



# Bharat Sanchar Nigam Limited

(Electrical Wing)

O/o The Executive Engineer (E)

BSNL Electrical Division-I

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## **E-TENDER DOCUMENT**

**Name of work: SITC of 6Nos 30 KVA Engine Alternator set with acoustic enclosure for Various RSUs under Chennai Telephones District, Chennai.**

**NIT no: 06/EEE/ED-I/CH/2018-19**

This tender document contains **37 pages (thirty seven)** pages only

**For E-Tender Helpdesk Please Contact M/s ITI LTD: Ph: 080-40482000 & Mail Id: twhelpdesk399@gmail.com, bsnltwhelpdesk@gmail.com**

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**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE**

The Executive Engineer (Elect), BSNL, **Electrical Division-I, Chennai** on behalf of the CMD, Bharat Sanchar Nigam Limited, invites online Item rate bids from eligible bidders in Single bid system for the following work:

|    |   |   |
|----|---|---|
| 1  | Name of work  | <b>SITC of 6Nos 30 KVA Engine Alternator set with acoustic enclosure for Various RSUs under Chennai Telephones District, Chennai.</b> |
| 2  | Estimated cost put to tender                                    | <b>Rs. 24,48,696/-</b> Excluding GST  |
| 3  | Earnest Money   | <b>Rs. 48,974/-</b>   |
| 4  | Period of completion  | 6 months for Rate Contract & two month for individual agreement   |
| 5  | Tender Fee(Non-refundable)                                      | Rs. 500/- +18% GST  |
| 6  | Last date & time for downloading of tender document by bidder   | Up to 14:55 Hrs. on 04/05/2018  |
| 7  | Last date & time for online submission of tender                | Up to 15:00 Hrs. on 04/05/2018  |
| 8  | Last date & time for submission of original Tender cost and EMD | Up to 15:00 Hrs. on 04/05/2018  |
| 9  | Date and time for opening of tender                             | 15:30 Hrs. on 04/05/2018.   |
| 10 | E-tender Processing fee (Non-refundable)                        | 0.05% of estimate cost subject to the minimum of Rs.500/- and Maximum of Rs. 5000/- plus GST as applicable.                           |

**ELIGIBILITY CRITERIA**

a) Financial Norms:

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

(b) Physical Norms:

1) BSNL enlisted contractors in Electrical category of respective class as per their tendering limits.

OR

2) BSNL CO (Electrical) approved Engine manufacturer with the approved capacity of engine not less than the DG set capacity proposed in the NIT.

OR

3) OEM authorized by BSNL CO (Electrical) approved Engine manufacturer with the approved capacity of engine not less than the DG set capacity proposed in the NIT. The letter of Authorization in Original from the Engine manufacturer will have to be produced by the OEMs.

OR

4) Experience of having successfully completed similar works in Central Government / State Government / Central Autonomous Body / Central Public sector Undertaking 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 of **Rs.979478/-** with DG set capacity not less than 80% of individual capacity of the DG set proposed in the NIT.

(OR)

- Two similar successfully completed works costing not less than the amount of **Rs.14,69,218/-** with DG set capacity not less than 80% of individual capacity of the DG set proposed in the NIT.

(OR)

- One similar successfully completed work costing not less than the amount **Rs.1958957/-** with DG set capacity not less than 80% of individual capacity of the DG set proposed in the NIT.

- Note:-Similar work means "Supply, installing, testing and commissioning of DGs sets with acoustic enclosure"

IMPORTANT NOTE:

1. The self-attested copies of the following documents shall be scanned and uploaded to the e-tendering website within the period of tender submission. Online bid documents submitted by intending bidders shall be opened only of those bidders, who have scanned and uploaded the following documents (and whose uploaded documents are found to be in order), otherwise the bid will not be opened and shall lead to disqualification.

- a. Tender Fee in the prescribed format
- b. EMD in the prescribed format
- c. Certificate of Financial Turnover from Chartered Accountant if applicable
- d. Documents fulfilling Eligibility criteria (Please note that in case the bidder is authorised by the manufacturer, the original authorisation letter is to be scanned and uploaded)
- e. Enlistment certificate issued by BSNL (for BSNL enlisted contractors)
- f. ~~Electrical license issued by TN Govt. if applicable~~
- g. GST Registration Number details
- h. PAN Card
- i. EPF and ESI Registration certificate (if applicable)
- j. Undertaking to abide by EW-6 and EW-8 (Form 'A')
- k. Undertaking regarding EPF and ESI provisions (Form 'B')
- l. Certificate of work experience issued by client department (Form 'C') if applicable
- m. Undertaking regarding No Near relative working certificate (Form 'D')

**Not uploading the above documents, (even if the documents are submitted physically) shall lead to disqualification.**

2. The Physical Tender Fee, EMD, and if applicable the original authorisation letter by the manufacturer, (the scanned copies of which are uploaded) **shall be deposited in the tender box available in the office of tender opening authority**, by all the bidders before 3:00 PM on the tender opening date, **failing which the tender shall not be opened.**

**BSNL EW-6**  
Bharat Sanchar Nigam Limited  
Electrical Wing

Electrical Division: **ED-I, Chennai.**

Sub Division:

1. Item rate tenders on single bid system are invited on behalf of CMD, BSNL for the work **"SITC of 6Nos 30 KVA Engine Alternator set with acoustic enclosure for Various RSUs under Chennai Telephones District, Chennai."** from the eligible bidders as per NIT notification. The enlistment of the bidders should be valid on the opening date of tender. In case the date of opening of tender is extended, the enlistment of bidder should be valid on the original date of opening of tender.
2. Intending bidder is eligible to submit the bid provided that he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority as per the eligibility conditions mentioned in the NIT notification page.
3. The work is estimated to cost **Rs. 24,48,696/- (Excluding GST)**
4. Agreement shall be drawn with the successful bidder on prescribed form as amended up to the date of opening of tender. Bidder shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
5. The validity of Rate contract will be **6 months** from the date of award of rate contract and the time allowed for carrying out the work will be **two months** for individual agreement from the 10<sup>th</sup> day after the date of written order to commence the work.
6. The site for the work is available / or the site for the works shall be made available in parts. The successful bidder shall execute the work in coordination with other agencies working in the campus.
7. The bid documents consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website **[www.tenderwizard.com/BSNL](http://www.tenderwizard.com/BSNL)** at free of cost. The BSNL EW-8 document can be seen from the web site **[www.chennai.bsnl.co.in](http://www.chennai.bsnl.co.in)** at free of cost.
8. After submission of the bid, the bidder can re-submit revised bid any number of times but before last time and date of submission of tender as notified. While submitting the revised bid, bidder can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified.
9. The Tender Fee in the form of Demand Draft issued by the Nationalized / Scheduled bank authorized by the Reserve Bank of India, drawn in favour **of BSNL, CHENNAI TELPHONES** payable at **CHENNAI** shall be scanned & uploaded in the e-tendering website within the period of tender submission. The validity of the tender cost in the form of DD shall be **60 days** from the date of opening.
10. The Earnest money deposit (EMD) for in the form of Demand Draft / FDR / BG (BG is only for Air Conditioning, Diesel Engine Alternator, Lifts, and Sub Station works wherever the amount of EMD is more than Rs.20,000)/ CDR of a nationalized / scheduled bank authorized by the Reserve Bank of India, drawn in favour of **BSNL, CHENNAI TELPHONES payable at CHENNAI** shall be scanned & uploaded in the e-tendering website within the period of tender submission. The validity of the EMD in the form of DD

shall be **60 days** from the date of opening. If the EMD is in the form of CDR/FDR/BG, the validity shall be **180 days** from the date of opening. In case of L1 bidder, the validity of CDR/FDR/BG is to be extended up to the observation period as that of the Performance guarantee / Security deposit. Exemption from payment of Tender Fee, Earnest Money and Security Deposit by any other unit/ department shall not hold good for BSNL.

