

BHARAT SANCHAR NIGAM LIMITED

(A Government of India Enterprise)

O/o THE EXECUTIVE ENGINEER (ELECTRICAL), BSNL ELECTRICAL DIVISION, DOOR SANCHAR BHAWAN (3RD FLOOR), UNIT-IX, BHUBANESWAR-751 022

NIT NOTIFICATION

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

Sl. No.	Name of work	Estimated cost.(Rs.) including GST	EMD (Rs).	Time	NIT No.
1	Provision of power supply arrangement to upcoming BTS site from existing transformer substation by laying of 4 x 16 sqmm power cable, sub-metering arrangement & associated work at RI Training Institute, Bhubaneswar.	135293.00	2706.00	10 days	30/BSNL-BSR/20-21
A/A & E/S Reference					
T/S No.		31/BSNL-EDB/20-21			
Tender paper cost (Non refundable) Rs.		590.00			
Last Date of receipt of application:-		24.09.2020	(upto 4.00PM)		
Last Date of tender paper sale:-		24.09.2020	(upto 5.30PM)		
Last Date of tender paper receipt:-		25.09.2020	(upto 3.00PM)		
Date of opening:-		25.09.2020	(after 3.30 PM)		



Eligibility Criteria :-

1 **BSNL enlisted contractors in Electrical category of respective class with valid electrical licence as per their tendering limits.**

2 **All other terms & conditions as per BSNL EW-6 and BSNL EW-8 form.**

3 The tenderer shall submit the tender in 2 sealed covers marked as cover 1 st and 2nd inscribing the name of work. Both should be separate & they should not be enclosed in common third cover. The first cover should contain the earnest money deposited in the shape of demand draft /pay order of a schedule bank/nationalised bank/state bank guaranteed by Reserve Bank of India drawn in favour of **A.O(CASH), BSNL, O/o The GMTD, Bhubaneswar**. In case submitting tender down loading from web site , the 1 st cover should contain DD towards cost of tender document and EMD drawn in favour of **A.O(CASH), BSNL,O/o The GMTD, Bhubaneswar** along with attested copy of eligible criteria. The second cover contains the tender documents, if the 1 st cover is not annexed in proper form, the second form containing tender will not be opened at all.

Note :- I) The company or firm or any other person is not permitted to tender for work in BSNL unit in which his/her near relative(s) is(are) posted .

4 If the date of opening is declared as holiday, then the tender shall be opened on next working day.

5 The tender documents shall not be sent through courier /post. The tender documents received through courier/ post shall not be opened / considered at all.

LIST OF MANDATORY SELF ATTESTED DOCUMENTS TO BE SUBMITTED WITH THE TENDER (1st COVER)

(1) Demand Draft/Pay Order/Banker's Cheque /FDR/TDR/BG of any Nationalized/ scheduled bank in favour of "Accounts Officer (Cash), BSNL, O/o the GMTD, Bhubaneswar" towards EMD

(2) DD/Pay Order/Bankers Cheque of a Nationalized / Scheduled Bank in favour of "Accounts Officer (Cash), BSNL, O/o the GMTD, Bhubaneswar" towards tender cost.

(3) Documentary proof of satisfying eligibility conditions as per sl. no.1 of above.

(4) PAN card issued by Income Tax Department, Govt of India.

(5) Valid GST Registration Certificate issued by statutory authority.

No:-PLG-04/BSNL-EDB/20/229

Dt. 14/09/2020

- 1) The C.E(E), BSNL Electrical Odisha Zone, Bhubaneswar
- 2) The Executive Engineer(E) BSNL Electrical Division, Sambalpur.
- 3) The Executive Engineer(E) BSNL Electrical Division,Cuttack
- 4) The Vigilance Officer O/o the CGMT Orissa Circle, Bhubaneswar.
- 5) The Accounts Officer, BSNL Electrical Division, Bhubaneswar.
- 6) The Notice Board.
- 7) Contractors

Executive Engineer (E), BSNL Electrical Division, Bhubaneswar.

NOTICE INVITING TENDER

CPWD - 6

BHARAT SANCHAR NIGAM LIMITED
(A Govt. of India Enterprise)

Item rate tenders are invited on behalf of the BSNL from eligible contractors for the work of :-

Provision of power supply arrangement to upcoming BTS site from existing transformer substation by laying of 4 x 16 sqmm power cable, sub-metering arrangement & associated work at RI Training Institute, Bhubaneswar.

