

Bharat Sanchar Nigam Limited (Electrical Wing)

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

No.22, Kellys Road, Chennai - 600010. Office: 044-26448484 E-mail: ee1chennai@gmail.com

TENDER DOCUMENT

Name of Work: **Operation and Maintenance of Electromechanical** services at Telephone Exchange, Kellys, Chennai (For 2 months).

NIT No: 55/EEE/ED-I/CH/2023-24 dated 10-11-2023

Date of opening: 22-11-2023

This tender document contains **59** pages only.

(To be filled in by the Contractor)

Name of the Agency

Telephone No. of agency: E-mail ID :

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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	Operation and Maintenance of Electromechanical services at Telephone Exchange, Kellys, Chennai (For 2 months).
2	Estimated cost put to tender (Rs.)	Rs. 1,99,084/- (Excluding GST)
3	Earnest Money (Rs.)	Rs. 3,982/-
4	Period of completion	TWO (2) MONTHS
5	Last date submission of tender	Up to 15:00 Hrs. on 22-11-2023
6	Last date & time for submission of original Tender cost and EMD	Up to 15:00 Hrs. on 22-11-2023
7	Date and time for opening of tender	15:30 Hrs. on 22-11-2023
8	Tender cost (Non refundable)	Rs 590/-

ELIGIBILITY CRITERIA

The Contractors satisfying the following conditions:

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

and

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

OR

b. Experience of having successfully completed similar works in BSNL comprising of Electrical Installations as part of scope of work during last 7years 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.

<u>Similar works</u> means ; Operation & Maintenance of Electro Mechanical Services in TE buildings including Substation, DG sets, PAC units etc

IMPORTANT INSTRUCTIONS TO BIDDERS DOWN LOADING THE TENDER DOCUMENT FROM WEB SITE

The bidders, who have down loaded the tenders from the web site, shall read the following important instructions carefully before quoting the rates and submitting the tender documents.

- 1. The tenderer should see carefully & ensure that the tender document containing all the pages as per the index has been down loaded for making required entries. The balance pages of Standard BSNL EW8 form will be attached with the agreement after the award of work.
- 2. A clear print out of tender document shall be taken on good quality A4 size paper and the printer settings, etc., shall be such that the document is printed as appearing in the web and without any change in format, number of pages, etc., and shall also ensure that no page is missing. Only original computer printout of the document shall be used. Photocopy shall not be accepted.
- 3. In case of any doubt in the downloaded tender, the same shall be got clarified from the Engineer in charge calling the NIT before submission.
- 4. The name of the bidder shall be filled on the relevant pages of tender document and all the pages shall be invariably signed. (With stamp)
- 5. The tenderer shall ensure that the downloaded tender document is properly stitched before submitting the document.
- 6. There shall be no correction / addition / alteration / omission made in the text of the downloaded tender document. If found otherwise, the same shall be treated as non-responsive and rejected.
- 7. The tenderer shall sign the declaration enclosed before submitting the tender.
- 8. The tenderer shall submit the tenders in 2 covers marked as No.1 and No.2. The tenderer shall submit the credentials for meeting the eligibility conditions along with the cost of the tender fee and EMD in the prescribed format as detailed in NIT, along with a covering letter on his printed letter head stating the details of enclosures in the **first cover**. The credentials shall be self-attested. The **second cover** shall contain the price bid. The rates and amounts should be filled in the schedule of work attached thereto.
- 9. The **cover-1** shall contain the following.
 - 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 if applicable
 - 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. Certificate of work experience issued by client department (Form 'C') if applicable

Not submitting the above documents in Cover-1, the Cover-2 will not opened

10. The **Cover-1 and 2** 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

Sub Division: ESD IV, Chennai

Electrical Division: ED-I, Chennai

NIT No : 55/EEE/ED-I/CH/2023-24 dated 10-11-2023

Item rate tenders on single bid system are invited on behalf of CMD,BSNL for the work **Name of Work : Operation and Maintenance of Electromechanical services at Telephone Exchange, Kellys, Chennai (For 2 months)** 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.

- 1. Tenders which should always be placed in sealed covers with the name of the work written on the envelope will be received and opened by the tender opening authority as per the date and time mentioned in **INFORMATION AND INSTRUCTIONS FOR BIDDERS**. **Unsealed tenders will be summarily rejected**.
- 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 1,99,084**/- 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 **TWO months** from the 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 Chennai.bsnl.co.in at free of cost. The BSNL EW-8 document can be seen from the web site Chennai.bsnl.co.in at free of cost.
- 8. 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 Telephones** payable at **Chennai.** The validity of the tender cost in the form of DD shall be **60 days** from the date of opening.
- 9. 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 Telephones** payable at **Chennai.** 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.

- 10. The last date for submission of bid is 22-11-2023 up to 3:00 PM and the bid submitted hall be opened at 03:30 PM on the day. If a holiday is declared on the tender opening day, the tender will be opened on the next working day.
- 11. 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 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.
- 12. 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.
- 13. If it is found at any stage of tender scrutiny after submission of tender that the bidder has made any correction/addition/alteration/omission intender documents vis-à-vis tender documents available on the website /original Draft NIT in office, the bid shall be treated as non-responsive and shall be summarily rejected 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.
- 14. The Tender documents shall not be sent through the Courier/Post. Tender documents received through Courier/post shall not be opened/ considered at all. All communication with the bidders shall be in writing. Fax / E-mail shall be covered under this category and considered as adequate means of communication.
- 15. 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.

- 16. 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.
- 17. 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.
- 18. 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.
- 19. 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.

- 20. 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.
- 21. The bidder 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'**.
- 22. 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.
- 23. 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.
- 24. 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 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. 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.
- 5. 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.
- 6. 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.

7. 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.
- 8. 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.
- 9. 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.

10. 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.

11. 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.

- 12. 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.
- 13. 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

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

(Seal of the firm)

(Signature of Bidder)

FORM 'B'

Undertaking regarding EPF provisions

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

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

In case at any stage, it is found that the information given by me is false / incorrect, BSNL shall have the absolute right to take any action as deemed fit/without any prior intimation to me".

* strike out whichever is not applicable

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

(Seal of the firm)

(Signature of Bidder)

Undertaking regarding ESI provisions

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

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

In case at any stage, it is found that the information given by me is false / incorrect, BSNL shall have the absolute right to take any action as deemed fit/without any prior intimation to me".