11. Interested bidder who wishes to participate in the bid shall pay the e-tender processing fee to M/s. ITI Limited through their e-gateway by credit/debit card/ internet banking/ RTGS/NEFT facility.
12. All the documents as specified in the tender document shall be scanned and uploaded to the e-Tendering website within the period of bid submission.
13. The last date for online submission of bid is **04.05.2018** up to 3:00 PM and the bid submitted shall be opened at 03:30 PM on the same day. If a holiday is declared on the tender opening day, the tender will be opened on the next working day.
14. The e-Tender processing fee and tender cost are non-refundable
15. **Performance Guarantee:** The bidder 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 acceptance letter. This period can be further extended by the Engineer-in-charge up to a maximum period of two weeks on written request of Bidder. The validity period of the performance security in the form of performance bank guarantee shall be: Three Months from the date of actual completion of work, for AMC works; and One year from the date of actual completion of work for all other works. **In case the bidder fails to deposit the said performance guarantee within the stipulated period, including the extended period if any, the Earnest Money deposited by the bidder shall be forfeited automatically without any notice to the bidder and the bidder will not be allowed to participate in the re tendering for the same work.**
16. **Security Deposit:** In addition to 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, will amount to security deposit of 5% of the contract value of the work. **The security deposit shall be released after an observation period as follows: Three Months from the date of actual completion of work, for AMC works; and One year from the date of actual completion of work for all other works.**
17. In case any discrepancy is noticed in the documents as uploaded at the time of submission of the bid online, then the bid submitted shall become invalid and the BSNL shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further, the bidder shall not be allowed to participate in the retendering process of the work.
18. Intending bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders, the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for

arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the BSNL and local conditions and other factors having a bearing on the execution of the work.

19. The competent authority on behalf of the CMD does not bind himself to accept the lowest or any other tender and reserves to himself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected. The competent authority on behalf of CMD reserves to himself the right of accepting the whole or any part of the tender and the bidder shall be bound to perform the same at the rate quoted.
20. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the bidders who resort to canvassing will be liable to rejection.
21. Agreement shall be drawn with the successful bidder on prescribed form. Bidder shall quote his rates as per various terms and conditions of the said form, which will form part of the agreement.
22. The bidder should give a certificate as per the following that none of his/her relative is employed in BSNL units as per **Form 'D'**. In case of proprietorship firm, certificate will be given by the proprietor and for partnership firm certificate will be given by all the Directors of the company.
  - a. 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:
    - i. Members of a Hindu Undivided family.
    - ii. They are husband and wife.
    - iii. The one is related to the other in the manner as father, mother, son(s) & son's wife(daughter-in-law), Daughter(s) & daughter's husband(son-in-law), brother(s) & brother's wife, sister(s) & sister's husband(brother -in-law).
  - b. 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 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 bidder 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 and 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.

- c. 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 bidder 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 bidders service.
23. The tender for the work shall remain open for acceptance for a period of ninety (90) days from the date of opening of tenders. If any bidder withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the BSNL, then the BSNL shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the retendering process of the work.
24. The agency has to comply with the provisions 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 consequence arising due to non-complying of provisions as specified above shall be the sole responsibility of the firm only. The agency shall give an undertaking to this effect as per **Form 'B'**.
25. **Extension of Validity of tender:** In case, where the letter of award of work cannot be placed within the validity period of the tender, the BSNL can request the bidder 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.
26. Rates quoted by the contractor shall be firm and shall be valid for the currency of contract. No cost escalation shall be permitted during the currency of contract.
27. This notice inviting tender shall form a part of the contract document. The successful bidder, on acceptance of his tender by the Accepting Authority shall within 15 days from the stipulated date of start of the work, 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 as uploaded at the time of invitation of tender, subsequent amendments issued and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
  - b. Standard BSNL EW-8 form



### **General Instructions to the Bidders**

1. The intending bidder must read the terms and conditions of BSNL-EW 6 carefully. He should only submit his bid, if he considers himself eligible and he is in possession of all the documents required.
2. Information and instructions for bidders posted on website shall form part of bid document.
3. Applicants are advised to keep visiting the above mentioned website from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updates thereof, if any. An incomplete application may be liable for rejection.
4. Those bidders not registered on the website mentioned above, are required to get registered themselves beforehand. The intending bidder must have valid class-III digital signature to submit the bid.
5. On opening date, the bidder can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
6. Bidder can upload documents in the form of JPG format or / and PDF format.
7. Bidder must ensure to quote rate of each item. The column meant for quoting rate in figures appears in yellow colour. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO)
8. Even though any bidder may satisfy the above requirements, he would be liable to disqualification if he has:
  - a. Made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the eligibility criteria document.
  - b. Record of poor performance such as abandoning work, not properly completing the contract, or financial failures / weaknesses etc.
9. If any information furnished by the bidder is found incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of works in BSNL. The BSNL reserves the right to verify the particulars furnished by the applicant independently.
10. GST and any other tax applicable in respect of this contract shall be borne by the bidder himself. The bidder shall quote his rates considering all such taxes. The TDS as per the Govt. regulations will be recovered from the contractor.
11. **Tender Evaluation :**
  - (a) The evaluation and comparison of responsive bids shall be done on the basis of Net cost to BSNL on the prices offered inclusive of packing, forwarding, freight and insurance charges etc., but excluding GST. The bid with lowest net cost as elaborated above will be the L1 bidder.
  - (b) Vendors should furnish the correct GST Rate in the price schedule. If the Input Tax Credit is found to be not admissible at any stage subsequently owing to wrong furnishing of GST Rate, then the vendors will be liable to refund such non-admissible amount, if

already paid, along with penalty if charged by the concerned authority.

12. However, pursuant to the constitution (Forty-sixth amendment) act, 1982, if any further tax or levy is imposed by statute, after the last 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, is not in the opinion of Superintending engineer (whose decision shall be final and binding) be attributable to delay in execution of work within the control of contractor.
13. The Contractor shall, within a period of 30 days of imposition of any further tax or levy in pursuant to the constitution of (Forty sixth amendment) act 1982 give a written notice thereof to the Engineer-in-charge that the same is given pursuant to this condition, together with all necessary information relating thereto.