The work is estimated to cost Rs.

135293.00

This estimate however is given merely as a rough guide.

1) Tender will be issued to

Please refer eligibility criteria

2) . Agreement shall be drawn with the successful tenderer on prescribed form no. 8 which is available as a Govt. of India publication, tender shall quote his rates as per various terms and conditions of the said form which will form part of the agreement .

3) . The time allowed for carrying out the work will be

10 days

4) . The availability of individual site will be specified in the award letter.

5) . Receipt of applications for issue of forms will be stopped by 1600 Hrs. **two days before the date fixed for opening of tenders.** Issue of tender forms will be stopped **One day before the date fixed for opening of tenders.**

Tender documents consists of plans , specifications, the schedule of quantities of the various classes of work to be done and the set of terms and conditions of contract to be complied with by the whose tender may be accepted and other necessary document can be seen in the office of the Executive Engineer (E),BSNL ELECTRICAL DIVISION , Bhubaneswar between 11.00 AM & 04.00 PM every day except on Sunday and public Holiday. Tender documents, excluding standard form, will be issued from his office , during the hours specified above on payment of Rs. **590.00** only in DD.

6) . The tender must produce an Cartered Accountant certificate in the revised form as modified under Ministry of Finance O.M. No. 67/30/69/ITAL dated 02.07.1970 as amended from time to time before tender papers can be sold to him.

7). Tenders, which should always be in sealed envelope, with the name of work and due date written on the envelope, will be received by

Executive Engineer (E), BSNL Electrical Division, Bhubaneswar.

up to 03.00 PM on

25.09.2020

and will be opened by him or his suthorized representative in his office

on the same day at 03.30 PM.

8) The tender shall be accompanied by earnest money of Rs.

2706.00

in the form of DD of a scheduled Bank issued in favour of

Accounts Officer(CASH), BSNL, O/o The GMTD, BHUBANESWAR, the amount being credited to Nationalized Bank / State Bank .

9). The description of the work is a follows :-

Name of the work :-

Provision of power supply arrangement to upcoming BTS site from existing transformer substation by laying of 4 x 16 sqmm power cable, sub-metering arrangement & associated work at RI Training Institute, Bhubaneswar.

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

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools, plants, water, electricity access, facilities for workers and all other service required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and conditions and rates at which stores, tools and plants, etc. will be issued to him by the department and local conditions and other factors having a bearing on the execution, of the work.

1. The competent authority on behalf of the BSNL 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 tenderers in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.**

The public enterprises that avail benefits of the purchase preference should be subjected to adequate penalties for cost overruns etc.

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

3. The competent authority on behalf of BSNL reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

4. The contractor shall not be permitted to tender for work in the BSNL (responsible for award and execution of contracts) in which his near relative is posted as divisional accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the BSNL or in the Ministry of communication. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

5. No Engineer of gazetted rank or other gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of two years after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractor's service.

The tender for the works shall remain open for acceptance for a period of ninety days from the date of opening of tenders. If any tender withdraws his tender before the said period or makes any notifications in the terms and condition of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money as aforesaid.

6. This Notice Inviting Tender shall form a part of the contract document. The successful tenderer / contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work sign the contract consisting of :-

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

b) Standard C.P.W.D. form 8.

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Near relative(s) of BSNL employee not permitted to tender :

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 Arch / Corporate office for non-executive employees and all SSA in a circle including circle office / Chief Eng. / Chief Arch. / Corporate office for executive employees (including those called as Gazetted officers at present).

Therefore, it has been decided by the competent authority that a clause must be added in the tender and other related documents that the tenderer should give a certificate that none of his / her such near relatives is working in the units as defined above where he is going to apply for tender.

work .In case of proprietorship form certificate will be given by the proprietor , for partnership firm certificate will be given by the partners and in case of limited company by all the directors of the company.

Any breach of these conditions by the company or firm or any other person, the tender / work will be cancelled and earnest money / security deposit will be forfeited any stage whenever it is so notices. The department 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.