* strike out whichever is not applicable

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

(Seal of the firm)

(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

(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 w	ork				
				KNOW	ALL
MEN by these presents that WE					OF
having our reg	istered office	at			
(hereinafter called "the Bank") are bound unto _			(hereinafter d	called
"the BSNL") in the sum of	for which pay	ment wil	I and tr	uly to be ma	de of
the said BSNL, the Bank binds itself, its success	sors and assig	ns by the	ese pre	sents.	

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

1. Ir	٦	considera	tion	of	the	CMD,	BSNL	(her	einafter	calle	d 'BS	SNL')	having	g ag	greed	to	exe	mpt
_					_ (he	reinafte	called	'the	said bio	lder(s)') from	the	deman	d un	der th	ie ter	ms	and
С	on	ditions of	an ag	greer	nent/	Advanc	e Purch	ase O	rder No)			date	d			m	ade
b	etv	veen _						and					for	th	ne	supp	ly	of
_						_ (hereii	nafter c	alled	"the sai	id agre	emen	t"), c	of secur	ity d	leposit	t for	the	due
fu	ulfil	lment by tl	he sa	id bi	dder	(s) of th	e terms	and c	conditior	ns conta	ained	in the	said Ag	reer	nent, d	on pro	oduc	tion
0	f	the bank	gua	arant	ee f	or							we,	(nai	me o	f the	e ba	ank)
_						(herein	after	refer	to a	ıs "t	he l	oank")	at	the	requ	lest	of
_								(bidd	er(s)) do	o hereb	y und	ertake	e to pay	to th	e BSN	JL an	amo	ount
n	ot	exceeding	g				aga	ainst a	any loss	or da	mage	caus	ed to o	r su	ffered	or w	/ould	be
С	au	sed to or	suffe	ered	by B	SNL by	reasor	n of a	ny brea	ch by	the sa	aid Bi	dder(s)	of a	ny of	the t	erm	s or
С	on	ditions cor	ntaine	ed in	the s	aid Aare	ement.											

- 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)

IMPORTANT INSTRUCTIONS TO THE TENDERERS

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

1) INCREASE /DECREASE OF TENDERED QUANTITY

- a) BSNL will have the right to increase or decrease up to 25% of the Contract value depending upon the requirement of goods and services specified in the schedule of items without any change in the unit price or other terms and conditions at the time of award of contract.
- b) In exceptional situation where the requirement is of an emergent nature and it is necessary to ensure continued supplies from the existing vendors, the purchaser reserves the right to place repeat orders up to 50% of the quantity of goods and services contained in the running tender/contract within a period of 12 months from date of award of work at the same rate or a rate negotiated (downwardly) with the existing vendors considering the reasonability of rates based on prevailing market conditions and the impact of reduction in duties and taxes etc.

2) <u>TERMS OF PAYMENT:</u>

Quarterly Payment shall be made after completion of maintenance period. With each bill, a certificate from the Contractor that maintenance has been carried out properly and testing / drills etc. required during the period have been performed in addition to the penalty explicitly indicated under penalty clauses.

3) <u>EPF PROVISIONS:-</u>

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) STORES AND SAFETY

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.

5) <u>CO-ORDINATION AT SITE</u>

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.

6) <u>CHANGES IN SPECIFICATIONS</u>

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 forms. 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.

7) <u>I.S. Standards:</u>

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.

Name of Work: Operation and Maintenance of Electromechanical services at Telephone Exchange, Kellys, Chennai (For 2 months) Name of Work : Operation and Maintenance of Electromechanical services at Telephone Exchange, Kellys, Chennai (For 2 months).

SCHEDULE OF QUANTITIES

SI. no	Description of Item	Qty	Unit	Rate per Unit excluding GST	Total Amount Excluding GST (Net cost)	CGST IN %	Amount in Rs	SGST IN %	Amount in Rs	IGST IN %	Amount in Rs	Total Amount including GST	HSN/SAC code
1	2	3	4	5	6	7	8= (6 x 7)	9	10= (6x 9)	11	12=col (6*11)	13= (6+8+10+12)	14
	SH-I : Operation of Services												
1	Providing following manpower to perform operation / scheduled activities of the following electro mechanical services and removing of faulty items & fixing of new items provided in SH-III for attending repair / faults for smooth operation of electrical installations, of entire campus on all working days, including all holidays, Sundays etc as required. The schedules of maintenance of Electro-mechanical services are to be carried out as per the specification attached. Man power: Three Electricians (skilled labour) - One in each shift Services a. El/Fans, Compound Lighting & Pumps b. Precision Package AC units (3 x 7TR -5ESS Only monitoring) c. EA sets (1 x 125 KVA & 1 x 500 KVA) d. Substation Note: (Operator shall have to check operation of Fire detection panels)	2 Months	Month										

	SH- II : Comprehensive Maintenance										
2	Comprehensive maintenance of the following pump sets										
	along with starter boxes, SFUs i/c arranging specialised										
	manpower & materials for replacement of faulty										
	components, attending of faults, & carrying out periodical										
	checks as per maintenance schedule etc as required.,										
	Lifting from existing open well / bore well, transportation,										
	reinstallation, servicing, replacement of items such as										
	bearings / bushes / spares, terminal plates, glands,										
	rewinding of motors, etc shall also be covered in this item.	2									
а	5HP Centrifugal Monoblock pumpset - 1No	2	Month								
		Months	Σ								
Un	t Rate in words (as per Col. 5)				1		1	1	1		
b	2HP Centrifugal Monoblock pumpset - 1No	2	Month								
	Zi li Centindgai Monobiock pumpset - 110	Months	Σ								
Un	it Rate in words (as per Col. 5)						·				
		2	nth								
С	1.5HP Bore well Jet pump - 1 No	Months	Month								
Uni	t Rate in words (as per Col. 5)			1		1		1	I		
	SH- III : Misc Items										
3	Supplying of following materials / accessories in the										
	existing Lamp Fitting, Fan, switch board, compound light										
	pole, MCB DB, LT Panel, for attending the daily faults										
	received from the various offices occupied in the building										
	etc on all the seven days a week including removing the										
	faulty components and replacing with new items shall										
	be done by labours provided in SH-I etc as required.										
	Note: These item shall be replaced only if the items										
	under maintenance becomes faulty & with the consent of										
	EE (E) /SDE (E) / JTO (E).		Each								
а	36W FI. Tubes	5 Nos	ш								
Un											
	t Rate in words (as per Col. 5)				1						
b	Electronic Ballast suitable for 36/40 W Fl. Tube	5 Nos	Each								
		5 Nos	Each								
Uni	Electronic Ballast suitable for 36/40 W Fl. Tube t Rate in words (as per Col. 5)		ш								
	Electronic Ballast suitable for 36/40 W Fl. Tube	5 Nos 10 Nos	Each Each								