**14. Bye laws Indemnity against liabilities:**

- a. The bidder shall comply with all bylaws and regulations of the local and statutory authorities having jurisdiction over the works and shall be responsible for payment of all fees and other charges and giving and receiving all necessary notices and keep the Engineer –in-charge informed about the notices issued and received.
- b. The bidder shall indemnify the department against all claims in respect of patent rights design, trademark or name of other protected rights in respect of any plant, machine, work or materials used for or in connection with the works or temporary works and from and against all claims demands, proceedings, costs, charges and expenses whatsoever in respect of or in relation thereto.
- c. The bidder shall defend all actions arising from such claims and shall himself pay all royalties, License fees, damages, costs and charges of all and every sort that may be legally incurred in respect hereof shall be borne by the bidder.
- d. All liabilities / penal recoveries on matters arising out of tax /levies such as incorrect deductions, discrepancies in the filing of returns, revised assessments by the concerned authorities etc., shall be borne by the bidder.

**15. Termination of contract on death of contractor :**

Without prejudice of 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.

**16. Indulging of contractor in criminal /antisocial 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 /GST/ Central Excise/Custom Departments recommend such a course - Action will be taken as per the directions of CBI or concerned department.

17. As a general notion, the terms and conditions/instructions contained in various pages of this document are addressed assuming the bidder as 'Male'. However, the same shall remain and assumed to be addressed in case of 'Female' bidder also, except for the gender centric words, which shall be 'female' centric at appropriate places.

**FORM 'A'**

**Undertaking to abide by EW 6 & EW 8**

"I.....Son/Daughter 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 BSNL EW 6 & 8 forms.

(Seal of the firm)

(Signature of Bidder)

**FORM 'B'**

**Undertaking regarding EPF provisions**

"I..... Son/daughter 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 are 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)

**Undertaking regarding ESI provisions**

"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 are 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)

(Signature of Bidder)

**FORM 'C'**

**Performance report of works**

1. Name of Agency
2. Name of work
3. Agreement no.
4. Final Value of Work Done
5. Date of start of work
6. Actual date of completion
7. Performance: Satisfactory / Not Satisfactory

Dated:

Executive Engineer or Equivalent

**FORM 'D'**

**No Near relative working certificate**

I..... Son /daughter of Shri/ Smt.....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)

**Annexure I**  
**MODEL FORM OF BANK GUARANTEE FOR EMD**  
**(For submitting EMD for Air Conditioning, Diesel Engine Alternator, Lifts, and Sub Station Works wherever the amount of EMD is more than Rs.20,000/-)**

Whereas \_\_\_\_\_ (hereinafter called "the bidder(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 Bidder(s) withdraws its Tender during the period of Tender validity specified on the Tender Form: or
2. If the Bidder(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:**

**ANNEXURE II**  
**PERFORMANCE SECURITY GUARANTEE BOND**

In consideration of the CMD, BSNL (hereinafter called 'BSNL') having agreed to exempt \_\_\_\_\_ (hereinafter called 'the said bidder(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 fulfilment by the said bidder (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 \_\_\_\_\_ (bidder(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 Bidder(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 demur, merely on a demand from the BSNL by reason of breach by the said bidder(s)' of any of the terms or conditions contained in the said Agreement or by reason of the bidders(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 bidder(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 bidder(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/BSNL) BSNL certifies that the terms and conditions of the said Agreement have been fully or properly carried out by the said bidder(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 TWO/TWO AND HALF/THREE YEARS (as specified in P.O) from the date hereof, we shall be discharged from all liabilities under this guarantee thereafter.

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

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Bidder(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 \_\_\_\_\_ (indicate the name of bank)

Name of work: SITC of 6Nos 30 KVA Engine Alternator set with acoustic enclosure for Various RSUs under Chennai Telephones District, Chennai.

**SCHEDULE OF WORK**

| Name of work :-SITC of 6Nos 30 KVA Engine Alternator set with acoustic enclosure for Various RSUs under Chennai Telephones District, Chennai |   |          |      |                             |        |                     |        |                     |        |                     |                                   |   |                                  |                |
|--|---|----------|------|-----------------------------|--------|---------------------|--------|---------------------|--------|---------------------|-----------------------------------|---|----------------------------------|----------------|
| Sl. No   | Description of Item   | Quantity | Unit | Rate per unit excluding GST | CGST   |                     | SGST   |                     | IGST   |                     | Rate per unit including GST (Rs.) | Total Amount excluding GST (Net cost) (Rs.) | Total Amount including GST (Rs.) | HSN / SAC code |
|  |   |          |      |                             | % Rate | Rate per unit (Rs.) | % Rate | Rate per unit (Rs.) | % Rate | Rate per unit (Rs.) |                                   |   |                                  |                |
| 1  | 2   | 3        | 4    | 5                           | 6      | 7 = 6 x 5           | 8      | 9 = 8 x 5           | 10     | 11 = 10 x 5         | 12 = 5 + (7+9) or (11)            | 13 = 3 x 5                                  | 14 = 3 x 12                      | 15             |
| 1  | Supply of Multi cylinder Electric start/close coupled ready to use (RTU) type, diesel EA set in an acoustic enclosure conforming to the latest CPCB Norms along with manual control panel capable of generating three phase, 415 V, 50 HZ, full load capacity of 30KVA / 24 KW at site conditions with diesel engine of 1500 RPM complete with all accessories as required as per attached specifications.<br>1) The make of Engine/Alternator shall be BSNL approved as per product list attached. | 6        | Jobs |                             |        | 0.00                |        | 0.00                |        | 0.00                | 0.00                              | 0.00  | 0.00                             |                |
|  |   |          |      |                             |        |                     |        |                     |        |                     |                                   |   |                                  |                |

UNPRICED SCHEDULE



|   |  |   |      |  |      |      |      |      |      |      |      |      |      |             |      |      |
|---|--|---|------|--|------|------|------|------|------|------|------|------|------|-------------|------|------|
| 2   | <p>Installation, testing and commissioning of the above E/A set with acoustic enclosure and manual control panel (Item no.1 ) with all equipments, accessories and associated items on the existing cement concrete floor / foundation including supplying consumables like lub oil, fuel and providing artificial resistive load with cabling, switching arrangements. etc. for pre acceptance testing (i.e., 2 hours full load, 1 hour 10% overload and 1 hour at no load) and final Acceptance Testing of E/A set (i.e.running of E/A set on full load for 6 hours and running on 10% overload for 1 hour) including topping up of lub. oil upto full mark and filling of extra fuel up to a level suitable for 2 hours full load working etc. as per specifications as required.<br/>                 Note: Minor civil works such as cutting of floor or breaking of wall for laying of fuel pipes / making supports to exhaust pipes shall be within the scope of the contractor without any extra cost.</p> | 6 | Jobs |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 | 0.00 |
| <b>Grand Total Amount Excluding GST (Net Cost): Rs.</b> |  |   |      |  |      |      |      |      |      |      |      |      |      | <b>0.00</b> |      |      |

