

# **BHARAT SANCHAR NIGAM LIMITED**

(A Govt of India Enterprise) (Electrical Wing)

# O/o The Executive Engineer (E) BSNL Electrical Division-III

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# **E-TENDER DOCUMENT**

**Name of work:** -Providing operation of Transformer Substation, Engine Alternator sets at TE Building, Haddows Road, Chennai. (For the year 2019-20)

NIT NO: 40 / EE (E) /ED-III /CH/2019-20

This tender document contains 43 pages (Forty three) pages only.

For E Tender Helpdesk Pls Contact M/s ITI LTD, Ph:91-80-40482000 &

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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-III, 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	Providing operation of Transformer Substation, Engine Alternator sets at TE Building, Haddows Road, Chennai. (For the year 2019-20)					
2	Estimated cost put to tender	stimated cost put to tender Rs.8,55,192/- Excluding GST					
3	Earnest Money	Rs.17,104/-					
4	Period of completion	Twelve months					
5	Last date & time for downloading of tender document by bidder	Up to 11:55 Hrs. on 09-08-2019					
6	Last date & time for online submission of tender	Up to 12:00 Hrs. on 09-08-2019					
7	Last date & time for submission of original EMD	Up to 12:00 Hrs. On 09-08-2019					
8	Date and time for opening of tender	12:30 Hrs. on 09-08-2019					
9	Tender cost (Non refundable)	Rs.500/- + GST 18%					
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 Service Tax					

#### **ELIGIBILITY CRITERIA**

The bidders satisfying the following conditions:

The Contractors satisfying the following conditions:

1.1 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** 

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

OR

1.3 Experience of having successfully completed similar works in BSNL comprising of either substation or air conditioning service as part of scope of work 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.

NOTE: Similar work Means "Operation and maintenance of substation"

#### **IMPORTANT NOTE:**

- 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.
  - d. Documents fulfilling Eligibility criteria.
  - e. Enlistment certificate issued by BSNL (for BSNL enlisted contractors)
  - f. Electrical license issued by TN Govt.
  - g. GST Registration certificate.
  - 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')
  - I. 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 and EMD, shall be deposited in the tender box available in the office of tender opening authority, by all the bidders before 12:00 NOON 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-III, Chennai** Sub Division: **II, Chennai** 

- 1. Item rate tenders on single bid system are invited on behalf of CMD, BSNL for the work "Providing operation of Transformer Substation, Engine Alternator sets at TE Building, Haddows Road, Chennai. (For the year 2019-20)." 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. 8,55,192**/- **Excluding GST.** This estimate, however, is given merely as a rough guide.
- 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 time allowed for carrying out the work will be **Twelve** month 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 <a href="https://www.tenderwizard.com/BSNL">www.tenderwizard.com/BSNL</a> at free of cost. The BSNL EW-8 document can be seen from the web site <a href="https://www.chennai.bsnl.co.in">www.chennai.bsnl.co.in</a> 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 reenter 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)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 **09.08.2019** up to **12:00 NOON** and the bid submitted shall be opened at **12:30 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/AOC 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.**
- 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 noncomplying 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 of
Resident of	
the clauses and sub clauses of B	I have read the complete bid document and I am aware of a SNL EW 6 $\&$ 8 forms and I confirm that I will abide by all the original standard BSNL EW 6 $\&$ 8 forms.
(Seal of the firm)	(Signature of Bidder)

#### FORM 'B'

# **Undertaking regarding EPF provisions**

	on of
Resident of undertaking that	hereby give an
* I/We have employed only Miscellaneous provisions Act, 1952 is no	persons in our establishment and hence the EPF and ot applicable to my / our establishment.
	EPF and Miscellaneous provisions Act, 1952 and our ertake to keep it valid during the currency of contract.
• • • • • • • • • • • • • • • • • • • •	d that the information given by me is false / incorrect, ke any action as deemed fit/without any prior intimation
* strike out whichever is not applicable	
**Attach a self-attested photo copy of th	ne above said EPF registration certificate.
(Seal of the firm)	(Signature of Bidder)
,	g regarding ESI provisions
"I So	on of
"ISo Resident of	
"IResident of So an undertaking that * I/We have employed only	on of hereby give persons in our establishment and hence the ESI and
"IResident of an undertaking that  * I/We have employed only Miscellaneous provisions Act,1948 is not  * I/ We have registered as per the	on of hereby give persons in our establishment and hence the ESI and
"IResident of  * I/We have employed only Miscellaneous provisions Act,1948 is not  * I/ We have registered as per the registration no is We under	on of
"IResident of  * I/We have employed only Miscellaneous provisions Act,1948 is not  * I/ We have registered as per the registration no is We under the series at any stage, it is found to the series at any stage, it is found to the series at any stage.	on of
"IResident of  * I/We have employed only Miscellaneous provisions Act,1948 is not  * I/ We have registered as per the registration no is We under the series at any stage, it is found to me".  * strike out whichever is not applicable	on of