FORMAT OF THE CERTIFICATE TO BE GIVEN BY THE FIRM/ PERSON:

I _____ S/O _____ R/O _____
here by certify that none of my relative(S) as defined below is/ are employed in BSNL unit as per details given in the tender documents. In case at any stage, it is found that the information given by me is false / incorrect, BSNL shall have absolute right to take any action as deemed fit / without any prior intimation to me.
a) Members of Hindu Undivided family,
b) They are husband and wife,
c) The one is related to the other in the manner as father, mother, son(s) & son'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).

Signature of the firm / person.

DECLARATION

I (full name of Tenderer) hereby declare that I am fully aware of the terms and conditions of contracts for work presently prevailing in the Civil Wing of BSNL . I also declare that, I have thoroughly gone through the terms and agreements as contained in various clauses and Sub - Clauses of terms P.W.D. - 8 l/c up to date amendments therein . I (full name of contractor) further declare that while submitting the tender for
.....
.....(full name of work).

I fully agree to abide by the aforesaid terms and conditions of the contract and shall be bound to enter into the agreement in case my tender is accepted.

I undertake to bear all liabilities i.e. duties etc. arising out of 46th amendments of constitution of India.

Date :-

(Full signature of the tenderer)

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GENERAL SPECIFICATIONS.

- 1) The work shall be carried out as per current department / CPWD specifications.
- 2) Layout of the work shall be given at site of work by the Engineer - in Charge or his duty authorized representative.
- 3) Samples of the all articles shall be got approved from the Engineer - in Charge before they are used.

- 4) The work shall be supervised by the qualified supervisor from the contractor's side.
- 5) Any damage done o the building / equipment of the department shall be made good by the contractor without any extra cost.
- 6) No T & P shall be issued to the contractor by the department.
- 7) Testing shall be done in the presence of the Engineer - in - Charge or his duly authorized representative.
- 8) The contract shall stand for guarantee against defective materials of manufacturing defects and workmanship for the work carried out by him for the period of one year from it's commissioning & make good / repair / replace the faults during this period without any extra cost , failing which the same shall got done at the risk and cost of the contactor. This is in superseesion to the period of 6 months as mentioned in the clause-16 of this agreement.
- 9) Security deposite of the contractor shall be released only after satisfactory completion of guarantee period.
- 10) Makes of product shall be as per product directory enclosed or approved by the Engineer - in - Chanrge.
- 11) 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/ Central Excise/ Custom Departments recommend such a course – Action will be taken as per the directions of CBI or concerned department.

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"ESSENTIAL CONDITIONS OF CONTRACT "

The firm shall read carefully the following conditions and shall quote accordingly conforming all the points in their offer. Firm should specifically note that if they do not enclose E.M.D. with their tender , their tender will not be opened at all.

1. **TAXES AND DUTIES** : The firm shall quote the rate each time on lump sum basis .The rate quoted by the agency should be **exclusive of GST & other Taxes.**
2. Loading , unloading , transportation, insurance etc. shall all be included in their offer.
3. All the materials will be under the charge of the contractor till it is completed and handed over . No materials will be removed from site without written permission of the Engineer - in Charge.
4. Firm shall confirm to carry out the work as per the N.I.T. conditions.

5.PAYMENTS TERMS : No advance payments will be made. Stipulations like levy of interest if any payment is not made in specifiied time is not acceptable to the department.

6. **Offer should be clear** . Any ambiguous offer is liable fo rejection by the department. **There will be no negotiation with the lowest tenderer. Hence the firms are requested to quote carefully. Department's decision in this regard shall be final and binding on the tenderer . Offer with condition will be summarily rejected.**

7. **GST** : **The rates offered by the firm shall be exclusive of GST. The firm shall claim GST with the bill clearly furnishing the complete details of GST so included.**

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SPECIFICATION

E.I & FANS :