UNPRICED SCHEDULE

Name of work: SITC of 6Nos 30 KVA Engine Alternator set with acoustic enclosure for Various RSUs under Chennai Telephones District, Chennai.

|  |             |
|--|-------------|
| <b>Grand Total Amount Including GST: Rs.</b> | <b>0.00</b> |
|--|-------------|

**IMPORTANT NOTE:**

|    |  |
|----|--|
| 1  | The firm shall be responsible to ensure that GST shown in the above columns is correct & Input Tax Credit for the amount shown above is admissible as per GST Act as amended up to date.                       |
| 2  | Tax Invoice / Bill of supply should be pre-printed with all the details as per the requirement under GST Act.  |
| 3  | The evaluation and comparison of responsive bids shall be done on the basis of Net cost to BSNL on the prices offered inclusive of packing, forwarding, freight and insurance charges etc., but excluding GST. |
| 4  | The rates for all items of work shall, unless clearly specified otherwise, include cost of all labour, materials and other inputs involved in the execution of the terms as specified in the scope of work.    |
| 5  | No advance payments can be made. Stipulations like levy of interest if payment is not made in a specified time are also not acceptable and the payment is governed by the normal BSNL practice.                |
| 6  | Bidder must mandatorily quote for all GST components (CGST, SGST, IGST) as applicable.   |
| 7  | Bidder must mandatorily mention correct HSN / SAC codes.   |
| 8  | If any levy / duty is not payable or documentary proof is not produced, the amount for the same shall be deducted.   |
| 9  | The agency shall submit the copy of following for the genset(s) along with the tender<br>(a) Type approval Certificate issued by the designated agencies   |
| 10 | Data sheet of engine Alternator is to be filled and submitted along with tender  |

Contractor

Executive Engineer(E)

**DATA – SHEET**

| <b>FOR 30KVA ENGINE ALTERNATOR SET</b>   |  |                                   |            |                          |
|--|--|-----------------------------------|------------|--------------------------|
| <b>ITEM NO. (1)</b>  |  |                                   |            |                          |
| <b>A.</b>  | <b>Engine with standard scope of supply (1500 RPM)</b>   |                                   |            |                          |
|  | <b>Make (Only BSNL approved makes)</b>   | <b>Model</b>                      | <b>BHP</b> | <b>OFFERED BY AGENCY</b> |
|  | a)   | Ashok Leyland                     |            |                          |
|  | b)   | Cummins Ltd                       |            |                          |
|  | c)   | Cater pillar                      |            |                          |
|  | d)   | Kirloskar Oil Engine Limited      |            |                          |
|  | e)   | Volvo Penta                       |            |                          |
|  | f)   | Mahindra & Mahindra (upto 200KVA) |            |                          |
|  | g)   | Escorts (upto 30KVA)              |            |                          |
|  | h)   | Eicher (upto 35KVA)               |            |                          |
|  | i)   | Any other BSNL approved Make      |            |                          |
| <b>Note : For the above item No. 1(A), the make mentioned above and any subsequent approval by the Corporate office of BSNL for 30KVA at site condition till the last date of sale of tender shall be accepted. If approval for the above model is not available on date of tender opening, the same model will not be accepted.</b> |  |                                   |            |                          |
| <b>B.</b>  | <b>ALTERNATOR</b>  |                                   |            | <b>OFFERED BY AGENCY</b> |
|  | Alternator (Suitable for 30KVA) approved by BSNL till the last date of sale of tender may be supplied. |                                   |            |                          |

**NOTE: 1) Firm should check and satisfy above data and ensure for satisfactory performance under given load conditions.**

**2) Earthing, PCC foundation shall be provided by the BSNL.**

## **SPECIFICATION FOR ENGINE ALTERNATOR SET WITH ACOUSTIC ENCLOSURE**

**1.SCOPE:** The offer should cover complete supply, installation, testing, and commissioning of ready to use diesel engine alternator sets in acoustic enclosure. All minor civil works, electrical and other works associated with installation and commissioning of the set shall be carried out by the tenderer. The tenderer would quote for complete lot to be executed under works contract.

**2.REQUIREMENT:** The Engine Alternator supplied should be of ready-to-use type (RTU), the BHP of engine may be suitably enhanced as per site conditions in order to deliver the minimum required KVA at site, in case of water cooled engine it should be supplied with first filling of coolant and water mixture as per the manufacturer recommendation. The Engine shall be equipped with all standard fittings, flexible pipe, **suitable capacity** of low maintenance lead acid battery for automotive / cranking duty fixed between base frame as per manufacturer's recommendation, one fuel tank of **minimum 120 litres** inside canopy with fuel pipe, silencer, MS exhaust pipe of suitable size and length as per original manufacturer's standard, instrument panel equipped with necessary instruments, directly coupled with alternator of suitable capacity on a suitable length of common base frame, channel fixed on necessary AVM pads required length of suitable size of copper conductor cable with glands and lugs for inter connection between alternator and control panel, providing tools for normal maintenance and all other accessories complete as required and as per detailed specifications attached. The Engine and the Enclosure shall conform to the Environment (Protection) Act 1986 (29 of 1986), and Environment (Protection) Rules, 1986, latest as amended from time to time, of Ministry of Environment and forest, and the agency shall provide all the relevant certification (including, but not exclusively, certificate of adhering to latest applicable noise limit; and certificate for type approval and COP (Conformity of Production) as per the latest applicable emission norms) to establish conformance of the DG Set as required by this act, and these rules, latest as amended from time to time. The make and model no. of Engine and alternator shall be as per BSNL approved product directory. The battery shall be fixed between the base frame on a suitable angle iron frame / MS sheet including providing suitable rubber pads below the battery.

### **3. OPERATING CONDITIONS**

The engine alternator shall be capable of working at any ambient temperature between 0°C to 50°C and relative humidity up to 95% condition. However for calculation of the capacity these operating conditions will not apply. For calculation of the capacity, the condition shall be of Chennai Telephones District /Tamilnadu sites.

### **4. PERFORMANCEREQUIREMENT**

- The working KVA rating at site condition after accounting for de-rating shall be obtained at 0.8 power factor.
- When there is an electrical main supply failure it will be required to work continuously for a period which may even exceed 24hour at a time.
- The set shall be capable of taking 10% overload for a period of one hour during every 12hours period while operating continuously at full load.
- The set may be idle for a long period except for routine test periodically.

**5. OUT PUT VOLTAGE FREQUENCY AND WAVE FORM**

Nominal output voltage shall be 415Volt with  $\pm 5\%$  manual adjustment at all conditions of the load. Frequency shall be 50 cycle per second  $\pm 3\%$  in output waveform.