### FORM 'C'

# Performance report of works

1.	Name of work	
2.	Agreement no.	
3.	Final Value of Work Done	
4.	Date of start	
5.	Actual date of completion	
6.	Performance: Satisfactory / Not Satisfactory	
	Datada	Evecutive Engineer or Equivalent
	Dated:	Executive Engineer or Equivalent
	No Near relative work	FORM 'D'
hereby in BSI inform	Son of Shri	ed in the tender document is/are employed t. In case at any stage, it is found that the
	(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 datedfor the v	vork				
				KNOW	ALL
MEN by these presents that WE					OF
having our regi	stered office	at			
(hereinafter called "the Bank") are bound u	nto			(hereina	after
called "the BSNL") in the sum of	for v	which pa	ayment	will and tru	ly to
be made of the said BSNL, the Bank binds presents.	itself, its su	ccessors	and a	assigns by tl	nese

#### 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
between and for the supply of (hereinafter called "the said agreement"), of security deposit for the due
fulfillment by the said bidder (s) of the terms and conditions contained in the said Agreement, on
production of the bank guarantee forwe, (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 under take 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.
currency except with the previous consent of the BSNL in writing.
Dated the day of
for (indicate the name of bank)

# **Schedule of Quantities**

NAM	AME OF WORK:- Providing operation of Transformer Substation, Engine Alternator sets at TE Building, Haddows Road, Chennai. (For the year 2019-20)													
S. N	Description of Items	Qty	Unit	Rate / excluding GST	CG % Rate	ST Rate per unit	SGST % Rate	Rate per unit	IGST % Rate	Rate per unit	Rate /unit includi ng GST	Total Amount excluding GST	Total Amount including GST	HSN/ SAC Code
1	2	3	4	5	6	7=6x5	8	9=8x 5	10	11=10 x5	12=5+( 7+9)or 11	13=3x5	14=3x12	15
1)	Providing round the clock operation of the following installations in TE Haddows Road by deploying required manpower as per specifications & carrying out scheduled activities for smooth operation of the installation on all working days, including all holidays and by arranging required tools and plants etc to keep all services operational i/c maintaining records etc required up to standards complete as per specification attached.  a) 3 x 630 KVA Substation b)2 x 1250KVA DG sets and 1 x 500 KVA DG set		Month		U	JPR'	JOE		SCF					
	Total for item no 1													

#### **Important Note:**

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.

Tax Invoice /Bill of supply should be pre-printed with all the details as per the requirement under GST Act.

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 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.

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.

Bidder must mandatorily quote for all GST components (CGST, SGST, IGST) as applicable.

The agency shall make payment as per extant minimum wages. They shall make the payment online or through bank and shall produce proof of payment along with every bill.

Contractor Executive Engineer(E)

# **INVENTORY DETAILS of Substation & EA set**

Equipment	Year of Installation	Make
Transformer 3 x 630 KVA	1996	Crompton Greaves
1 x 1250 KVA EA set	2009	Mistsubishi
1 x 1250 KVA EA set	2011	Perkins
1 x 500 KVA EA set	2000	Greaves

# GENERAL CONDITIONS Operation of EA set

#### **Part-I Scope of Operation**

All operations (labour only) such as On/off of EA sets, maintaining records of all parameters, diesel filling, radiator coolant filling, and battery checking and cleaning of EA sets etc pertaining to EA set is also the responsibility of the firm. All tools required for proper operation is in scope of operation.

Run engine for at least 5 minutes every day to ensure proper working of engine and inform to SDE for any abnormalities.

- 1. The following check are to be done before starting of the Engine:-
- a) Check and correct coolant/water level in radiator
- b) Check & correct belt tension
- c) Check lube oil level
- d) Check and ensure sufficient Quantity of fuel in the tank
- e) Check battery terminals and connections for proper tightness-top up of distilled water if reqd.
- f) Check battery Voltage
- 2. After starting the Engine:
  - a) Check lube oil pressure
- b) Check all meters, engine noise etc and inform to SDE(E)/JTO(E) for any abnormalities in writing .

#### Part II- Tasks to be performed within 15 days

- 1. Inspect the installation for any shortcoming, which is to be recorded and brought to the notice of Engineer-in-charge.
- 2. Check the safety devices as well as operating switches for their proper functioning.
- 3. Any defective item to be informed promptly.
- 4. Identify qualified persons responsible for maintenance and operation of EA set
- 5. The person(s) should familiarize themselves with the installation, load distribution and working of E/A set. Need for watch to keep various parameters in permissible limits and responding to various alarms should be clearly understood.
- 6. Inspect the EA room for proper ventilation
- 7. The Engine capacity vis-à-vis the loads being supplied should be checked to ensure that there is no mismatch.
- 8. Check the earthing system for proper values. The results of inspection as above should be recorded in register and brought to the notice of Engineer-in-charge.

#### Part III: Schedule to be followed.

#### Daily:

- 1. Check the availability of diesel. .Coordinate with the SDE/JTO incharge for filling of diesel. Agency shall keep a record of diesel consumption and diesel stock and updated in time.
- 2. Check the level of water in the radiator. top up if needed.
- 3. Check the state of battery, terminals for cleanliness & level of water.
- 4. Check the Lubricating Oil level. Top up if necessary.
- 5. Ensure cleanliness of the EA room.
- 6. Check air line connection and air breather for cleanliness. Clean the air filter, if necessary.

#### **Monthly:**

- 1. Checking and cleaning control panel
- 2. Proper working of safety devices and alarms should be ensured on monthly basis.
- 3. Checking alarms/ safety devices
- 4. Checking of earths-watering earth pits
- 5. Checking of EA room lights and ventilation
- 6. Cleaning radiator fins by blowing air in the opposite direction
- 7. Proper working of safety devices and alarms should be ensured on monthly basis.