- 1 The work is to be carried out as per CPWD specifications (External) and I.E Rule amended up to date.
- 2 Good workmanship is an essential requirement to be complied with. The entire work of manufacturer, fabrication, assembly and installation shall conform to sound engineering practice.
- 3 Rates quoted shall be inclusive of packing , forwarding, insurance , freight and delivery at site watch and ward of all materials.
- 4 All Sundry fittings , accessories , hardware items, foundation bolts, termination lugs for electrical connection as required and all other sundry items which are useful & necessary for proper assembly and efficient working of the various components of the works shall be deemed to have included in the tender.
- 5 Following works shall be carried out by the contractor and therefore their cost shall be deemed to be included in their tendered cost.
 - a) The contractor shall be responsible for repairing all damages and restoring the same to their original finish. He shall also remove at his cost all unwanted and waste materials arising out of his work from his site.
 - b) All chases required in connection with the electrical works shall be provided and filled by the contractor to the original finish.
 - c) Temporary shed if required over the storage space and locking arrangement , watch and ward of the materials shall be provided by firm till completion of the work and final taking over of the installation by the department.
- 6 The contractor shall employ qualified engineer ? Supervisor as required and intimate names of such persons to the Engineer- in- Charge on commencement of work. Failure to employ will attract penalty as per agreement.
- 7 If any conduit is laid before award of work recovery for the same will be made from contractor at the rate of S.R-2012 + Abatement of respective S/H of this tender.
- 8 All non- metallic conduit pipes and accessories shall be of I.S.I marked , conduit accessories shall be of grip type / threaded type.
- 9 PVC conduit to be used shall be ISI marked heavy gauge and fire retardant quality.
- 10 The switch box shall be made of mild steel of size 16 / 18 SWG as per CPWD specification except the front side. The clear depth of MS switch shall not be less than 60 mm. Phenolic laminated sheet cover of 3 mm thick shall be provided in the front side of box.
- 11 Earthing shall be carried out in presence of representative of the department.
- 12 Numbering and sign writing of entire installation shall be carried out by the contractor as per instructions of the Engineering - in- Charge for which nothing extra shall be paid.
- 13 On completion of installation following tests shall be carried out:-
 - A) Insulation resistance test. B) Polarity test. C) Earth continuity test. D) Earth electrode resistance test.
- 14 On completion of electrical installation a certificate shall be furnished by the contractor in prescribed proforma, this certificate shall be in addition to the certificate required by local electric supply company.
- 15 **Breaking capacity of MCBs should be 10 KA.**

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List of Approved makes for Sub Station Works

List of Approved makes for Sub Station Works

1	HV SWITCHGEAR	SOUTHERN SWITCHGEAR/ BIECCO LAWRIE/CROMPTON/ JYOTI/ MEI/ KIRLOSKAR/ VOLTAS/NGEF/ ALSTOM/ SIEMENS (Note: Make of the accessories like meters, CTs PTs etc. shall be as provided by the manufacturer of the HT panel.)
2	TRANSFORMER	ABOVE 400 KVA: KIRLOSKAR/ NGEF/ CROMPTON/ SIEMENS/ ABB/ VOLTAS/ BHARAT BIJLEE/ ANDREW YULE/ EMCO/ GE UPTO 400 KVA: IN ADDITION TO ABOVE MAKES PATSON/ ETE/ KANOVAR (MEERUT)/ ITL RAJASTHAN TRANSFORMER & SWITCHGEAR JAIPUR
3	ACB	L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE POWER CONTROLS
4	MCCB	L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE POWER CONTROLS
5	TPN SWITCH AND HRC FUSES	L&T/ SIEMENS/ HAVELLS/ HH ELCON/ SCHNEIDER/ STANDARD (UPTO 400A)/ GE POWER CONTROLS
6	CONTACTORS AUXILIARY	L&T/ LAXMI/ GE POWER CONTROLS SIEMENS/ SCHNEIDER/ MEI/
7	IDMT RELAY	AVKC-SEGC
8	APFC RELAY	SYNTRON/ SCHNEIDER/ TRINITY ELECTRONICS
9	CT	AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ MECO/
10	AMMETER / VOLTMETER	AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON
11	SELECTOR SWITCH	L&T/ AE/ IMP/ RASS CONTROL/ THAKOOR/ KAYCEE/ RECO/ VAISHNO/ SALZER
12	INDICATING LAMPS	VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL/ TEKNIC/ SCHNEIDER/ KAYCEE
13	PF METER	AE/ IMP/ RISHABH/ MECO/ UNIVERSAL/ DIGITRON
14	CAPACITORS (APP TYPE)	KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USHA/ ASIAN/ AE
15	CABLES	
	A. UPTO 1.1 KV GRADE	ISI MARK
	B. ABOVE 1.1 KV GRADE	ISI MARK
16	AIR BREAK SWITCH	NATIONAL/ KIRAN/ PACTIL/ ATLAS
17	PIN INSULATOR	JAYSHREE/ WS/ IEC/ PCL/ BHEL
18	LIGHTENING ARRESTOR	ELARO/ LAMCO/ INTERNATIONAL/ GE/ ATLAS
19	DROPOUT FUSES	NATIONAL/ KIRAN/ PACTIL
20	FIRE EXTINGUISHER	ISI MARK
21	RUBBER MATTING	ISI MARK

