Essar/Notifier
39	Ionization Detector	Appollo / Cerebrus / Edward/ /Fenwal / Hochiki / Nitton / System Sensor / Wormald
40	Photo Electric Smoke Detector	Appollo / Cerebrus / Edward / Fenwal/ Hochiki / Nitton / Wormald
41	Fire Panel (Microprocessor based)	Agni Instruments / Agni Devices/ Aruna Agencies/ Carmel Sensor / Ravel Elect./Honeywell Essar/Notifier/Navin Systems
42	Sprinkler/ Hose Reel & Hose Pipe	ISI mark
43	Fire Extinguisher	ISI mark
44	Lift	OTIS, Kone, Mitsubishi , Schindler,Johnson

NOTE:

In case of External / PMC works, the list of approved makes may be modified as per client's requirement.

The accessories such as CT/PT/measuring instrument/relays provided by approved make in respect of Transformer/HT Panel/DG /AC Package Units as supplied by approved manufacturer along with the equipments are also acceptable in addition.

Any additional makes may be approved by concerned PCEs/Sr CEs/CEs(Elect) for the work under his jurisdiction as already accorded vide letter no. 3-2-5/EW/VEP-1/2007 dated 05-07-2007.

Contractor

Page 34 of 41

Executive Engineer (E)

Name of Work: : -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

**MODEL FORM OF BANK GUARANTEE (ANNEXURE -I)
(for submitting EMD)**

Whereas _____ hereinafter called "the contractor(s)" has submitted its Tender dated _____ for the work _____

KNOW ALL MEN by these presents that WE _____ of _____ having our registered office at _____ (hereinafter called "the Bank") are bound unto _____ (hereinafter called "the BSNL") in the sum of _____ for which payment will and truly to be made of the said BSNL, the Bank binds itself, its successors and assigns by these presents.

THE CONDITIONS of the obligation are:

1. If the Contractor(s) withdraws its Tender during the period of Tender validity specified on the Tender Form: or
2. If the Contractor(s) having been notified of the acceptance of its Tender by the BSNL during the period of Tender validity.
 - (a) Fails or refuses to execute the Contract.
 - (b) Fails or refuses to furnish security Deposit in accordance with the conditions of Tender document.

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

This guarantee will remain in force as specified in the Tender Document up to and including Thirty (30) days after the period of the Tender validity and any demand in respect thereof should reach the Bank not later than the specified date/dates.

Signature of the Bank

Signature of the Witness

Name of Witness Address of Witness

Name of Work: : -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

PERFORMANCE SECURITY GURANTEE BOND (ANNEXURE -II)

1. In consideration of the CMD, BSNL (hereinafter called 'BSNL') having agreed to exempt _____(hereinafter called 'the said contractor(s)') from the demand under the terms and conditions of an agreement/Advance Purchase Order No. _____dated:_____made between _____ and _____ for the supply of _____ (hereinafter called "the said agreement"), of security deposit for the due fulfillment by the said contractor (s) of the terms and conditions contained in the said Agreement, on production of the bank guarantee for _____ we, (name of the bank) _____ (hereinafter refer to as "the bank") at the request of _____ (contractor(s)) do hereby undertake to pay to the BSNL an amount not exceeding against any loss or damage caused to or suffered or would be caused to or suffered by BSNL by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.
2. We (name of the bank) _____ do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the BSNL by reason of breach by the said contractor(s)' of any of the terms or conditions contained in the said Agreement or by reason of the contractors(s)' failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee where the decision of BSNL in these counts shall be final and binding on the bank. However, our liability under this guarantee shall be restricted to an amount not exceeding _____.
3. We undertake to pay to the BSNL any money so demanded notwithstanding any dispute or disputes raised by the contractor(s)/supplier(s) in any suit or proceeding pending before any court or tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the contractor(s)/supplier(s) shall have no claim against us for making such payment.
4. We (name of the bank) _____ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the BSNL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till _____(office/Department) BSNL certifies that the terms and conditions of the said Agreement have been fully or properly carried out by the said contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the expiry of ONE YEAR after actual completion of work.
5. We (name of the bank) _____ further agree with the BSNL that the BSNL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the

Name of Work: : -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the BSNL against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the BSNL or any indulgence by the BSNL to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s)/supplier(s).
7. We (name of the bank) _____lastly undertake not to revoke this guarantee during its currency except with the previous consent of the BSNL in writing.

Dated the _____day of _____
for _____

Name of Work: : -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

NO NEAR RELATIVE WORKING CERTIFICATE (ANNEXURE -III)

I _____ Son of Shri _____ Resident of _____ hereby certify that none of my relative(s) as defined in the tender document is/are employed in BSNL unit as per details given in tender document. 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.

(Seal of the firm)

(Signature of Bidder)

UNDERTAKING REGARDING EPF PROVISIONS (ANNEXURE -IV)

"I _____ Son of _____ Resident of _____ hereby give an undertaking that

* I/We have employed only _____ persons in our establishment and hence the EPF and Miscellaneous provisions Act, 1952 is not applicable to my / our establishment.