It Rate in words (as per Col. 5) It Rate in words (as per Col. 5) 2.5 mfd capacitor for ceiling fan 4 Nos $\frac{6}{50}$ 5/6 Amps Piano type switch 4 Nos $\frac{6}{50}$ 3 pin 5/6 Amps socket outlet 5 Nos $\frac{6}{50}$ 11 Rate in words (as per Col. 5) 5 3 pin 5/6 Amps socket outlet 5 Nos $\frac{6}{50}$ 15/16 Amps socket outlet 2 Nos $\frac{6}{50}$ 15/16 Amps Piano type switch 2 Nos $\frac{6}{50}$ 15/16 Amps socket outlet 2 Nos $\frac{6}{50}$ 6 pin 15/16 Amps socket outlet 2 Nos $\frac{6}{50}$ 6 pin 15/16 Amps socket outlet 2 Nos $\frac{6}{50}$ int Rate in words (as per Col. 5) $\frac{6}{50}$ $\frac{1}{50}$ 5 step type Fan Regulator 1 No $\frac{6}{50}$ step type Fan Regulator 1 No $\frac{6}{50}$ $5 \cdot 32$ A Single Pole C series MCB 1 No $\frac{6}{50}$ $40A$ Double Pole Isolator 1 No $\frac{6}{50}$ 1×1.5 sqmm PVC insulated copper wire 30 Mtrs $\frac{5}{50}$ 1×1.5 sqmm PVC insulated copper wire 30 Mtrs $\frac{5}{50}$		Name of Work: Operation and Maintenand	ce of Electromecha		ervices	at Tele	phone Ex	change	, Kelly	s, Che	nnai	(For 2 months)	I
2.5 mfd capacitor for celling fan 4 Nos $\frac{6}{92}$ Image: color of the celling fan 4 Nos $\frac{6}{92}$ 5/6 Amps Piano type switch 4 Nos $\frac{6}{92}$ Image: color of the celling fan 5/6 Amps Piano type switch 4 Nos $\frac{6}{92}$ Image: color of the celling fan Image: coll	d	Side holder for FI. Fittings	10 Nos	Each									
nit Rate in words (as per Col. 5) 5/6 Amps Piano type switch 4 Nos 3 pin 5/6 Amps socket outlet 5 Nos 9 pin 5/6 Amps socket outlet 5 Nos 15/16 Amps Piano type switch 2 Nos 15/16 Amps Socket outlet 1 No 1 No <td>Uni</td> <td>t Rate in words (as per Col. 5)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>I</td> <td></td> <td></td> <td></td>	Uni	t Rate in words (as per Col. 5)								I			
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nit Rate in words (as per Col. 5) 3 pin 5/6 Amps socket outlet 5 Nos 15/16 Amps Piano type switch 2 Nos 15/16 Amps Piano type switch 2 Nos 6 pin 15/16 Amps socket outlet 2 Nos 6 pin 15/16 Amps socket outlet 2 Nos 1 No 1 No <	f	5/6 Amps Piano type switch	4 Nos	Each									
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15/16 Amps Piano type switch 2 Nos $\frac{6}{20}$ Image: constraint of the switch of	g	3 pin 5/6 Amps socket outlet	5 Nos	Each									
Ante in words (as per Col. 5)Image: color of the second colo	Uni	t Rate in words (as per Col. 5)					·	·					·
6 pin 15/16 Amps socket outlet 2 Nos $\frac{v}{v}$ Image: constraint of the second s	h	15/16 Amps Piano type switch	2 Nos	Each									
Alte in words (as per Col. 5)step type Fan Regulator1 No $\frac{6}{20}$ IIIIIIIanit Rate in words (as per Col. 5)5-32 A Single Pole C series MCB1 No $\frac{6}{20}$ IIIIIIIAdA Double Pole Isolator1 No $\frac{6}{20}$ II <td>Uni</td> <td>t Rate in words (as per Col. 5)</td> <td>1</td> <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td>· · ·</td> <td></td> <td></td> <td></td> <td></td>	Uni	t Rate in words (as per Col. 5)	1			1		1	· · ·				
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40A Double Pole Isolator 1 No 1/0 <t< td=""><td>k</td><td>5-32 A Single Pole C series MCB</td><td>1 No</td><td>Each</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	k	5-32 A Single Pole C series MCB	1 No	Each									
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nit Rate in words (as per Col. 5)	n	1 x 4 sqmm PVC insulated copper wire	10 Mtrs	Meter									
	Uni	t Rate in words (as per Col. 5)											

	Name of Work: Operation and Maintenance of Ele	ctromecha	nical s	services	at Telepho	one Exc	change,	Kelly	s, Che	nnai	(For 2 mo	nths)	
0	Replacement of fault FI fitting by LED 20W LED fitting making connection etc as reqd (Make: Havells or SS Make)	5 Nos	Each										
Unit	t Rate in words (as per Col. 5)												
р	Supplying and fixing of 50W LED street fitting in the existing pole i/c making connection etc as reqd (Make: Havells, Model: Superb Street Light or SS make)	2 Nos	Each										
Unit	t Rate in words (as per Col. 5)												·
q	Supplying and fixing 20mm casing capping on surface of wall etdc as reqd	10 Mtrs	Meter										
Unit	t Rate in words (as per Col. 5)			11		1	I	I		I	II		
r	Supplying and laying 3 core 1.5Sqmm PVC insulated PVC sheathed copper conductor wire in the existing pole / surface etc as redq	15 Mtrs	Meter										
Unit	t Rate in words (as per Col. 5)			II			I			1	II		1
		Total ex	. GS	TRs.				То	tal i/c	GS	T Rs.		
Amo	ount (exclusive GST) in words			I		Amo	unt (ind	clusiv	e GST) in v	vords		1

Contractor

Executive Engineer(E)

IMPORTANT NOTES:-

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	Invoice /Bill should be pre-printed as per the GST format.
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	The HSN / SAC Codes indicated are most appropriate. However, any other HSN/SAC code is applicable, the vendor may give it in writing, in case their tender is accepted, so that the same may be incorporated in the invoices.