# NOTE: - If anything adverse is noticed during the checks, the matter shall be reported to the Engineer- in- charge in writing.

#### **Part IV: Materials**

1. Since the work is not of comprehensive maintenance nature, wherever material requirement is there, the same shall be promptly reported to SDE(E)/JTO(E)

#### **Operation of Substation**

#### Part-I Scope of Operation

- Ensuring that HT Panel, Transformer, LT Panels Capacitor panels & outdoor structure(If available) as well as connecting cables, constituting the Substation are in healthy & clean condition.
- Monitoring on continuous basis, power factor & peak load and ensuring that these are maintained within limits to avoid penalty.
- To disconnect total electric supply or individual loads in case of emergent situation to avoid/limit damage.
- To ensure continuous power supply and in case of breakdowns take steps to ensure restoration
  at the earliest. Carry out general inspection with a view to identify shortcoming if any in the
  Substation installations.
- Check all the switches & meters for proper operations.
- Check availability and working of fire extinguishers at earmarked location
- Check the earthing system for the proper earth values & continuity of earthing system once in 6 month.
- Check oil level in all the equipments to ensure proper levels.
- Check power factor meter, for proper functioning.
- Check all the Electrical connections for proper tightness.
- All tools required for proper operation is in scope of operation.
- Coordinate and pursue with the suppliers for repair/ replacement of faulty items, which are under warranty coverage. Extend full cooperation to the agency carrying out installation and maintenance of work in the area of operation

#### Part II – Tasks To Be Performed Within First 15 days.

- 1. Identify a person(s) with necessary competence to be responsible for sub-station maintenance. The person (s) deputed for sub-station job should know how to treat the persons suffering from electric shock/ burn etc. Be able to operate fire extinguisher. Make himself familiar with the distribution scheme the switches controlling various loads and also importance their of. Clearly understand what is to be done in case of an emergency. This should be done in consultation with Engineer In charge.
- 2. Carry out general inspection with a view to identity short coming if any in the sub-station installation.
- 3. Check all the switches & meters for proper operation.
- 4. Check availability and working of fire extinguishers at earmarked locations.
- 5 Check operation of all the safety devices like relays and fuses.

- 6. Check the earthing system for the proper earth values & continuity of earthing system.
- 7. Check insulation value of the equipments.
- 8. Carry out meggar test.
- 9. Check oil level in all the equipments to ensure proper levels.
- 10. Check power factor meter, maximum demand meter for proper functioning.
- 11. Check all the Electrical connections for proper tightness. All result of above inspection to be recorded and brought to the notice of Engineer- in –charge. Specially highlighting short comings for necessary action.

#### Part- III Schedule to be followed

#### Daily:

- 1.Cleaning of Sub Station / Panel Room including clearing of cob webs. Also ensure that no waste materials are dumped in the Substation/ Panel room. Any difficulties/ discrepancies shall be reported to SDE(E)/JTO(E).
- 2. Check of all measuring instruments for proper functioning. In case of faulty meters, it shall be recorded and reported to sDE(E)/JTO(E).
- 3. Check for abnormal temperature / heat in Transformer / Panels and reported to SDE(E)/JTO(E).
- 4. Check for any abnormal noise in Sub Station equipments and reported to SDE(E)/JTO(E).

#### Monthly:

- 1. Watering of earth pits and tightening of connections.
- 2. Check capacitor panel for proper functioning.
- 3. The colour of the breather attached to the transformer.
- 4. Check for proper working of all the measuring instruments.
- 5. Check for electromechanical interlocking.
- 6. Record of various readings in the log-books and inform any abnormality

#### Half yearly:

- 1. Check HT tripping circuit for proper functioning. In case of out door installation check operation of GOS.
- 2. Checking & cleaning of insulators.
- 3. Checking and cleaning of lighting arrestors.
- 4. Checking & cleaning of drop out fuses.
- 5. Earthling systems check.
- 6. Check working of Relays and other protection Devices.
- 7. Insulation measurement of the system.
- 8. ON/OFF operation of all switches, operating mechanism wherever required, particularly in case of outdoor installation.
- 9. Cleaning of HT/LT OCB/ACB/ other switchgears contacts & tightening of connections.

# NOTE:-If anything adverse is noticed during the checks, the matter shall be reported to the Engineer- in- charge in writing.

#### **Part IV: Materials**

Since the work is not of comprehensive maintenance nature, wherever material requirement is there, the same shall be promptly reported to SDE(E)/JTO(E)

#### **1-DETAILED ACTIVITIES**

- 1) At the start of work, firm shall prepare an inventory of services under operation jointly with J.T.O (E)/SDE (E), concerned.
- 2) Before start of the work complete equipments/services under scope of operation shall be thoroughly examined by the agency jointly with SDE(E)/JTO(E) concerned. All Defects/discrepancies should be brought to the notice of the SDE(E)/JTO(E) in writing within first 15 days of award of work.

#### **2-OPERATING PERSONNEL**

# i. The personnel employed for carrying out the work and their skill requirement is as follows:

Services	Туре	Skill requirements	No. of personnel	To be based	
				at	
Operation of		ITI with wireman	One person per	Site of	
substation	Skilled	competency certificate.	shift/ <b>three</b>	operation	
and E/A sets			shifts per day.		