22	CABLE JOINT KIT	RACHEM/ M-SEAL/ DENSONE
23	VACUUM CIRCUIT BREAKER	ALSTOM/ SIEMENS
List of Approved makes for EA Set Works		
1	ENGINE	CUMMINS/ RUSTON/ ESCORTS/ KEOL/ CATER PILLAR/ ASHOK LEYLAND/ GREAVES/VOLVO PENTA (200-500 KVA)
2	ALTERNATOR	KIRLOSKAR/ NGEF/ LEROY SOMER/ JYOTI FRAME SIZE PTG (62.5 KVA-500 KVA) STAMFORD/ CROMPTON GREAVES (SLIP RING/BRUSHLESS, 6-200 KVA)/ AVK-SEG (UPTO 250 KVA)/ ELECTRODYNE (UPTO 100 KVA)/ CROMPTON GREAVES AL SERIES (15 TO 100 KVA)/ ELGI (20 TO 380 KVA) / KEL (BRUSHLESS UPTO 1000 KVA)
3	ACB	L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE POWER CONTROLS
4	MCCB	L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE POWER CONTROLS
5	CONTACTORS AUXILIARY	L&T/ LAXMI/ GE POWER CONTROLS SIEMENS/ SCHNEIDER/ MEI/
6	IDMT RELAY	AVKC-SEGC
7	CT	AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ MECO/
8	PF METER	AE/ IMP/ RISHABH/ MECO/ UNIVERSAL/ DIGITRON
9	AMMETER / VOLTMETER	AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON
10	SELECTOR SWITCH	L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/VAISHNO/ SALZOR/ RASS CONTROL
11	INDICATING LAMPS	VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL/ TEKNIC/ SCHNEIDER/ KAYCEE
12	FREQUENCY METER	DIGITRON/ RISHABH/ MECO/ KELTRON/ IMP AE
13	LEAD ACID BATTERY	EXIDE/ STANFORD/ FURUKAWA/ AMCO/ PACE SETTER/ NICCO/ PRESTOLITE/ AMAR RAJA/STANDARD/ CROMPTON GREAVES/ HITACHI
14	GI / MS PIPE	BST/ TATA/ ATL/ ITC/ ATC/ IIA/ JST/ ITS/JINDAL/ ZENITH/ GSI/ TTA
15	AVM PADS	DUNLOP/ POLYBOND
16	FIRE EXTINGUISHER	ISI MARK
17	RUBBER MATTING	ISI MARK
18	CABLES	
	A. UPTO 1.1 KV GRADE	ISI MARK
	B. ABOVE 1.1 KV GRADE	ISI MARK
19	GM VALVE	FOUNTAIN/ TRISHUL/ LEADER/ KIRLOSKAR
20	TRIVECTOR METER	SUNCO/ JAIPUR/ IMP