Contractor

Executive Engineer(E)

Technical Specifications

INVENTORY DETAILS.

El & Fans	5930 sq.mtr
Pumps	
5HP Centrifugal Monoblock pumpset	1nos.
2HP Centrifugal Monoblock pumpset	1no
1.5HP Borewell Jet pump	1no.
Compound Light	
150 W SV lamp poles	2nos.
Gate light	4nos.
FL Lamps poles	5 Nos
36 W CFL lamps wall mounting	12 No
E/A Set (only Operation)	
1x 500 KVA EA set	1 No
1 x 125 KVA EA set	1 No
Substation (only Operation)	
1 x 630 KVA Transformer	1 No
1 x 400 KVA Transformer	1 No
HT Panel	1 No
Pr Package AC Plant (only Operation)	
7 TR Precision AC Units for 5ESS	3 Nos
7 TR Precision AC Units for OCB	4 Nos

SCOPE OF WORK

Scope of the work covers the following:

- 1. Comprehensive maintenance of Split type AC units and pumps
- 2. Replacement of faulty components in EI & Fans and compound lighting
- 3. Monitoring of operation of HPAC plants
- 4. Operation of substation and DG sets
- 5. Checking the healthy condition of FAP on a daily basis and reporting

METHODOLOGY

- 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 / Maintenance 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.
- 3) 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.
- 4) 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 Annexure-X at the end of each month as per maintenance schedule vide Annexure-V A to N. and Firm Shall Maintain Log Book as per Annexure VI to IX
- 5) Firm Shall submit bills along with a Certificate as per Annexure XI
- 6) 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..
- 7) 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.

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 shift	Site of
substation,	Skilled	competency	for three shifts per	operation
E/A sets,		certificate.	day.	
C/L and				
Pump				

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.

COMMERCIAL

- The workers engaged by firm should maintain proper discipline and good behavior with occupants.
- The firm shall remove such workers from the site whose behavior improper, Executive Engineer's decision shall be final.
- Any damage to the Installation(s) / Building during the maintenance period due to the carelessness on the part of maintenance staff shall be the responsibility of firm & be replaced /rectified without any extra cost.
- The agency will provide the workers necessary T & P, Testing & safety equipments.
- Any accident of damage during maintenance / operation will be the responsibility of the agency & the Department will not entertain any claim. Compensation, Penalty etc. on this account of non observances of any other requirement of law relevant to his work.
- Agency has to observe all the labour rules & regulations in force.
- The agency has to supply details as per Annexure I of all the workers likely to be engaged by him before start of the work and get it approved by Executive Engineer.
- 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.
- Dismantled materials shall be returned to the BSNL except those items for which the replacement is supplied by the agency.
- 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.
- The Tenderer must obtain himself at his own expenses all the information necessary for the purpose of tendering.
- Inspect the site & acquaint himself with all local conditions, means of access to work & nature of work etc. no claims shall be entertained on these accounts.
- The rates quoted must be full & final, [Inclusive of all charges like fixing / laying of department materials, making good the damages etc.]
- Nothing extra is payable other than the quoted rates unless specified.
- The contractor shall not sublet the work or part thereof. However, services of specialized agencies for specific work can be obtained.
- The firm shall maintain the Installation(s) in such a way as to provide uninterrupted working of AC plant the exchange / Bldg. In case of Ac plant failure of more than 1 hour in a day, the firm can be penalized if this is on account of carelessness on the part the Contractor. The decision of EE (E) shall be final.
- The firm at his own cost should arrange the sitting arrangement for the staff engaged by them. The space, water, Telephone & electricity shall be made available by the Department at free of cost.

- 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.
- The contractor has to keep all the Electro mechanical equipment at site neat and clean to avoid any accident and fire hazard
- Since the firm will be doing the maintenance and operation of AC plant, responsible & trained person(s) should be placed round the clock at site who could take initial steps under emergency situation.
- Firm should have round the contract telephone number. In case of Emergency contractor and authorized engineer supervisor shall be available at site on short notice from engineer-in-charge and make efforts to make the situation normal at the earliest.
- A complaint book as per **Annexure-IV** shall be kept up to date at site by the firm and the same shall be available for checking & verification.
- The staff engaged by the firm shall bear I-Card issued by the firm, while on duty.
- After the contract period is over the Installation has to be duly handed over to the BSNL. The contractor shall be responsible for any discrepancies vis-à-vis, the status of installation at the start of work plus any modification carried out during the currency of the contract.
- Any defects, and shortcomings brought to the notice of the department at the time of the taking over of the site by the contractor from the earlier agency or from the BSNL shall be the responsibility of the Dept.
- 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.
- Contractor has to observe all the labour rules and regulations in force & BSNL shall not be liable for any default.
- 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.
- BSNL is having right to pre close the agreement in special cases with one month notice without assigning any reason.
- BSNL is having the right to curtail the quantity according to the requirement

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. <u>General</u>

- 1. Crimping tool suitable for 6 Sq.mm To 300 Sq.mm Cable.
- 2. LT mugger
- 3. HT mugger
- 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.

PENALTY CLAUSE

- 1. 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
- 2. 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.
- 3. If the agency fails to rectify any fault within reasonable time, the department reserves the right to carry out the work at the risk and cost of the agency. In case the fault is of emergency nature which may affect the normal functioning of the services and the firm fails to take immediate necessary action, the work shall be carried out the risk and cost of the firm without giving any notice. The decision of the EE(E) shall be final
- 4. In case of unsatisfactory performance during this period one Percent (1%) penalty of the bill amount shall be imposed.
- 5. For repeated unsatisfactory performance during the contract period penalty up to 5% of bill amount shall be imposed. Decision of Executive Engineer (E) shall be final on this account.
- 6. In case of absence of worker from the duty on any day, penalty shall be made @ double prorata basis as applicable per person per shift. (Staff employed of less than the prescribed qualifications/ non-obedient workers deployed at site, in spite of written instructions to remove such persons from site, shall be treated as absent). The Decision of the Executive Engineer shall be final & binding.