The person(s) deputed for the job should-

- a) Know how to treat the persons suffering from electric shock / burn etc.
- b) Be able to operate fire extinguisher.
- c) Make himself familiar with the distribution scheme, the switches controlling various loads and also it's importance.
- d) Clearly understand what is to be done in case of an emergency. This should be done in consultation with Engineer in charge.
- e) Operate E/A set
- ii. The operating staff has to be available round the clock at the specified shift. Since the firm will be doing the operation of critical service requirement such as Sub Station and DG sets. operating staff shall be able to take initial steps under emergency situation such as failure of TANGEDCO supply, fire, shocks etc. In case of operation on HT side i.e Tap changing of transformer or Changing of transformer from I to II vise versa shall be carried out under the supervision of 'C' Licence holder and same shall be carried out without any extra cost.
- iii. The workman shall not leave the duty point until his reliever has reported for duty. The firm shall abide by the attendance recording methods in vogue in the site of operation such as finger print scanning etc. The operator deputed to site shall be provided with a contact number by the firm, to contact and monitor the work by JTO(E)/SDE(E).
- iv. Agency shall issue identity cards to the workers and a list of personnel employed together with the copies of such identity cards should be submitted to SDE (E) / JTO (E) concerned. Before being posted at site, police should be informed about the personnel and a copy of the intimation shall be submitted to SDE (E).
- v. The workers engaged by firm should maintain proper discipline and good behaviour with staff of the building. The firm shall remove such workers from the site whose behaviour is found improper or found to be negligent in doing works, fail to adhere the work instructions of JTO(E)/SDE(E). Engineer in Charge's decision shall be final and binding. Failure to remove errant workers from the site within a reasonable time shall amount to treating the presence of such workers as absent and will result in levy of penalty. Presence of unauthorized personnel in the maintenance office is strictly prohibited.

- vi. The workers engaged by the firm should wear uniform with detachable badge indicating the name of the person and firm's name.
- Vii The sitting arrangement for the staff engaged by the agency, space, water and electricity shall be made available by BSNL free of cost.
- viii. The firm has to supply details as per Annexure- III of all the workers likely to be engaged by it before start of the work.
- ix Provision of Supervisor shall also be made as per standard form of contract (EW 8) which forms the part of this contract.
- x The firm and their personnel shall also co-ordinate, operate and feed information on automatic data collection services/automation devices/SMS etc that will be introduced by BSNL at any date during the period of contract.
- xi. Firm shall maintain logbooks as per **Annexure IV to IX.**

#### **3-TEST CHECK BY THE FIELD ENGINEERS:**

- i. For the purpose of assessing the quality of service rendered by the firm against the above contract, the EE,SDE & JTO shall carryout inspection & test checks of the service/work under the contract periodically as follows.
  - a. JTO(E) ----- Fortnightly
  - b. SDE(E)----- Monthly
  - c. EE(E)----- Quarterly
- ii. The above test check is a minimum frequency for inspection & test checks to be done. EE(E) shall increase the frequency on case to case basis depending on the needs of BSNL.
- iii. The above period is determined only to ensure continued quality of service. During these test checks they shall record any deficiency in the work. As per the principle of sampling. If service during sample test check is not found to be satisfactory, then penalty shall be imposed on the contractor as per the penalty clauses above.

#### 4)-METHODOLOGY

- 1. The contractor shall provide minimum qualified staff at the site, which will be adequate to perform routine operational functions. For optimum utilization one person can be responsible for number of services. Also the staff engaged must be available round the clock, round the Year even on holidays.
- 2. At the start of each month, the firm in consultation with the SDE (E) concerned shall prepare a Program for preventive maintenance if any, to be carried out during the month. The actual maintenance carried out shall be recorded in <a href="Annexure-X">Annexure-X</a> at the end of each month as per maintenance schedule vide <a href="Annexure-IX">Annexure-IX</a>.
- 3. Firm Shall submit bills along with a Certificate as per Annexure XI
- 4. If during the period of contract, any of the electromechanical services are added/ altered, the operation of the same shall be done by the firm..
- 5. The details in the section are approximate to give an idea of services to be maintained. Any variation on higher or lower side shall deem to be included. However the tenderer are advised to inspect the site (s) and make them acquainted before quoting.

#### 5. COMMERCIAL

 Any damage to the installation (s) / building during the Operation contract period due to the carelessness/wrong operation on the part of operation staff shall be the responsibility of firm & be replaced / rectified without any extra cost.