21	KWH METER	SIMCO/ JAIPUR/ IMP/ AE/ UNIVERSAL/RISHABH					
List of Approved makes for EI and fans, Pump sets and Compound Light Works							
1	ACB	L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE POWER CONTROLS					
2	MCCB	L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE POWER CONTROLS					
3	TPN SWITCH AND HRC FUSES	L&T/ SIEMENS/ HAVELLS/ HH ELCON/SCHNEIDER/ STANDARD (UPTO 400A) GE POWER CONTROLS					
4	CT	AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ MECO/					
5	AMMETER / VOLTMETER	AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON					
6	SELECTOR SWITCH	L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/VAISHNO/ SALZOR/ RASS CONTROL					
7	INDICATING LAMPS	VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL/ TEKNIC/ SCHNEIDER/ KAYCEE					
8	CAPACITORS (APP TYPE)	KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USHA/ ASIAN/ AE					
9	CABLES						
	A. UPTO 1.1 KV GRADE	ISI MARK					
	B. ABOVE 1.1 KV GRADE	ISI MARK					
10	PVC INSULATED COPPER CONDUCTOR WIRE	ISI MARK					
11	FIRE EXTINGUISHER	ISI MARK					
12	RUBBER MATTING	ISI MARK					
13	CABLE JOINTS	RACHEM/ M-SEAL/ DENSONE					
14	SINGLE PHASING PREVENTOR	L&T/ MINILEC/ ZERO TRIP/ SIEMENS					
15	TIMER	L&T/ SIEMENS/ MINILEC/ TELEMECHANIQUE/ AE					
16	MCB, ISOLATOR AND DISTRIBUTION BOARD	BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNEIDER/ MDS/SIEMENS					
17	CHANGEOVER SWITCH	STANDARD/ HAVELLS/ CONTROL & SWITCHGEAR HH ELCON					
18	PIANO SWITCH	ISI MARK					
19	MONOBLOCK PUMP SET	KSB/ BEACON/ KIRLOSAR/ BATLIBOI/ JYOTI/BE/ CROMPTON/ PEC/ MATHER&PLATT/WASP					
20	STARTER	L&T/ SIEMENS/ BCH/ ABB/ MEI/ GE POWER CONTROLS					
21	GI / MS PIPE	BST/ TATA/ ATL/ ITC/ ATC/ IIA/ JUST/ ITS/JINDAL/ ZENITH/ GSI/ TTA					
22	FOOT VALVE	ISI MARK					
23	GATE VALVE	FOUNTAIN/ TRISHUL/ SANT/ ANNPURNA LEADER					

24	MS CONDUIT	ISI MARK
25	SUBMERSIBLE PUMP	KSB/ KALAMA/ AMRUT/ KIRLOSKAR/ PEC BE
26	ELCB	STANDARD/ MDS/ HAVELLS/ DATAR/SIEMENS/ GE POWER CONTROLS
27	CONTACTOR	SIEMENS/ L&T/ SCHNEIDER/ MEI/ LAXMI GE POWER CONTROLS
List of Approved makes for Fire Detection Works		
1	HEAT DETECTORS	NITTON/ APPOLLO/ CHEMTRON/ HOCHIKI/EDWARD/ WORMALD/ FENWAL/
2	SMOKE DETECTOR IONIZATION TYPE	VIJAY/ APPOLLO/ CEREBRUS/ HOCHIKI/EDWARD/ WORMALD/ FENWAL/ NITTON
3	SMOKE DETECTOR PHOTOELECTRIC TYPE	NITTON/ APPOLLO/ CEREBRUS/ HOCHIKI EDWARD/ WORMALD/ FENWAL/ VIJAY
4	FIRE PANELS	MATHER & PLATT/ MELTRON/ STEELAGE INDUSTRIES (MINIMAX)/ VIJAY/ SAFEWAY SECURITY SYSTEM MUMBAI/ CARMEL AND RAVAL ELECTRONICS CO. CHENNAI/ NAVEEN SYSTEM CHENNAI/ ALERT FIRE SERVICE BANGALORE
5	P A SYSTEM	AHUJA/ PHILIPS/ MOTWANI/ AKG
6	HOOTER	VAISHNO/ AHUJA/ AGNI/ PHILIPS/ MOTWANI
7	PVC INSULATED COPPER CONDUCTOR CABLE	ISI MARK
8	BATTERY (LEAD ACID SEALED AND MAINTENANCE FREE)	EXIDE/ STANFORD/ FURUKAWA/ AMCO/ PACE SETTER/ NICCO/ PRESTOLITE/ AMAR RAJA/STANDARD/ CROMPTON GREAVES/ HITACHI
9	CONDUIT	ISI MARK
List of Approved makes for Fire Fighting Wet Riser Works		
1	HOSE REEL	ISI MARK
2	HOSE PIPE	ISI MARK
3	DIESEL ENGINE FOR FIRE PUMP	CUMMINS/ ESCORTS/ KEOL/ CATERPILLAR/ ASHOK LEYLAND/ GREAVES/ VOLVO PENTA (200-500 KVA)/ RUSTON
4	FIRE EXTINGUISHERS	ISI MARK
5	MOTORS	GE/ SIEMENS/ CROMPTON/ HBB/ KEC/ BHARAT BIJLEE/ ABB/ MEI/ SPARTON/ NGEF (ENERGY EFFICIENT MOTORS AS PER IS 12615/1984 FOR MOTORS BELOW 37KW)
6	STARTER	SIEMENS/ L&T/ BCH/ ABB/ MEI/ GE POWER CONTROL
7	TPN SWITCHES AND HRC FUSES	L&T/ SIEMENS/ HAVELLS/ HH ELCON/STANDARD / SCHNEIDER/ GE POWER CONTROLS
8	MCCB	SIEMENS/ L&T/ CONTROL & SWITHGEAR SCHNEIDER/ GE POWER CONTROLS
9	INDICATING LAMPS	VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL/ TEKNIC/ SCHNEIDER/ KAYCEE