PENALTY FOR DEFICIENCY IN SERVICE:

SERVICE	SERVICE CONDITIONS	PENALTY FOR DEFICIENCY IN SERVICE
Pumps & S/T AC	Faults pending more than 48 hours (Affecting the performance)	Rs. 500/- per day

Note:-

1. In case contractor fails to comply with preventive/ periodical maintenance schedules for AC units/ services, payment for such services for that particular period will not be

made. In addition penalty of 25% of one month's bill amount for such units/services shall be imposed.

- 2. In case of a major accident/loss on account of negligence on the part of the contractor, the contract shall be terminated and 10% of the estimated cost shall be recovered. Decision of Executive Engineer (E) shall be final and binding on the contractor.
- 3. Repair etc. of faulty equipment for which comprehensive maintenance is included, if not done by the firm, will be got done at the risk & cost of firm, beyond 7 days of continuing failure, without further notice. The decision of EE (E) shall be final in this regard.
- 4. Notwithstanding the compensation clause described above, BSNL reserves the right to take necessary steps for maintenance of the services at the risk and cost of the contractor within two day's notice or as decided by the Engineer-in-Charge, depending upon the graveness of the situation attributed to the contractor. BSNL also reserves the right to carryout scheduled maintenance activity, if not done by the agency, at its risk & cost.

Name of Work: Operation and Maintenance of Electromechanical services at Telephone Exchange,

Kellys, Chennai (For 2 months) SPECIFICATION

ELIFICATION EI & FANS

Part-I: Scope of Maintenance:

- Ensuring that EI installation is always kept in clean, healthy working condition.
- Attending day-to-day routine complaints in the prompt and satisfactory manner.
- Ensuring that no breakdown, in power supply takes place and in case it happens to take all required steps including contacting supply co. for earliest restoration.
- Maintaining the installation i.e. fans fittings and other components of the installation in clean condition including proper sign writing.
- Ensuring that there is no wastage of electrical energy. Details of steps to be taken in this regard to worked out in consultation with the maintenance in charge.
- Carrying out minor additions and alternations order by Engineer in charge (Materials required shall be supplied by the BSNL)
- Carrying out various maintenance routines and test as stated in part III.
- Maintaining Registers for complaints and test results.
- In case of staff quarters, scope of maintenance is limited to the wiring and accessories as per the standard yard stick of the department and shall not cover the additional / alterations carried out by the occupants.

Part II Tasks To be Performed within first 15 days.

Following items should be carried out within first 15 days.

- Establish an Enquiry office and organize a system with the approval of Engineer in charge so that complaints can be received and attended properly.
- Measurement of the resistance of Earth Stations of EI System and checking of the continuity of earth conductor. Results to be recorded.
- Preparing an inventory of materials to be kept at site for prompt maintenance in consultation with Engineer-in-Charge. Materials for all the services to be considered for preparation of inventory.
- Inspection of Main board & SDBs for (a) any loose./improper connection (No strand cutting for making connection to be allowed), (b) improper rating of switches /fuses/(c) Cleanliness.
- General inspection of EI system to identify shortcoming. Also any other relevant aspect, which may come in the way of proper maintenance, should be recorded in Register and also brought to the notice of Engineer-in-charge
- Insulation Test.

Part III Maintenance Schedule to be followed

- i) Testing of Earthing state for earth resistance and continuity After every six months of initial testing.
- ii) Inspection of MB & SDB-every month after initial testing.
- iii) Insulation test of MB & SDB-every month after initial testing.
- iv) Greasing and oiling of fans, fitting etc on regular basis so that installation is always clean.
- v) Broken/incomplete louvers of fittings, switch plates etc. to be attended at the earliest.

Note : Materials required for minor additions and alterations shall be supplied by the BSNL.

COMPOUND LIGHTING

Part – I: Scope of Maintenance

- Ensure that the compound lighting installation is always kept clean, and in healthy condition.
- Attending day-to-day routine complaints in prompt and satisfactory manner.
- Ensure that there is no wastage of electrical energy and lights do not remain switched on when not needed.
- Carrying out various maintenance routine and test as stated below.

Part-II: Tasks to be performed within first 15 days.

- Inspecting the entire installation comprising of control switches, cable, poles fittings, lamps and earthing for any short comings. Recording the same and bringing it to the notice of Engineer-in-charge
- Checking earthing system for proper efficiency.
- Checking the connections for any loose/improper connecting (no strand cutting for making a connecting to be allowed).

Part – III: Maintenance schedule to be followed.

- Cleaning of fittings on a regular basis so that fittings are always in clean condition.
- Checking earthing system after every six months of initial check.
- Checking for proper electrical connection after every six months of initial check.

<u>PUMP</u>

Part - I: SCOPE

In case of water supply pumps the scope covers not only the proper maintenance of the pumps but also ensuring that water supply is available in the building. The pumps have to be operated as and when required for ensuring water supply.

- Keeping the system comprising suction lines pumps discharge line & Electrical panel in healthy and clean condition.
- Desilting of bore wells not in the scope of contract.
- Following maintenance schedule as given below.

Part - II : TASKS TO BE PERFORMED WITHIN FIRST 15 DAYS

- The entire installation should be checked for efficient functioning and shortcoming if any pointed out.
- The earth system should be checked for Earth resistance and continuity.
- The agency should discuss and finalize the working schedule of the pumps for operation.
- Should familiarize with the location of under ground tanks overhead tanks and functioning of various valves.
- Check electrical system for proper contacts and cleanliness.
- Leakages in pumps, pipe line etc.

Part-III : MAINTENANCE / OPEARATION SCHEDULE

- To monitor on daily basis that the system is in healthy working condition, leakage & breakage and malfunctioning of safety devices to be attended.
- Pumps to be operated for ensuring water supply in the building blocks.
- On daily basis check for :
 - (i) abnormal heating of the pump sets.
 - (ii) abnormal noise
 - (iii) gland leakages
- Check alignment of pump motor quarterly.
- Measure earth values at six month interval after last test.
- Log book detailing pumps operation time to be maintained.

Part - IV : MATERIALS

All the materials required for carrying out maintenance with the exception of following shall be arranged by contractor at his own cost.

- (i) Replacement of pumps
- (ii) Replacement of Motor
- (iii) Replacement of Suction / delivery lines.

FIRE DETECTION (Operation Only)

Part - I: SCOPE OF MAINTENANCE

- To ensure that complete fire detection system is always clean and in healthy working condition.
- Perform daily checks as per part III.
- To perform tasks subsequent to a real alarm situation as per part III.