- 2. Any accident or damage during operation will be the responsibility of agency & BSNL will not entertain any claim, compensation, penalty etc. on this account or on account of non-observance of law to the work.
- 3. Agency has to observe all the labour rules & regulations in force.
- 4. Firm should also supply two pass port size photographed identity cards of the workers. One copy of the identity card should be submitted to SDE(E) in charge of the maintenance and original shall bear with the workers.
- 5. The BSNL reserves the right to carry out any work at the risk and cost of the agency, if the agency fails to perform any duty as per the contract.
- 6. The tenderer must obtain himself at his own expense all the information necessary for the purpose of execution, before tendering.
- 7. The agency should inspect the site & acquaint itself with all the local condition, means of access to work & nature of work etc. No claim shall be entertained on these accounts.
- 8. The rate quoted must be full & final.
- 9. Nothing extra is payable other than quoted rates unless specified.
- 10. The contractor shall not sublet the work or part thereof.
- 11. The firm shall maintain the installation(s) in such a way as to provide uninterrupted required conditions in air conditioned rooms.
- 12. The BSNL reserves the right to terminate the contract by giving show-cause notice of one month duration at any time during the currency of the contract.
- 13. The BSNL reserves the right to extend the contract as per the provisions of agreement at the same rate & conditions.
- 14. The contractor has to keep all the Electro mechanical equipment at site neat and clean to avoid any accident and fire hazard.
- 15. The operating staff has to be available round the clock throughout the year even on holidays..
- 16. Firm should have the round the clock contact number. In case of emergency contractor and authorized engineer / supervisor shall be available at the site on short notice from engineer-in-charge and make efforts to take situation to normal at the earliest.
- 17. The staff engaged by the firm shall bear the identity card.
- 18. After the contract period is over, the installation has to be duly handed over to the department with all the services in good, healthy, neat, working condition. The contractor shall be responsible for any discrepancies Vis-a-vis, the status of installation at the start of work plus any modification carried out during the currency of the contract.
- 19. Any defects, shortcomings brought to the notice of the BSNL (in writing) within 15 days of award of work shall be the responsibility of the BSNL.
- 20. The contractor agrees that he shall at all times indemnify BSNL against all claims for compensation under the provisions of any law for the time being in force or in respect of any person employed by it in carrying out the contract. Further, such staff has no right to claim employment in BSNL.
- 21. Contractor has to observe all the labour rules and regulations in force & BSNL shall not be liable for any default.
- 22. The firm shall also coordinate with the JTO (E) / SDE (E) for carrying out energy audit/capacity test at site with respect to all Electromechanical Services whenever required.
- 23. The Firm/Contractor will provide the workers with necessary Testing and Safety Equipment.
- 24. BSNL is having right to pre close the agreement in special cases with one month notice without assigning any reason.
- 25. BSNL is having the right to curtail the quantity according to the requirement.
- 26. The rate quoted must be full and final, it is inclusive of all taxes and duties. Nothing extra is payable other than quoted rates.

#### 6.0 TOOLS & PLANTS

a) The firm at its own cost shall provide a lockable tools box preferably in the substation within 15 days of taking over of installation.

The tools box shall contain minimum tools as follows:

- i. Line Tester
- ii. Insulated Cutting Plier
- iii. Insulated Screw Driver
- iv. Torch Light
- v. Waste Cloth
- vi. Ring and adjustable spanner -1 Set

#### vii. Insulated Hand gloves HT

- viii. Test Lamps
- ix. Tong tester
- x. Earth discharge rod

In addition to the above, the firm shall generally posses the following T & P with them, according to the services covered under the scope.

#### a. **General**

- 1. Crimping tool suitable for 6 Sq.mm To 300 Sq.mm Cable.
- 2. LT meggar
- 3. HT meggar
- 4. Earth tester
- 5. Hammer
- 6. Blower for cleaning.
- 7. Drilling Machine
- b) The above list is general and any other requirements for smooth O&M of installation shall be contractor's responsibility and he shall not claim anything extra on this account.
- c) The Firm/Contractor will provide the workers with necessary Testing and Safety Equipment.

#### **SPECIAL CONDITIONS OF THE TENDER**

[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]

The firm shall read carefully the following conditions and shall quote accordingly confirming all the points in their offer.

#### **GENERAL CONDITIONS**

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) The price shall be firm and fixed during the currency of the contract. No cost escalation is permitted. Clause10CC is not applicable.
- 3) 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.
- 4) 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.

### 1. Terms of Payment:

#### For AMC

i) Payments shall be made once in three month subjected to submission of monthly report signed by concerned in charge.

#### 1(i) INCREASE / DECREASE OF TENDERED QUANTITY

- a) BSNL will have the right to increase or decrease up to 50% of the quantity 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 and unavoidable cases BSNL can increase the quantity of goods and services beyond 50% of the tendered quantity without any change in tendered and accepted unit price and also other terms and conditions as applicable at the time of award of contract.

#### 1(ii) 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.

#### 2. COMPLETION OF WORK:-

At the time of issuing NIT for a particular work, the time allowed for completion of work consistent with magnitude and urgency of work is specified. The time allowed for carrying out the work as entered in the contract is reckoned from the tenth day after the date on which the orders to commence the work are given to the Contractor. To ensure good progress of the work during the execution, the contractor is bound in all cases in which the time allowed for any work exceeds one month (except special jobs) to complete 1/8<sup>th</sup> of the whole of the work before 1/8<sup>th</sup> of the time allowed under the contract has elapsed, 3/8<sup>th</sup> of the work before half of the time has elapsed and 3/4<sup>th</sup> of the work before 3/4<sup>th</sup> of such time has elapsed. However, for special jobs, if a time schedule has been submitted by the Contractor and the same has been accepted by the Engineer-in-charge, the contractor shall comply with such time schedule.

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#### 3) 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 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.

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

#### 4) EARNEST MONEY DEPOSIT

The firm should deposit EMD in proper form. 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. Firm has option to deposit earnest money in the form of Bank guarantee in BSNL's attached format and manner.

#### 5) PROGRAMME FOR EXECUTION

The firm shall supply detailed programme to Engineer-in-Charge for execution of contract within fifteen days of award of work. The programme shall contain details about submission of drawing, supply of materials, tentative dates for installation and commissioning.

#### 6) STORES AND SAFETY

a) All the stores and materials required for the satisfactory completion of the work shall be arranged at work site by the contractor from his own source. Space for storing the same materials may be provided on request from the contractor. However safe custody of the material stores at site will be responsibility of the contractor.