**6. DIESEL ENGINE**

Engine shall be multi cylinder; reciprocating compression ignition engine as per manufacturer standard design and conforming to relevant IS specifications. **The emission limits for diesel engine up to 800 kW generator set shall be as per the new emission norms released by the Ministry of Environment and forest notification with effect from 1st July , 2014 and amended up to date.**

**7. LUBRICATION**

Lubrication shall be positive pressure type lubricating all moving parts. No moving parts shall require lubrication by hand either prior to the starting of the engine or while it is in operation. Lubrication oil shall conform to relevant IS amended up to date. Necessary lubricating oil filter shall be provided for operation at normal conditions for a period of 250 hours. **Lub.oil sump shall be topped up to full level after successful completion of the acceptance testing.**

**8. FUEL TANK**

Fuel tank with capacity of minimum 120 litres inside the canopy of E/A set, made up of minimum 2mm thickness MS sheet, shall be suitably installed inside the canopy and connected to the Engine through steel wire braided fuel pipe line for easy maintenance. The tank shall have a pipe level indicators marked in liters, filling inlet with removable screen, fuel out let located at minimum of 25mm above the bottom, drain plug, air vent and necessary piping, hand fuel pump etc. The outlet of the hand fuel pump supplied shall be provided with 3- meter long reinforced hosepipe.

**9. FUEL PIPING**

Braided pipe with hydraulically compressed banjo of superior quality shall be provided for fuel piping.

**10. SPEED AND GOVERNING**

The engine shall operate on 1500 RPM, and be able to meet site conditions with regard to Voltage, Speed, Frequency and regulation and shall be equipped with governor suitably to give the desired output.

**11. ENGINE START**

Engine shall be cold and self-starting type. The starter battery shall have suitable copper connecting lead, sufficient to meet engine starting and control gear requirement as per manufacturer specification.

## **12. BATTERY CHARGING**

The battery charging shall be done through alternator in running condition and through battery charger when EA set is in off condition. The changeover from battery charger to alternator and vice-versa shall be automatic. The solid state battery charger provided in Auto Mains Fail Control Panel.

## **13. The Engine shall have following accessories: -(as per manufacturer standards)**

- (i) Fly wheel.
- (ii) Coupling with guard.
- (iii) Fuel Pump suitable for lifting the fuel from fuel tank provided below E/A sets.
- (iv) Governor.
- (v) Pre filter.
- (vi) Fuel Filter.
- (vii) Lubricating oil filter.
- (viii) Residential exhaust silencer.
- (ix) Starter.
- (x) Radiator with Blower fan (in case of water cooled engine)
- (xi) Battery charging Alternator.
- (xii) Mechanical / Electronic type hour meter cum RPM indicator. (or As per Engine manufacturer standards)

## **14. ENGINE INSTRUMENT PANEL:-**

It shall comprise of the following: -

- (i) Starting switch with key.
- (ii) Lubricating oil temperature gauge for air cooled engine and water temp gauge for water cooled engines
- (iii) Lubricating oil pressure gauge.
- (iv) Emergency STOP push button

The above items are indicative only. Also acceptable as per Engine manufacturer standards.

## **15. ALTERNATOR**

- a) The alternator shall be copper wound and totally enclosed for screen protected class-F/H insulation, designed and constructed to with stand tropical condition. Voltage regulation shall be  $\pm 1\%$ . And shall be conforming to relevant IS specifications
- b) The winding shall be star connected and neutral shall be brought out to the terminal box for earth with two independent earths. The terminal of the alternator output shall be enclosed in the terminal box. The AC/DC wiring shall be separated from each other.

## **16.MANUAL CONTROL PANEL:**

Control panel shall be cubical type made of 16 gauge (1.6 mm) CRCA sheet with hinged type openable covers mounted above base frame at suitable location of E/A set and supported on both sides on base frame. Rubber pads of 6mm. thickness shall be provided between the base frame and control panel supports. HRC Fuses for instruments and control circuit shall be provided. The

control wiring shall be done with not less than 1.5 Sq mm Copper conductor cable. Panel shall have sufficient working space and the terminals shall be easily accessible for making connections of cables etc. Necessary Cable gland plates for incoming and outgoing cable and a tinned copper earth stud of adequate dimension shall be provided. The panel shall be consisting of: -

- (i) Starting switch with key / Starting Push button
- (ii) Lubricating oil temperature display for air cooled engine and water temperature display for water cooled engines (Shall be Visible from outside of canopy)
- (iii) Lubricating oil pressure display (Shall be Visible from outside of canopy)
- (iv) Battery Voltage display
- (v) Emergency stop Push Button
- (vi) 1No. **4 pole 63A MCCB** (with adjustable release range of current) with under voltage release.
- (vii) 1 No composite meter for digital display of voltage, Current, Power Factor, Frequency & KWH.
- (viii) Push buttons for stop, reset, test, and acknowledge – functional requirement should be met.
- (ix) Recess type hooter.
- (x) Visual Indication for DG "ON" / Load "ON".
- (xi) Audiovisual indication for LLOP, HCT / HWT, Over speed, Low fuel.
- (xii) RYB LED Indication for indicating EA Set supply with protection fuses – 1 Set
- (xiii) DC Ammeter [0-15A] and DC Voltmeter [0-30V] for battery charger
- (xiv) Battery Charger: Automatic trickle / boost battery charger of SCR or SMPS type to charge the starting battery of DG set. This charging shall be done through main supply for which a suitable incomer shall be provided in the panel with protective fuses.
- (xv) AC and DC wiring shall be separated distinctly.
- (xvi) Connections of control wiring shall be done with suitable connector strips and ferrules for identification on both ends.

## **17. SAFETY CONTROL TRIP**

- (i) Low lubricating oil pressure.
  - (ii) High water temp.
  - (iii) Over speed.
- (or all the above as per manufacturer standards)

## **18. SOUND PROOF ENCLOSURE**

The canopy should be sound proof, weather proof & environment friendly. The Engine and the Enclosure shall conform to the Environment (Protection) Act 1986 (29 of 1986), and Environment (Protection) Rules, 1986, latest as amended from time to time, of Ministry of Environment and forest, and the agency shall provide all the relevant certification (including, but not exclusively, certificate of adhering to latest applicable noise limit; and certificate for type approval and COP (Conformity of Production) as per the latest applicable emission norms) to establish conformance of the DG Set as required by this act, and these rules, latest as amended from time to time. ,

- (i) The canopy shall be of modular construction with the provision of assembly at site. The acoustic panels shall be fabricated by not less than 1.6 mm thick CRCA sheet.

The finished sheet metal component shall undergo seven tank treatment process for degreasing, derusting, phosphatising etc. for longer life and should Polly polyester based coated inside & outside. The nuts bolts and other hardware shall be Zinc coated. The door shall be provided with high quality EPDM gaskets to avoid leakage of sound. The door handles and hinges shall be Zinc plated & lockable type.