If any fault / discrepancies are found report immediately to JTO (E) / SDE (E) and Coordinate with concerned agency for earlier clearance of fault / Discrepancies.

Part - II: TASKS TO BE PERFORMED WITHIN FIRST 15 DAYS

• Familiarize the maintenance personnel with the Fire Detection and Alarm System and their responsibility in consultation with maintenance in charge.

• Inspect the complete system for proper functioning. Any shortcoming noticed should be recorded and brought to the notice of Engineer-in-charge.

Part - III: MAINTENANCE SCHEDULE TO BE FOLLOWED

(1) Check working of PA system on daily basis.

- (2) Check working of F/D system from the control panel on daily basis.
- (3) Check battery for proper charge, water level & clean contacts on daily basis

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 lub 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 lub 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.

<u>Monthly:</u>

- 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 mugger 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)

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	Periodical Schedules/ Maintenance Activity	V- A to N
4	Log Book for Sub Station	VI
5	EB Bill register	VII
6	Log Book for EA set	VIII
7	Log Book for HPAC Plant	
8	Format of Abstract of actual periodical maintenance carried out in the quarter ending	IX
9	Certificate to be submitted along with each bill	Х

Annexure - III

A. Details to be supplied before starting the work

1.	Name of the Agency (with Office address & E-mail Address)
2.	Name of the Proprietor
3.	Telephone No.(s) of the firm
4.	Name & Address of the Supervisor
5.	24 Hours contract No.
6.	Particulars of the License/

B. Details of the Staff to be posted at site

	Name & Address	Qualification	Responsibility
1			

Annexure – IV

			-							
<u>COMPLAINT REGISTER</u>										
Officer / Sections lodging complaint	Nature of complaint	Date & Time redressal of complaint	Acknowledgement of rectification by complaint	Remarks						

Annexure – V-A

MAINTENANCE SCHEDULE-CEILING FAN

			FREQUENC	-YEARLY	(FEB)			
Location	No. of Ceiling Fans	Hanging arrangement i/c hook safety pins check nuts etc	Check Greasing (if required)	Painting Is reqd. or not	Fans Working OK	Sign. of AWM / WM	Sign. of Occupant	Sign. of JTO

Annexure – V-B

MAINTENANCE SCHEDULE – EXHAUST FAN

FREQUENCY – HALF YEARLY (FEB./AUGUST)

Location	No. of Exhaust Fans	Mounting Arrangement	Condition Of Louvers OK/not OK	Painting Is reqd. or not	Fans Working OK/not OK	Sign. of AWM/ WM	Sign. of Occupant	Sign. of JTO

Annexure – V-C

MAINTENANCE SCHEDULE – WALL/CEILILNG MOUNTD TYPE FITTINGS FREQUENCY – HALF YEARLY (MAY/NOV.)

Location	No. of Fittings	Cleaning	Check whether Fixing Arrangement is sound or not	Painting Is reqd. or not	Remarks	Sign. of AWM/ WM	Sign. of Occupant	Sign. of JTO

Annexure – V-D

MAINTENANCE SCHEDULE – BUILDING AND COMPOUND LIGHT FREQUENCY – HALF YEARLY (MAY/NOV.)

Location	No. of Fittings	Check Wirring	Any Defect/ shortcoming noticed	Remarks	Sign. of AWM/ WM	Sign. of JTO

Annexure - V - E

MAINTENANCE SCHEDULE – SWITCH BOARD FREQUENCY – HALF YEARLY (FEB./AUGUST.)

Location	Cleaning the switch board & ensure that all connections are tight i/c earth and also plate is properly fixed	Checked & attended all items	Items to be attended	Remarks	Checked by
Į.					

Annexure – V-F

MAINTENANCE SCHEDULE-SDB'S

FREQUENCY- HALF YEARLY (APRIL/OCT)

Location	Cleaning	Replacement	Painting	Remarks		Sign of	Sign of
	and	of faulty	& sign		AMW/	occupant	JTO
	tightening	MCB's Fuse	/ writing		WM		
	connectio	ns Fuse Base	if req	d.			
		grip if any	/)				

Annexure – V- G

MAINTENANCE SCHEDULE - SAFETY MATS & TOOLS

FREQUENCY - MONTHLY (I WEEK)

Location	Condition ok or not ok	Cleaning	All tools available not (repeat if reqd.)	Condition of tools & glove ok or not ok)	Remarks	Sign. of AWM/WM	Sign. of JTO

Annexure – V-H

MAINTENANCE SCHEDULE – FIRE ALARM SYSTEM

FREQUENCY – DAILY

S. No	Description of Item	MONDAY TO SUNDAY	Remarks
1.	Check the power supply position of all the panels placed at various floors & buildings		
2	Check the LEDs or panels through lamp test switch		
3	Check the healthiness of battery from battery low indication on panel		
4	Check any fault if indicated on any or the panels		
5	Check Operational readiness of the system during mains failure		
6.	Cleaning the control panel and surrounding		

Annexure – V-I

WINDOW/SPLIT AC UNITS MAINTENANCE CARD/ SERVICE REPORT FORMAT

AC UNIT MAINTENANCE CHART TO BE PLACED NEAR EACH AC UNIT.

-WINDOW/SPLIT AC UNITS MAINTENANCE CARD FORMAT (W-1) FRONT SIDE OF CARD

SITE/LOCATION: -AMC FIRM:-

EOUIPMENT: - FIRM'S PH NO:-

CAPACITY: ----

JTO (E)'S PH NO:-

MAKE & SL NO: - SDE (E)'S PH NO:-

DATE	TYPE OF MAINTENANCE DONE	sign of Mechanic / Electrician	REMARKS	Sign of BSNL officers