10	AMMETER / VOLTMETER	AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON					
11	SELECTOR SWITCH	L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/VAISHNO/ SALZOR/ RASS CONTROL					
12	CT	AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ASHMOR/ INDOCOIL/ WACO/ MECO					
13	LEAD ACID BATTERY	EXIDE/ STANDARD/ AMCO/ PACE SETTER/ NICCO/ PRESTOLITE/ AMAR RAJA/					
		CROMPTON GREAVES/ HITACHI/ STANFORD/					
14	GI / MS PIPE	BST/ TATA/ ATL/ ITC/ ATC/ IIA/ JUST/ ITS/JINDAL/ ZENITH/ GSI/ TTA					
15	AVM PADS	DUNLOP/ POLYBOND					
16	RUBBER MATTING	ISI MARK					
17	CABLES						
	A. UPTO 1.1 KV GRADE	ISI MARK					
	B. ABOVE 1.1 KV GRADE	ISI MARK					
18	SINGLE PHASING PREVENTOR	L&T/ MINILEC/ ZEROTRIP/ SIEMENS					
19	GM VALVE	FOUNTAIN- ISI MARK/ TRISHUL/LEADER/ SANT/ ANNPURNA					
20	GAUGES	FIEBIG/ H-GURU/ PRICOL					
21	PUMPS	KSB/ BEACON/ KIRLOSKAR/ BATLIBOI/ JYOTIWASP/ BE/ CROMPTON/ PEC/ MATHER&PLATT					
22	SPRINKLER	ISI MARK					
List of Approved makes for Air Conditioning Works							
1	MOTOR	SIEMENS/ CROMPTON GREAVES/ HBB/ KEC/BHARAT BIJLEE/ ABB/ MEI/ SPARTON/ NGEFGE					
2	COMPRESSOR	VOLTAS/ KIRLOSKAR COPELAND/ BATLIBOI/ CARRIER/ KPC CARRIER/ COPELAND/ ACCEL/BLUE STAR/ TRANE					
3	STARTER	SIEMENS/ L&T/ BCH/ ABB/ MEI GE POWER CONTROLS					
4	MCB, ISOLATOR AND DISTRIBUTION BOARD	BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/ SIEMENS/ STANDARD/ SCHNEIDER/ MDS					
5	GI / MS PIPE	TATA/ ATL/ ITC/ ATC/ IIA/ JST/ ITS/ JINDAL ZENITH/ GSI/ TTA/ BST					
6	CABLES						
	A. UPTO 1.1 KV GRADE	ISI MARK					
	B. ABOVE 1.1 KV GRADE	ISI MARK					
7	GM VALVE	FOUNTAIN/ TRISHUL/ ANNPURNA/LEADER/ SANT					

8	SPP / OVERLOAD UNIT	L&T/ MINILEC/ ZEROTRIP/ SIEMENS						
9	RESIN BOND GLASS WOOL	FIBRE GLASS/ PILKINGTON/ UPTWIGA						
10	EXPANDED POLYSTERENE	BASE (INDIA) LTD.						
11	GAUGES	FIEBIG/ H-GURU/ PRICOL						
12	CONTROLS	INDFOSS/ HONEYWELL/ SPORLAN/ RANCO/RANUTROL/ PENN/ DANFOSS/ FLICA						
13	FRESH AIR FAN	GE/ KHAITAN						
14	FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS)	DYNA/ TENACITY/ KIRLOSKAR/ PUROMATIC/AITECH/ FURAFILL/ ARW/ ATHLETE/ PUROLATOR/ ANFILTRA EFFULENT						
15	GI SHEETS	TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATIONAL						
16	INDICATING LAMPS	VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL/ TEKNIC/ SCHNEIDER/ KAYCEE						
17	AMMETER / VOLTMETER	AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON						
18	SELECTOR SWITCH	L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNO/ SALZOR/ RASS CONTROL						
19	CT	AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ MECO/						

PROFORMA OF SCHEDULES

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

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

Sr. No.	Description of item	Quantity	Rates in figures and words at which the material will be	Place of Issue
1	2	3	4	5
As mentioned in the Schedule of work				

SCHEDULE 'F'

Reference to General Conditions of contract.