- (ii) The Radiator fan of the water cooled Engine shall be used for ventilation. A pusher fan (for air cooled Engines) or in addition to Radiator fan, if required shall also be provided. The motor of this fan shall be of BSNL approved make.
- (iii) Temperature rise inside the enclosure should not be more than 5°C for maximum ambient above 40°C and it should be below 10°C for ambient below 40°C.  
Adequate ventilation shall be provided to meet the air requirement for combustion & also to expel heat to maintain temperature inside the enclosure within aforementioned limit seven at 10% overload with tripping arrangement between (50 – 60) degree Celsius.
- (iv) Lighting inside the canopy shall be provided with minimum 2 nos.1 x 11 W CFL fitting including lamp. 5 Amps switch & socket outlet for connecting battery charger inside the enclosure shall be provided. The lighting and 5 Amps socket shall be powered from the control panel by suitable wiring / cabling arrangement.
- (v) Separate door with locking arrangement for easy access to D.G. set during operation & maintenance should be provided.
- (vi) Small see through window for reading meters etc. made of transparent polymer sheet of thickness not less than 5mm shall be provided.
- (vii) Radiator bellows/sealing arrangement to be provided in cases of water cooled engines to avoid hot air leakage inside canopy.
- (viii) Fuel Tank and Control Panel shall be incorporated inside the canopy.  
All fuel piping connections, electrical connections etc. shall be done as per standards.
- (ix) Four point lifting arrangement.
- (x) Main base frame size and thickness of MS sheet welded for bolting arrangement will be as per manufacturer's recommendation complete as required.
- (xi) The bottom portion of the canopy shall be covered with 2mm thick MS plate i/c welding, painting etc complete around foundation as required.
- (xii) Insulation on enclosure will be provided & fixed of: Mineral / rock wool Slabs of density not less than 96 kg/M<sup>3</sup> of 75mm thickness, covered with 22 gauge GI sheet having 3mm perforation fitted with strips of AL by hydraulic riveting to support the whole insulation rigidly complete as required. (OR) Polyurethane foam / PUF of minimum 26Kg / m<sup>3</sup> density acoustic foam of dark grey / black colour, fire retardant and not less than 20 mm thickness.
- (xiii) The canopy shall be provided with emergency stop button easily approachable from outside.
- (xiv) The canopy shall be provided with following meters (visible from outside): -
  - (a) Lub. Oil pressure gauge. (When part of controller of engine, not reqd.)



- (b) Water temperature gauge (for water cooled engines only).(when part of controller of engine, not reqd.)
- (xv) Fuel gauge with sensing arrangement. (or as per manufacturer standards)
- (xvi) The enclosure shall be guaranteed for a period of 12 months from the date of completion of work against defective materials & rust, welding, painting, smooth functioning of doors; inspection window etc. minor civil work is to be carried out without any extra cost.

## **19. GENERAL REQUIREMENT**

The set shall have minimum vibration and noise under all conditions of load. The set shall be properly dynamically balanced. Anti-vibration mounting shall be provided for supporting the set.

- (i) The set shall be fitted with radio interference suppressers in case of slip ring type alternator.
- (ii) The size of EA Set base frame channels shall be as per manufacturer's recommendations.
- (iii) Control wiring shall be done with not less than 1 Sq.mm multi strand PVC insulated copper conductor cable.
- (iv) Earthing provision should be made for earthing all current carrying metal parts of the equipment. Earth lugs of suitable size shall be provided.
- (v) All the exposed moving parts like coupling etc. shall be provided with suitable guards covering.
- (vi) All exposed metal parts shall be suitably finished to prohibit corrosion.
- (vii) All the important and major parts should bear their catalogue number make of the parts etc. All the control wiring shall be provided with letter number ferules at both ends. Three sets of manual giving the details about design, specifications, special features of the equipment schematic and wiring diagram instructions regarding installation and maintenance etc. should be supplied. A laminated control wiring diagram should be pasted inside the control panel.

### viii) OVERLOAD

The set shall be capable of taking 10% overload for a period of one hour during every 12 hours period while operating continuously at full rated load. In case of marginal deficit in overloading, allowable up to maximum of 5% load). Pro Rata recovery based on originally declared KVA rating shall be levied.

## **20. TESTING AND A/T**

The firm shall test the set itself as per the BSNL schedule and practice before offering for acceptance test by B.S.N.L. All the relevant tests to check the performance of the set shall be conducted (A/T) by T&D Circle at site after installation as per the decision of the Engineer-in-charge. Diesel and lubricant oil shall be supplied by the contractor for 8 hours successful Acceptance testing of the set. The necessary artificial load and any other necessary manpower material consumables etc. will be provided free of cost by the contractor at the time of testing/A/T.

- (i) Initial testing for 2 hours at full load, one hour at 10% overload and one hour at no load prior to fixing up of regular A/T.
- (ii) A/T in presence of representative of T&D circle as per A/T Schedule ie. For 6 Hours on full load and One hour on 10% over load.
- (iii) Resistive load, Fuel and lube oil for testing shall be arranged by the firm without any extra cost. The test shall be with artificial resistive load only and non-linear load will not be arranged for A/T purpose. Lub.oil sump shall be topped up to full level after successful completion of the acceptance testing. Extra fuel sufficient for the operation of the set on full load for 2 hours shall be left in the fuel tank after the successful completion of the Acceptance testing.

Nothing extra will be paid for the subsequent A/Ts in case of failure of first A/T.

#### **20.1 INSULATION TEST:**

Immediately after the load test, the insulation resistance between stationary coil and the frame is tested with 500 Volts megger.

#### **20.2 ACCURACY OF METERS**

The accuracy of meters shall confirm to relevant IS.

#### **20.3 FUNCTIONAL TEST:**

Performance of incoming switch/circuit breaker, starting arrangement for the engine, safety features, instruments and control panel etc shall be verified. The battery shall be tested as per the general method.

#### **20.4. Completion Reports:**

The contractor after successful installation, testing and commissioning of the Engine Alternator sets including all the accessories like Manual control panel, shall submit a self-certification to the BSNL that the work has been completed successfully as per specifications drawings and other terms and conditions of the agreement and tender document.

The following details should be submitted along with the above certificate.

#### **20.5 Self Certification details of Engine Alternator**

- a. Rated capacity of Engine Alternator
- b. Make of Engine/Alternator
- c. Serial number of Engine/Alternator
- d. Year of Manufacture
- e. Supplied by:
- f. Proof of purchase(Invoice/Bill)
- g. Details of other components provided
- h. Testing and commissioning report
- i. Date of commissioning.

**21. GUARANTEE ETC:**

- I. The entire installation system shall be guaranteed against any inherent defect of faulty workmanship and for its perfect functioning for a period of **one year** from the date of successful AT of entire system.
- II. Free services as per manufacturer's standard practice and norms will be provided free of cost.
- III. The contractor shall impart training to the operator deputed by the department for operation and attending the minor fault free of cost.
- IV. **All work will be executed as per the latest CPWD (Internal / External) specification, relevant IE rules.**

## **SPECIAL CONDITIONS OF CONTRACT**

**[In case of any difference between any clause of any section of NIT and that of the "special conditions of contract," then the "special conditions of contract" shall prevail]**

Please note that the offers, which do not comply with the following, will not be considered and will be totally rejected. These instructions supersede the BSNL / EW6 and EW 8 clauses, or any other clauses/conditions appearing elsewhere in the tender, 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 contract basis. The rates shall be firm and final.
3. The price shall be firm and fixed during the currency of the contract. No cost escalation is permitted. Clause10CC is not applicable.
4. The Extension of time for completion of the works is governed by clause 2 of EW8.
5. No advance payments can be made. The payment is governed by the normal department practice and stipulations like levy of interest if payment is not made in a specified time are not acceptable.
6. The firm should deposit EMD before submission of their offer. The EMD of other works returnable to them cannot be adjusted against this work. The firm's offer shall be liable for rejection without fresh EMD for this particular work.