#### 7) CO-ORDINATION AT SITE

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

#### 8). COMPLETION DRAWINGS/Log Book

On completion of work the agency shall submit Log book, complaint register, attendance register if any maintained at site etc to the SDE(E)/ JTO(E).

#### 9. DEFECT LIABILITY

- <u>a.</u> Any defects occurred due to wrong operation is the responsibility of the agecy. The same shall be rectified without any extra cost within the time specified by the Engineer-in –Charge.
  - (b) The following aspects are, however, not covered under the purview of guarantee:
    - i) Consequential losses and damages due to Natural calamity

#### 10. CHANGES IN SPECIFICATIONS

The BSNL reserves the right to make changes in respect of specifications of work if in its opinion same is found necessary. However such alterations shall be made after mutual discussions and agreement between the BSNL and the contractor. Any price implications in this regard shall be mutually discussed and agreed up on in terms of clause 12 of EW 8 form. The BSNL as matter of principle will not permit modifications by the contractor in design /specifications of any document

/material. However the same can be agreed upon by the BSNL under exceptional circumstances where

a) The same is necessitated due to non-availability of material / components of certain specifications / make.

Or

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

Prior approval is necessary before undertaking any alteration/modification in the specifications of the equipment.

#### 11. Packing, Forwarding, Storage at site.

Before dispatch to the site, the equipment /components/materials shall be properly packed so as to afford protection against transit damages and damage against storage in open areas either at transporters premises or at work site. Special care shall be taken in respect of sensitive items. When storage in open areas is inevitable, proper water proof covering shall be provided to protect damages on account of rain water etc. However damaged items should be replaced as per the directions of the Engineer –in-charge.

#### 12 Inspection Of Site & 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 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.

#### 13) I.S. Standards:

The entire system shall conform to relevant BIS including safety 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. A list of relevant standards, approved makes of equipment is furnished and forms part of the tender document.

#### 14) SUFFICIENCY OF TENDER

The contractor shall be deemed to have satisfied himself before entering into the contract as the correctness and sufficiency of his offer for the work and of the rates and prices quoted in the schedule of works and items/quantities or in bills of quantities for the contract period. These rates and prices shall except as otherwise provided, cover all his obligations under the contract and all matters and things necessary for proper completion of works.

#### No additional conditions shall be stipulated by the tenderer.

#### 15) Test Certificate

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

- Technical catalogues of Engine & alternator
- Manufacturer's Qriginal test certificates for Engine, Alternator, E/A set, control panel
- Routine test certificates for individual items.
   Department may test each unit at factory without any extra payment.

#### 16. Set off clause:

Only those payments due to Government against a particular contract agreement shall be deducted from the bills of the same work and not deductible from other works.

#### 17. CURRENCY OF CONTRACT

- a The currency of contract shall be 12 months.
- b The BSNL reserves the right to terminate the contract by giving show cause notice of one-month duration at any time during the currency of the contract.

#### 18. PENALTY CLAUSE

- a. Any damage to the installation(s)/building due to the carelessness on part of firm's staff shall be the responsibility of firm and shall be replaced/rectified without any extra cost
- b. Any accident or damage will be the responsibility of agency and the BSNL will not entertain any, claim, compensation, penalty etc on this account or on account of non-observance of any other requirement of law relevant to his work.
- c. Exemption for this condition: If any accident or damage to the installation due to the natural calamity such as cyclone/flood/earth quake occurs, based on the report of JTO(E) /SDE(E) the penalty clause may be waived. The SE (E) is the competent authority for such waiver which is final and binding d. In case the agency do not engage the minimum staff mentioned in schedule of work, recovery shall be made from his bill at the rate of double the prorata basis as applicable per person/Shift. The decision of the EE(E) Shall be final.
- e. In case of a major accident/loss on account of negligence on the part of the contractor apart from the action taken as per Sl.No-1 above the contract shall be terminated and 10% of the estimated cost shall be recovered. Decision of Superintending Engineer (E) shall be final and binding on the contractor.

### **List of Annexure**

SL NO	Description of Annexure	Annexure
1	Details to be supplied before starting the work & Details of staff to be posted	III
2	Complaint Register	IV
3	Log Book for Sub Station	V
4	EB Bill register	VI
5	Log Book for EA set	VII
6	Daily Maintenance Activity	VIII
7	Periodical Schedules	IX A,B
8	Format of Abstract of actual periodical maintenance carried out in the quarter ending	Х
9	Certificate to be submitted along with each bill	XI

### Details to be supplied before starting the work

1.	Name of the Agency (with Office address)	
2.	Name of the Proprietor	
3.	Telephone No.(s) of the firm	
4.	E_mail of the firm	
5.	Name & Address of the Supervisor	
6.	24 Hours contract No.	
7.	Particulars of the License	
8.	FAX no. of the Firm	

# A. Details of the Staff to be posted at site

#### **Annexure - III**

	Name & Address	Qualification	Responsibility
1			
2			

<u>COMPLAINT REGISTER</u> Annexure-IV

Date & Time of complaint	Officer / Sections lodging complaint	Nature of complaint	Date & Time redressal of complaint	Acknowledgement of rectification by complainant	Remarks

**ANNEXURE V** 

#### **LOG BOOK FOR SUBSTATION**

The front cover of the log book shall indicate

Name of work:

**Name of contractor:** 

1(a) Each page shall contain in one side the following table for recording data

DATE:
-------

	нт	PANEL		TRANS	ANSFORMER 1				TRAN SFOR MER 2	SFOR			SIGN OF OPER	SIGN OF EXCH				
Time	HT VOLTAGE	HT CURR	MD REC	HT Curre	LT Volta	ige		LT C	urren	1	Temp eratur	Same as for	KWH	KVAH	KVAR H	P F	ATOR	ANGE STAF
		ENT	ORD ED	nt	RY	YB	BR	RY	Y B	BR	Ф	transfo rmer 1						F
10.00																		
12.00																		

- # 1. READINGS SHALL BE TAKEN EVERY TWO HOURS UNLESS OTHERWISE SPECIFICED
  - 1. THE ABOVE IS GENERIC COLOUMNS AND ANY OTHER COLOUMNS/DATA COLLECTION SPECIFIC TO SITE SHALL ALSO BE RECORDED IF INSTRUCTED BY SDE(E)

### **EB BILL REGISTER**

**AnnexureVI** 

Month & Year	Date of recording	Recorded MD	Consumed Units	PF	Bill Amount	Penalty, if any	Remarks

#### **ANNEXURE VII**

LOG BOOK FOR E/A SET AT	

### Name of work: Name of contractor:

### LOG BOOK FOR EA SET RUNNING OR THE MONTH OF

					<u> </u>	<u> </u>						<u> </u>						
	E/A set No.	Start time	Stop time	V	/oltag	е		.oad ırren	ıt	F r e q	Spe ed	L u b oi – T e m p	Lu b oil Pr.	Water	Die: lev Ltı	el	KW	/H
Date		Hrs	Hrs	RY	YB	BR	R	Υ	В	Hz	RP M		Kg/ cm 2	Temp	S t a r t	S t o p	S t a rt	S t o p

Note: Only Printed Log books shall be used at site.

Contractor EE(E)

#### **ANNEXURE VIII**

#### **DAILY MAINTENANCE ACTIVITY**

Daily maintenance activity		Time of Check:
PARAMETER	OBSERVATION	ACTION TAKEN FOR ABNORMALITY/INACTION
TRANSFORMERS/SUBSTATION	EQUIPMENTS	
Room/substation cleaning	Done/ Not done	
Whether all instruments are working	(Yes/No)	
Abnormal Temperature	( No/Yes)	
Abnormal Noise	(Yes/ No)	
Working of Instruments	Ok/ Not OK	
E/A SETS		
Check Availability of Diesel		
Check level of water in radiator, Top up if needed		
Check state of battery		
Check lubricating oil level, top up if necessary		
Check air line connection and air breather		
Check of terminals of batteries		
Check Battery water level		
Cleanliness of area around EA set		

In case of abnormality the operator shall report the same to the JTO (E)/SDE (E) concerned.

#### Signature of the operator

(The above shall form part of log book)

#### **ANNEXURE-IX**

# PERIODICAL SCHEDULES (CHECKS)

Note: The periodical schedule sheets shall be suitably placed in the log book itself.

#### **A.** MONTHLY REPORT

EA SET										
Activity		E/A set 1	E/A set 2	E/A set 3						
Date and time										
Checking and cleaning control panel Checking alarms/ safety devices  Checking of earths-watering earth pits Checking of EA room lights and ventilation Cleaning radiator fins by blowing air in the opposite direction	Done/ Not done  Working/ Not working Done/ Not done  Ok/ Not Ok  Done / Not done									

	SUBSTATIONS	
Check capacitor panel for propauto functioning	per OK/ Not OK	
Check of colour of breather, if	f any Blue/White/ Pink	
Check of Electro mechanical interlocking	Easy/ Difficult	
Check of log book entries and reporting any abnormality	Entries done properly/ not	
Cleaning the surface of the transformers and panels	Cleaned/ Not	
Check First Aid box and its replenishment	Ok/ Not Ok	
Check proper placing safety management cleaning and their physical control of the		
Checking of earths-watering opits	earth Done/ Not done	

Contractor EE(E)

#### **B.HALF YEARLY ACTIVITY FORM**

#### **EARTHING SYSTEM**

Date:

Location	No. of Earth electrode	Earth PIT Chamber condition	Earth Resistance	Recorded by	Signature of BSNL staff/ JTOE(E)	Remarks

Note:

**1.** The earth values shall be updated on the cover plate or the place where the values are already sign written along with the date of testing.

#### **CAPACTIOR PANEL**

SI.	Description of Items	Activity	Sign of	Sign of	Remarks
No		Carried	operator	JTO(E)	
		out			
1	Inspection & checking visual				
	indications & meters				
2	Inspection & checking of TPN				
	switch/MCB for operation &				
	Tightness of connection				
3	Opening the covers and cleaning				
	the panel and surrounding area				
4	Cleaning of contacts				
5	Checking and cleaning of bus bars				
6	Checking earth connections				
7	Checking the current taken by				
	Each capacitor bank				
8	Check the capacitor drawing over				
	30% current than rated				
9	Disconnect the capacitor having				
	Leakage problem				