BACK SIDE OF CARD

DATE	NATURE OF COMPLAINT	ATTENDED ON	FAULT CLEARED /	IF NOT, REASONS	sign of Mechanic	REMARKS
			NOT			

MONTHLY SERVICE REPORT FOR WINDOW/SPLIT/SLIMLINE/CASSETTE TYPE AC UNITS

Monthly service details for the month of

· · · · · · · · · · · · · · · · · · ·		
Floor	_	_
Location	-	-
Unit type	-	-
Capacity	-	-
Description		
Electrical System	-	-
Plug & socket condition (OK/Nok)	-	-
Current (amps)	-	-
Condition of starting relay (OK)	-	-
Condition of starting capacitor(Ok)	-	-
Tightness of connections(OK)	-	-
Earthing (Tight)	-	-
Condition of starter & stabilizer (working/ Not)		
Condition of remote (Available/ Not Available)(Working/Not	-	-
Working)		
<u>Control system</u>	-	-
Thermostat(working	-	-
temperature set(degrees)	_	-
Refrigeration System	_	-
	-	-
Refrigeration System	- - -	- - -
Refrigeration System Compressor (Working, Any noise)	- - -	- - -
Refrigeration System Compressor (Working, Any noise) Condenser/cooling coil		- - -
Refrigeration System Compressor (Working, Any noise) Condenser/cooling coil Capillary tube(OK/Not Ok)	- - - -	- - - -
Refrigeration System Compressor (Working, Any noise) Condenser/cooling coil Capillary tube(OK/Not Ok) Gas leakage (observation) Air Circulation System Evaporator Fan (Ok/Not)	- - - - -	- - - - -
Refrigeration System Compressor (Working, Any noise) Condenser/cooling coil Capillary tube(OK/Not Ok) Gas leakage (observation) Air Circulation System	- - - - - - -	- - - - - -
Refrigeration System Compressor (Working, Any noise) Condenser/cooling coil Capillary tube(OK/Not Ok) Gas leakage (observation) Air Circulation System Evaporator Fan (Ok/Not)	- - - - - - -	- - - - - - - -
Refrigeration System Compressor (Working, Any noise) Condenser/cooling coil Capillary tube(OK/Not Ok) Gas leakage (observation) Air Circulation System Evaporator Fan (Ok/Not) Condenser fan(Ok/Not) Ventilation & Exhaust Filter/condition(Cleaned)	- - - - - - - - -	- - - - - - - - -
Refrigeration System Compressor (Working, Any noise) Condenser/cooling coil Capillary tube(OK/Not Ok) Gas leakage (observation) Air Circulation System Evaporator Fan (Ok/Not) Condenser fan(Ok/Not) Ventilation & Exhaust Filter/condition(Cleaned) Drain pipe (any loose connection/ leakage)	- - - - - - - - - -	- - - - - - - - - -
Refrigeration System Compressor (Working, Any noise) Condenser/cooling coil Capillary tube(OK/Not Ok) Gas leakage (observation) Air Circulation System Evaporator Fan (Ok/Not) Condenser fan(Ok/Not) Ventilation & Exhaust Filter/condition(Cleaned)	- - - - - - - - - - - -	- - - - - - - - - - -

Sign of AC mechanic

Note: While checking for this item i.e. Window/split unit in a particular room/area please look around and see whether other electrical items like fittings, switch board, sockets etc are generally in proper working condition or not. If not initiate action.

Annexure - V -J

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DAILY MAINTENANCE ACTIVITY

Daily maintenance activity	Т	ime 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 – V-K

PERIODICAL SCHEDULES (CHECKS) Note: The periodical schedule sheets shall be suitably placed in the log book itself.

A. MONTHLY REPORT

E	A 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			

	exure – V-L JBSTATIONS	
Check capacitor panel for proper auto functioning	OK/ Not OK	
Check of colour of breather, if 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 mats, cleaning and their physical condition	Ok/ Not OK	
Checking of earths-watering earth pits	Done/ Not done	

Annexure – V- M

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.

Annexure – V-N

CAPACTIOR PANEL

SI. No	Description of Items	Activity Carried out	Sign of operator	Sign of JTO(E)	Remarks
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 VI

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:_____

	HT	PANEL		TRANSFO	ORME	R 1						TRANSFOR MER 2	POW MEA		MENT		OR	GE
Time	/OLTAGE	URRENT	ECORDED	HT Current	Ľ	T Volta	ige	LT	Curre	ent	mperature	Same as for transformer 1	KWH	KVAH	KVARH	ΡF	OF OPERAT	OF EXCHAN STAFF
	HT Λ	HTC	MD R		RY	ΥB	BR	RY	ΥB	BR	Ter						SIGN	SIGN
10.00																		
12.00																		

^{# 1.} READINGS SHALL BE TAKEN EVERY TWO HOURS UNLESS OTHERWISE SPECIFICED

EB BILL REGISTER

Annexure VII

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

Contractor

^{1.} THE ABOVE IS GENERIC COLOUMNS AND ANY OTHER COLOUMNS / DATA COLLECTION SPECIFIC TO SITE SHALL ALSO BE RECORDED IF INSTRUCTED BY SDE(E)

ANNEXURE VIII

LOG BOOK FOR E/A SET AT _____

Name of work: Name of contractor:

LOG BOOK FOR EA SET RUNNING OR THE MONTH OF

Date	set No.	Start time	Stop time		Voltage			Load Current		Freq	Speed	Lub oil Temp	Lub oil Pr.	er Temp	Diesel level	Ltrs		
	E/A	Hrs	Hrs	RY	YB	BR	R	Y	В	Hz	RPM		Kg/c m2	Water	Start	Stop	Start	Stop

LOG BOOK FOR HPAC Plant (Only Monitoring) ANNEXURE IX

Date/Time		5ESS Plant		OCB Plant				
	No of AC Units working	SI No of AC units working	Switch Room Temp	No of AC Units working	SI No of AC units working	Switch Room Temp		
00.00 hrs								
03.00 Hrs								
06:00 hrs								

Note: Only Printed Log books shall be used at site

ANNEXURE -X CERTIFICATE TO BE SUBMITTED FOR MONTHLY SCHEDULED ACTIVITIES

Name of contractor: ______.

Agreement No. : ______.

Site

:

Certificated that Monthly/Quarterly/halfly/Yearly Maintenance for Month of -------- -----have been carried out properly as per Maintenance schedule (Annexure –IX) and as per terms and condition of the agreement and i/c testing/drills etc. required during the period has been performed. Except the following due to the reasons mentioned against the respective item:

SI.No	ITEM/SERVICES	REASONS FOR NON OPERATION

Contractor's representative	Exchange In- Charge	JTO(E)
		•••(-)

SDE(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:

SI.No	ITEM/SERVICES	REASONS FOR NON OPERATION

- 2. 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)

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.
- No advance payments can be made. The payment is governed by the normal department practice 3) 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.