### **2) TERMS OF PAYMENT:**

**Payment to the Contractors is regulated as below:**

**For Supply items (i.e. Part A):**

Manufacturer's test certificates for E/A, gate pass/invoice with details of GST shall be produced by the firms at the time of supply.

The Engine Alternator sets shall be procured through authorized EA / OEM Manufacturers. The set shall not have been manufactured more than one year before the date of supply.

a) 95% of the price shall be paid on the receipt of goods at site by the consignee. For claiming this payment the following documents are to be submitted to the paying authority:

- i) Gate pass/invoice or equivalent document
- ii) Delivery Challan
- iii) Consignee receipt

b) The balance 5% payment shall be released after satisfactory commissioning of equipment.

c) In cases where shortages/ damages are intimated to the supplier in writing, the balance payment shall be released only after the cases are settled in accordance with the provision of the P.O.

d) 100% payment (in place of 95%) may be made on delivery, provided that an additional Bank Guarantee for an amount equivalent to 5% of the value of supplies valid for a minimum period of one year is furnished by the supplier along with an undertaking that the shortages/ damages as are intimated to the supplier in writing shall be made good.

e) 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.

For ITC items (I.e. Part B):

The payment terms will be as under:

(i) 50% on Installation & Trial Testing

(ii) 50% on successful completion of acceptance testing.

3. Work Distribution: It is proposed to split the work amongst the first two lowest firms. The proportion of work distribution shall be as follows:

i) 70% to the first lowest tenderer.

ii) 30% to the second lowest tenderer

In case the second lowest tenderer does not agree to match the rates of L1, then 100% works shall be awarded to the first lowest tenderer.

4. Currency of Contract:

a) The contract shall be valid for issue of L.O.I for 6 months after the date of award and also be extendable by mutual consent for a further period of 3 months.

b) Letter of intent for work(s) will be issued by the SE (E), EC-II, BSNL Chennai Telephones in consultation with CE (E). Time for completion shall be two month from the date of issue of award letter for individual work.

c) The rates incorporated in the Rate Contract in respect of different items shall be uniformly applicable to all works within Chennai telephones area, comprising of Chennai , Chengalpattu, Tiruvallur, Kancheepuram districts. However BSNL reserves the right to order for quantities for in other than Chennai Telephones area, within Tamilnadu & Pondichery geographical locations.

d. Operation of the Rate Contract is for bonafide BSNL use only and is further restricted to only such works as authorized by the SE (E), Chennai Telephones, BSNL Chennai through the D.D.O. nominated by the Superintending Engineer (E), Chennai Telephones , BSNL, Chennai during the currency of the Rate Contract.

#### 5. OPERATION OF RATE CONTRACT

(a) The operation of this Rate Contract shall be governed by the General Rules and conditions of the Contract.

(b) Operation of Rate Contract shall be further governed by the following:

i. The master agreement shall be signed between the firm & Superintending Engineer (E) BSNL Electrical Circle-II, Chennai.

ii Individual Letter of Intent (LOI) shall be issued by the Superintending Engineer (E) BSNL Electrical Circle-II, Chennai to the firm giving all details.

iii. The rate contract shall remain in force for a period of 6 months initially and another 3 months on mutual acceptance for issue of LOI from the date of award.

iv. A schedule of work indicating quantities of various items of works shall be supplied by Superintending. Engineer (E) in respect of individual work to the concerned Executive Engineer (E).

v. Formal work contract agreement will be made between the Executive Engineer (E) & the firm on the basis of specimen agreement & the schedule of work supplied by the Superintending Engineer (E). The date of commencement of individual works shall be reckoned from the date of award.

C. No work shall be undertaken without proper Letter of Intent as per (2) above and Completion of agreement formality as per (5) above.

## **6.0 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 order up to 50% of the quantities of goods and services contained in the running tender/contract within the currency of contract at the same rate.

## **7.0 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.

## **8.0 PROGRAMMES FOR EXECUTION**

The firm shall supply detailed programme to Engineer in charge for execution of contract within 15 days of award of work. The programme shall contain the details about submission of drawing, supply of materials including E/A set, Control panel, Cables etc., The tentative dates for installation, testing, commissioning and A/T of E/A set shall also be submitted.

## **9.0 PACKING FORWARDING AND STORING AT SITE:**

Before dispatch to site, the equipment/component /materials shall be properly packed with polythene sheet and wooden planks for protection and avoiding transit damages and damage against storage in open area at transporters premises or at work site.

## **10.0 Coordination at site:**

At the site of work, as more than one agency may be working, full cooperation shall be extended to other agencies during progress of work. Further, work shall be carried in such a way so that it may not cause abnormal noise and hindrance to the officers of the department engaged in erection as well as doing normal routine work.

## **11.0 STORES AND SAFETY :**

a) The contractor from his own sources shall arrange all the stores and materials required for the satisfactory completion of all the work at work site. Lockable space for storing the materials may be provided at the request of the contractor. However safe custody of materials stored at site shall be responsibility of the contractor.

b) The Executive Engineers shall liaison with the agency as to the timing of the supply of genset based on the site readiness.

c) If the E/A set is supplied to the actual site of work, installing on the foundation is covered in item 1, part B of the schedule of work. Hence no extra payment can be made for shifting on to the foundation as and when the same is ready.

## **12.0 STANDARD :**

The entire system shall conform to relevant BIS including safety standards as amended up to date. Where IS standards are not available British standards shall be given overriding 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.

## **13.0 Test Certificate**

The firm shall submit following test certificates on supply of the material at site:

- Manufacturer Original test certificates for Engine, Alternator, E/A set, control panel
- Routine test certificates for individual items.

#### **14.0 Inspection & Testing of EA set:**

14.1 The EA sets shall be tested at factory for routine /normal load before dispatch to site(s) and the necessary test certificate shall be furnished along with the EA set.

14.2 Factory Testing: The agency should offer proto type unit for inspection/testing at factory within 15 days from the date of award letter. The proto type approval is valid for a period of 12 months. However, in case of a proto type approval (issued not more than 12 months prior to the date of award of this tender) from BSNL for the same specification is available, the same shall be considered valid with regard to this tender also.

**14.3 Date of completion :** Date of successful initial testing [performance testing] of the system shall be taken as date of completion of the work. Formalities like grant of EOT, completion certificate etc. shall be initiated immediately after this date. However these shall be subjected to successful A/T.