**Note:** In case the report shows any abnormality, firm shall inform action needed for restoring to normal condition

# ANNEXURE X CERTIFICATE TO BE SUBMITTED FOR MONTHLY SCHEDULED ACTIVITIES

Name of	f contractor:		·	
Agreem	ent No. :			
Site	:			
and as p	have been carried coper terms and condition of the been performed. Except	out properly as the agreement	s per Maintenance and i/c testing/dril	ls etc. required during the
SI.No	ITEM/SERV	ICES	REASONS FOR N	ION OPERATION
Contra	ctor's representative	Exchange i	-	JTO(E)

#### **ANNEXURE - XI**

#### **CERTIFICATE TO BE SUBMITTED ALONG WITH EACH BILL**

1. CERTIFIED THAT WE HAVE CARRIED OUT THE PREVENTIVE MTCE. OF ALL THE SERVICES COVERED IN THE ABOVE CONTRACT SATISFACTORILY AND ALL THE SERVICES HAVE BEEN UNDER SATISFACTORY WORKING CONDITION EXCEPT THE FOLLOWING DUE TO THE REASONS MENTIONED AGAINST THE RESPECTIVE ITEM:

Sl.No	ITEM/SERVICES	REASONS FOR NON OPERATION

- CERTIFIED THAT THE EQUIPMENTS FOR WHICH THE ENERGY EFFICIENCY PARAMETERS HAVE BEEN PRESCRIBED WERE MAINTAINED WITHIN THE PRESCRIBED BENCHMARK.
- 3. CERTIFIED THAT REQUIRED INVENTORY HAS BEEN REPLENISHED BY US.
- 4. CERTIFIED THAT EPF FOR THE EMPLOYEES ARE REMITTED.

SIGNATURE OF CONTRACTOR

JTO (E) SDE (E)

# LISTOFAPPROVED MAKES-BSNLELECTRICALWING (As on 29-02-2016)

_	(As on 29-02-2016)				
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 )	BieccoLawrie / Crompton / Kirloskar / MEI / Jyoti Ltd			
5	Transformer (Oil filled / Dry type) a) Above 400 KVA b) Up to 400 KVA	ABB / Schneider Electric /Andrew Yule / Bharat Bijlee / Crompton / EMCO /Kirloskar / Siemens  In addition to above makes, Uttam/ 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/Yokins			
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/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			

Contractor EE(E)

28	GI/MS Pipe	ATC / ATL / BST / GSI / ITC / ITS / IIA /
20	GI/ 13 Tipe	JST / Jindal /TTA / Tata/Zenith
29	Foot Valve	ISI mark
30	Gate Valve	Advance/Audco/Johnson Controls / Zoloto /Annapurna /
30	Gate valve	Fountain /Kirloskar / Leader / Sant / Trishul
31	Compressors	Carrier/Emerson copeland/York/Danfoss
	Compressors	(for chillers only)
32	Resin Bonded Glass	Fibre Glass / Pilkingston / UP Twiga
32	wool	Tible Glass / Flikingston / Or 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	Appollo / Cerebrus / Edward / Fenwal/ Hochiki / Nitton /
	Detector	Wormald /System Sensor
41	Fire Panel	Agni Instruments / Agni Devices/ Aruna Agencies / Carmel
	(Microprocessor	Sensor / Ravel Elect. / Honeywell Essar / Notifier / Navin
	based)	Systems
42	Sprinkler/ Hose Reel &	ISI mark
	Hose Pipe	
43	Fire Extinguisher	ISI mark
44	Lift	OTIS, Kone, Mitsubishi , Schindler, Johnson, Thyssenkrupp
		Elevator(India)

#### NOTE:

- 1. 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.
- 2. 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.
- 3. 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.

#### **PROFORMA OF SCHEDULES**

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

SCHEDULE 'A'

Schedule of quantities: Attached

SCHEDULE 'B'

Schedule of materials to be issued to the bidder: **Nil** 

SCHEDULE 'C'

Tools and plants to be hired to the bidder: Nil

SCHEDULE 'D'

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

SCHEDULE 'E'

Schedule of components of Materials, Labour etc. for escalation: Nil

SCHEDULE 'F'

Reference to General Conditions of contract:

Name of work:	
Estimated cost of work:	As per NIT notification page
Earnest money:	/ is per 1121 floatileaden page
Security Deposit and performance Guarantee	

General Rules & Directions: Officer inviting tender: Executive Engineer (E)

**Electrical Division-III** 

Chennai

Definitions:

2(v) Engineer-in-Charge Executive Engineer (E), ED-III,

Chennai

2(vi) Accepting Authority SE (E), Electrical Circle -II,

Chennai

2(x) Percentage on cost of materials

and labour to cover all 10% (TEN)

over heads and profits

CLAUSE 5

Time allowed for execution **Twelve Months** 

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

Clause 25

Competent authority for conciliation: SE (E) not in-charge of the work.

Contractor EE(E)

#### **BSNL EW-8**

### Bharat Sanchar Nigam Limited Electrical Wing

Electrical Division: **III, Chennai** Sub Division: **II, Chennai** 

- 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. 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.
- 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 upto 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 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.
- 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 bidder's thumb impression is given by the bidder in place of signature) Occupation of Witness:	(Signature of bidder ) (Name & Postal address)				
	Seal of Bidder				
	Date:				
Acceptance of Tender					
The above tender (as modified by you as provided in the letters mentioned hereunder) is					
accepted by me for and on beh					
Rupees)  The letters referred to below shall form part of this contract Agreement  a)  b)					
	For & on behalf of BSNL				
	nature : signation :				

Contractor EE(E)