INCREASE /DECREASE OF TENDERED QUANTITY 1(i)

- BSNL will have the right to increase or decrease up to 50% of the quantity of goods a) 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 guantity 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 1/8th of the whole of the work before 1/8th of the time allowed under the contract has elapsed, 3/8th of the work before half of the time has elapsed and 3/4th of the work before 3/4th 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.

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 noncomplying 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) <u>CO-ORDINATION AT SITE</u>

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). <u>COMPLETION DRAWINGS/Log Book</u>

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) <u>SUFFICIENCY</u> 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) <u>Test</u> Certificate

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

- Technical catalogues of Engine & alternator
- Manufacturer's Original 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.

LIST OF APPROVED MAKES-BSNLELECTRICALWING

S.	Item	AS ON 29.02.2010) Makes
No.		
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	ABB / Schneider Electric /Andrew Yule /
	/ Dry type) a) Above 400 KVA	Bharat Bijlee / Crompton / EMCO /Kirloskar / Siemens
	b) Up to 400 KVA	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	Crompton / Havells / Indokopp / MDS
	/ELCB/RCCB/	Legrand / L&T / Schneider Electric/
	Distribution Board	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	ISI mark
	conductor wire	
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 / Pilkingston / UP Twiga
33	Expanded Polystyrene	BASF(India) Ltd.
34	Gauge	Feibig / H.Guru / Pricol
35	Controls	FLICA / Honeywell / Indfoss / Penn- Danfoss / Ranco / Ranutrol / Sporland
36	Fine Filters	Anfiltra Effluent / ARW / Athlete/ Airtake / Dyna / Kirsloskar/ Puromatic/ Purafill/ Purolator / Tenacity
37	GI Sheet	HSU Jindal / National / Nippon Denro / Sail / Tata
38	Heat Detector	Appollo / Chemtron/ Edward / Fenwal/ Hochiki / Nitton /System Sensor/ Wormald/Honeywell Essar/Notifier
39	Ionization Detector	Appollo / Cerebrus / Edward/ /Fenwal / Hochiki / Nitton / System Sensor /Wormald
40	Photo Electric Smoke Detector	Appollo / Cerebrus / Edward / Fenwal/ Hochiki / Nitton / Wormald /System Sensor
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, 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.

LIST OF INDIAN STANDARDS

- I.S.277 Galvanized steel sheets.
- I.S.325 Three Phase Induction Motors
- I.S.655 Metal Air Ducts
- I.S.732 Code of Practice for Electrical Wiring and fittings for Buildings.
- I.S.778 Gun Metal Gate, Globe and Check Valves for general purposes.
- I.S.900 Code of Practice for Installation and Maintenance of Induction Motors.
- I.S.996 Single Phase small AC and Universal Motors.
- I.S.1239 Mild Steel Tubes, G.I. Pipes, Tubular and other wrought steel fittings.
- I.S.1248 Direct Acting Electrical Indicating Instruments.
- I.S.1520 Horizontal Centrifugal Pumps for clear, cold and fresh water.
- I.S.1554 PVC Insulated (heavy duty) Electrical Cables
 - (Part-I) for working voltages upto and including 110 volts.
- I.S.2372 Timber for cooling towers.
- I.S.2516 AC Circuit Breakers.
- I.S.2592 Recommendation for Methods of Measurements of Fluid flow by means of Orifice Plates and Nozzles.
- I.S.1822 Motor Starters of Voltage not exceeding 1000 volts.
- I.S.2208 HRC Cartridge Fuse Links upto 650 volts.
- I.S.3589 Electrically welded steel pipes for water, gas and sewage.
- I.S.3624 Bourden Tube Pressure and Vacuum Gauges.
- I.S.4047 Heavy Duty air break switches and composite units of air break switches and fuses for voltage not exceeding 1000 volts.
- I.S.6392 Steel Pipe Flanges.
- I.S.7403 Code of Practice for Selection of Standard Worm and Helical Gear Boxes.
- I.S.8148 Specification for packaged air conditioning.
- CPWD General Specifications for Heating, Ventilation & Air conditioning (HVAC)-2004

IMPORTANT NOTE

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

LIST OF SAFETY STANDARDS

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

PROFORMA OF SCHEDULES

(Operative Schedules to be supplied separately to each intending tenderer) <u>SCHEDULE 'A'</u> Schedule of quantities : Attached <u>SCHEDULE 'B'</u> Schedule of materials to be issued to the bidder: Nil <u>SCHEDULE 'C'</u> Tools and plants to be hired to the bidder: Nil <u>SCHEDULE 'D'</u> Extra schedule for specific requirements/documents for the work, if any: Nil <u>SCHEDULE 'E'</u> Schedule of components of Materials, Labour etc. for escalation: Nil <u>SCHEDULE 'F'</u> Reference to General Conditions of contract : Name of work:

Nume of Work.	
Estimated cost of work:	As per NIT notification page
Earnest money:	
Security Deposit and performance Guarantee	

Executive Engineer (E) Electrical Division-I

Executive Engineer (E), ED-I,

EE (E), BSNL Electrical-I, Chennai

Chennai

Chennai

10% (TEN)

General Rules & Directions: Officer inviting tender:

Definitions:

- 2(v) Engineer-in-Charge
- 2(vi) Accepting Authority
- 2(x) Percentage on cost of materials and labour to cover all over heads and profits

CLAUSE 5

	Time allowed for execution	TWO Months				
	Authority to give fair and reasonable extension of time for completion of work:	SE (E), EC, Chennai				
	Competent Authority for deciding reduced rates:	SE (E), EC, Chennai				
Clause	25					
	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: **IV, 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 up to maximum of percentage mentioned in clause 12.3 of the tender form and those in excess of that limit at rates to be determined in accordance with provisions contained in clause 12.2.
- 6. I/we agree to furnish to BSNL, Deposit at Call receipt/FDR/ Bank guarantee of a 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 therefrom 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 abov	e tei	nder	(as	modi	fied	by you	as	provid	ed in	the	lett	ers	ment	ioned	hereun	der)	is
accepted	by	me	for	and	on	behalf	of	BSNL	for	a su	ım	of	Rs.				
(Rupees_)			
The letter	s refe	erred	to b	elow	shall	form pa	art o	f this c	ontra	ct Agı	reen	nent	:				
a)																	
b)																	

For & on behalf of BSNL

Dated

Signature : Designation :