#### **15. Completion Drawings:**

The firm shall supply three sets of Drawings / documents immediately after completion of the work as detailed below:

- ◆ Plan layout of the E/A set.
- ◆ Schematic diagram of control wiring.
- ◆ Operation and maintenance manual with
  - Maintenance recommendations & procedures.
  - Maintenance intervals.
  - Generator running hours.
  - Logbooks.

**16.** Any alteration to original specification shall be made after mutual discussion and agreement between Department and contractor. Any price implication in this regard shall be mutually discussed and agreed upon, in terms of clause 12 of BSNL EW-8. The Clause 10CC of BSNL EW-8 form is not applicable.

#### **17. MODIFICATIONS/ALTERATIONS:**

a.Modifications or alterations in the design/specifications of any equipment / material will not be permitted by the Department as a matter of principle.

b.However, the Department may relax the above stipulations in exceptional circumstances; where:

- i) The same is necessitated due to non-availability of material/component of certain specifications or make.

OR

- ii) Such alterations constitute an improvement in the opinion of the BSNL.

c) Prior written approval of the Department shall be obtained before execution of alterations / modifications.

d) The Department also reserves the right to enforce the curtailment in the assigned quantum of work for any contractor(s) on the following grounds:-

Default(s) in regard to works contract execution assigned.

**18.** The tender rates accepted by the Department shall be valid for operation for a period of SIX months from, the date of issue of acceptance letter. The currency of the contract shall also be extendable by mutual consent for the further period of three months.

\*\*\*\*\*

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 200 KVA) /Escorts (up to 30 KVA)/ Eicher (up to 35 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 )  | Biecco Lawrie / 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/ Meco / 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  |
| 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 / Kirloskar/ 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:**

- i. 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.
- ii. Any other makes which are approved by BSNL CO up to the last date of sale of tender can also be used in this contract.

Contractor

Executive Engineer(E)

**LIST OF RELEVANT INDIAN STANDARDS**

|                                   |                   |   |
|-----------------------------------|-------------------|---|
| IS 10000<br>(Naturally Aspirated) | Part-I 1980       | Method of tests for I.C. Engines Part-I Glossary of terms related of test method  |
|                                   | Part-II 1980      | Standard reference conditions   |
|                                   | Part-III 1980     | Measurements of testing units and limits of accuracy  |
|                                   | Part-IV 1980      | Declaration of Power, Efficiency, fuel consumption, lubrication oil consumption   |
|                                   | Part-V 1980       | Preparation of tests and measurement of wear  |
|                                   | Part-VI 1980      | Recording of test results   |
|                                   | Part-VII 1980     | Governing test for constant speed engines and selection of engines for use with electrical generators                                     |
|                                   | Part-VIII 1980    | Performance test  |
|                                   | Part-IX 1980      | Endurance test  |
|                                   | Part-X 1980       | Test for smoke level, limit and correction for smoke level for variable speed   |
|                                   | Part-XI 1980      | Information to be supplied by the purchaser to the manufacturer and information to be supplied by the manufacturer along with the engine. |
|                                   | Part-XII 1980     | Specimen test certificates  |
|                                   | Part-XIII 1980    | Recommendations on nature of tests required for functional changes in critical components   |
| IS 10002                          | Amended upto date | Performance Requirements for Constant Speed Compression Ignition (Diesel) Engines for General Purposes (Above 20 kW)                      |
| BS ISO 3046-1                     | Amended upto date | Reciprocating Internal combustion engines   |
| IS 4889/ BS 269                   |                   | For declaring efficiency of electrical machines   |
| IS 4722 - 1992                    |                   | Capability of machine to withstand over current / overload  |
| IS 13364                          | Part-I 1992       | Alternator –Voltage Regulation upto 20KVA   |
| IS 13364                          | Part-II 1992      | Alternator –Voltage Regulation above 20KVA to 80KVA   |
| IP 21                             | IS 4691/85        | Alternator (degree of Protection)   |
| IS 8183                           |                   | Insulation material for sound absorption  |
| IS 2147 1962                      |                   | Degree of Protection  |
| IS 4722                           |                   | H.V Testing for panel   |

Executive Engineer(E)

Contractor

| <b>PROFORMA OF SCHEDULES</b><br>(Operative Schedules to be supplied separately to each intending tenderer) |   |
|--|---|
| <u>SCHEDULE 'A'</u><br>Schedule of quantities :  | Attached  |
| <u>SCHEDULE 'B'</u><br>Schedule of materials to be issued to the bidder:                                   | Nil   |
| <u>SCHEDULE 'C'</u><br>Tools and plants to be hired to the bidder:   | Nil   |
| <u>SCHEDULE 'D'</u><br>Extra schedule for specific requirements/documents for the work, if any:            | Nil   |
| <u>SCHEDULE 'E'</u><br>Schedule of components of Materials, Labour etc. for escalation:                    | Nil   |
| <u>SCHEDULE 'F'</u><br>Reference to General Conditions of contract :                                       |   |
| Name of work:  | As per NIT notification page No 3                               |
| Estimated cost of work:  |   |
| Earnest money:   |   |
| Security Deposit and performance Guarantee   |   |
| General Rules & Directions: Officer inviting tender:   | Executive Engineer (E)<br>Electrical Division-I, Chennai        |
| Definitions:   |   |
| 2(v) Engineer-in-Charge  | Executive Engineer (E)<br>Electrical Division-I/III Chennai     |
| 2(vi) Accepting Authority  | Superintending Engineer (E), Chennai telephones                 |
| 2(x) Percentage on cost of materials and labour to cover all over heads and profits                        | 10% (TEN)   |
| <b>CLAUSE 5</b>  |   |
| Time allowed for execution   | 6 months for Rate Contract & two month for individual agreement |
| Authority to give fair and reasonable extension of time for completion of work:                            | SE(E),EC-II,Chennai   |
| Competent Authority for deciding reduced rates:  | SE(E),EC-II,Chennai   |
| <b>Clause 25</b>   |   |
| Competent authority for conciliation:  | SE (E) not in-charge of the work.                               |

**BSNL EW-8**  
**Bharat Sanchar Nigam Limited**  
**Electrical Wing**

**Electrical Division: I, Chennai**

**Sub Division:**

1. I/we have read and examined the notice inviting tender, schedule, specifications applicable, Drawings & Designs, General Rules and Directi
2. ons, 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.
3. 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.
4. 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.
5. 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 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.
6. 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.
7. I/we agree to furnish to BSNL, Deposit at Call receipt/FDR/ Bank guarantee of a Nationalized/ Scheduled Bank for an amount equal to 5% of the 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 as per the BSNL terms and conditions.
8. 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.

|  |  |
|--|--|
| <p>Signature of Witness (required in the case of bidder's thumb impression is given by the bidder in place of signature)<br/>Occupation of Witness :</p> | <p>(Signature of bidder )<br/>(Name &amp; Postal address)</p> <p>Seal of Bidder</p> <p>Date:</p> |
|--|--|

**Acceptance of Tender**

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 Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ )

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

- a)
- b)

For & on behalf of BSNL

Dated

Signature :  
Designation :