* I/ We have registered as per the EPF and Miscellaneous provisions Act, 1952 and our registration no is _____. We undertake to keep it valid during the currency of contract.

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".

* strike out whichever is not applicable

** Attach a self-attested photo copy of the above said EPF registration certificate.

(Seal of the firm)

(Signature of Bidder)

Name of Work: : -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

UNDERTAKING REGARDING ESI PROVISIONS (ANNEXURE -V)

"I _____ Son of _____ Resident of _____ hereby give an undertaking that

* I/We have employed only _____ persons in our establishment and hence the ESI and Miscellaneous provisions Act,1948 is not applicable to my / our establishment.

* I/ We have registered as per the ESI and Miscellaneous provisions Act, 1948 and our registration no is _____. We undertake to keep it valid during the currency of contract.

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".

* strike out whichever is not applicable

** Attach a self-attested photo copy of the above said ESI registration certificate.

(Seal of the firm)
Bidder)

(Signature of

UNDERTAKING TO ABIDE BY EW 6 & EW 8 (ANNEXURE -VI)

"I _____ Son of _____ Resident of _____ hereby give an undertaking that I have read the complete bid document and I am aware of all the clauses and sub clauses of BSNL EW 6 & 8 forms and I confirm that I will abide by all the terms and conditions available in original standard BSNL EW 6 & 8 forms.

(Seal of the firm)
Bidder)

(Signature of

IMPORTANT NOTE:

The BSNL EW 8 Form is available at <http://www.ap.bsnl.co.in> for ready reference and download

Name of Work: : -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

COMPLIANCE SHEET (ANNEXURE -VII)

I/We _____(Name of firm) have read/Understood all the terms and conditions as mentioned in bid Document and accept the same unconditionally.

I/We state to comply in full manner with all the General, Commercial, Technical and Operating financial conditions of the tender document for the work of: *Name of the Work : -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....* without any reservation and deviation. It is certified that the Tender Document i/c all credentials has been submitted with Signatures.

(Seal of the firm)

(Dated Signature of Contractor)

IMPORTANT NOTE:

The BSNL EW 8 Form is available at <http://www.ap.bsnl.co.in> for ready reference and download.

Name of Work: : -Replacement of AOL, Equipment Earthing, Lightning Arrestors and Connected works for Five numbers RAN sites under Phase IX.2 4G Project Under Nizamabad BA (DTO Building,Dwaraka Nagar,KMD Ashoknagar , NGO Colony, and Ramnagar)....

ANNEXURE

LIST OF INDIAN STANDARDS

- I.S.277 Galvanized steel sheets.
- I.S.325 Three Phase Induction Motors
- I.S.655 Metal Air Ducts
- I.S.732 Code of Practice for Electrical Wiring and fittings for Buildings.
- I.S.778 Gun Metal Gate, Globe and Check Valves for general purposes.
- I.S.900 Code of Practice for Installation and Maintenance of Induction Motors.
- I.S.996 Single Phase small AC and Universal Motors.
- I.S.1239 Mild Steel Tubes, G.I. Pipes, Tubular and other wrought steel fittings.
- I.S.1248 Direct Acting Electrical Indicating Instruments.
- I.S.1520 Horizontal Centrifugal Pumps for clear, cold and fresh water.
- I.S.1554 PVC Insulated (heavy duty) Electrical Cables (Part-I) for working voltages up to and including 110 volts.
- I.S.2372 Timber for cooling towers.
- I.S.2516 AC Circuit Breakers.
- I.S.2592 Recommendation for Methods of Measurements of Fluid flow by means of Orifice Plates and Nozzles.
- I.S.1822 Motor Starters of Voltage not exceeding 1000 volts.
- I.S.2208 HRC Cartridge Fuse – Links up to 650 volts.
- I.S.3589 Electrically welded steel pipes for water, gas and sewage.
- I.S.3624 Bourden Tube Pressure and Vacuum Gauges.
- I.S.4047 Heavy Duty air break switches and composite units of air break Switches and fuses for voltage not exceeding 1000 volts.
- I.S.6392 Steel Pipe Flanges.
- I.S.7403 Code of Practice for Selection of Standard Worm and Helical Gear Boxes.
- I.S.8148 Specification for packaged air conditioning.

IMPORTANT NOTE

All references to I.S.I. appearing in this specification may be read as Bureau of Indian Standards, Latest amended versions.

ANNEXURE

LIST OF SAFETY STANDARDS

- I.S.618 Code of Practice for safety and health requirements in Electrical and Gas Welding and Cutting Operations.
- I.S.659 Safety code for Air Conditioning.
- I.S.660 Safety code for Mechanical Refrigeration.
- I.S.3016 Code of Practice for Fire precautions in welding and cutting operations.
- I.S.3210 Code for Safety procedures and practices in Electrical works.
- I.S.3696 Safety for Scaffolds and Ladders.

INDIAN ELECTRICITY RULES 1956

Note:-Tender documents & BSNL EW-8 General conditions of contract work for electrical works can also be downloaded from the website

http://www.telangana.bsnl.co.in/tenders_active.php