Name of work:

Provision of power supply arrangement to upcoming BTS site from existing transformer substation by laying of 4 x 16 sqmm power cable, sub-metering arrangement & associated work at RI Training Institute, Bhubaneswar.

Estimated cost of work:	135293.00
Earnest money:	2706

Performance guarantee	5% of the tendered value of the work in the form of Bank Guarantee from Scheduled Bank in respect of works with estimated cost put to tender exceeding Rs 6 lacs.
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GENERAL RULES and DIRECTIONS:

Officer inviting tender:	Executive Engineer (E), BSNL Electrical Division, Bhubaneswar.
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Definitions:

2(v) Engineer-in-Charge	Executive Engineer (E), BSNL Electrical Division, Bhubaneswar.
2(vi) Accepting Authority	Executive Engineer (E), BSNL Electrical Division, Bhubaneswar.
2(x) Percentage on cost of materials and labour to cover all overheads and profits.	10%

Clause 5

Time allowed for execution of work.	10 days
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Authority to give fair and reasonable extension of time for completion of work.	S.E(E), O/o the C.E(E), BSNL Electrical Odisha Zone, Bhubaneswar
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Clause 12

NA

12.1.2 (iii) Schedule of rates for determining rates for additional, altered or, substituted items that cannot be determined under 12.1.2 (i)and(ii)	± the % over the rate entered in the schedule of rates	
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Clause.25

Authority competem for conciliation	S.E(E) not in charge
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Name of work:		Provision of power supply arrangement to upcoming BTS site from existing transformer substation by laying of 4 x 16 sqmm power cable, sub-metering arrangement & associated work at RI Training Institute, Bhubaneswar.			
Sl. no.	Description of Items	Quantity	Unit Price excluding GST (Rs.)	Unit	Total Amount excluding GST (Rs `)
1	Supplying of 4 core 16 sqmm LT XLPE insulated & PVC sheathed aluminium conductor armoured cable of 650/1100 Volts grade conforming to IS:7098 (Part-1) 1988 i/c transportation to the above site for extension of power supply as required. Make:- NICCO/ GLOSTER/ POLY CAB/ HAVELLS	400		mtr	
2	Laying and fixing of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size in following manner etc. as reqd..				
a)	upto 35 sq. mm				
i)	On wall surface (clamped with 1 mm thick saddle)	375		mtr	
ii)	In the existing RCC/ HUME/ METAL pipe as required.	15		mtr	
iii)	Laying of cable direct under ground including excavation & refilling the trench etc but excluding sand cushioning & protective covering.	10		mtr	
3	Supplying and making end termination with aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
a)	4 x 16 sqmm with brass compression gland	2		set	
b)	Without brass compression gland but with aluminium pin type/ flat socket.	2		set	
4	Supplying & fixing 40mm dia M-class GI Pipe in ground/ On surface /along with pole for protection cable etc. as required.	15		mtr.	
5	Supplying and fixing of direct connected type 3 phase 4 wire digital energy meter of rating 20-100 amp, accuracy class-1.0, suitable for operation on 230/240V (P-N), 400/415V (P-P), 50 Hz±5% AC supply, operating temperature range from +55 deg C to -10 Deg C, protection class of IP-51 compliance to IS-13779, IEC-62052-11 and IEC-62053-21 with engineering plastic enclosure and provision for sealing of mains and terminal covers, etc.as reqd. (Make & Model: SECURE SPRINT- 350/equivalent model of L&T/CESU approved make)	1		Each	

6	Supplying and fixing of pole/wall mounted type Polycarbonate Transparent meter box for accomodating 3 phase 4 wire whole current energy meter. The meter box should be weather proof and fire retardant properties complying with provisions of IS 5133. To facilitate for reading the parameters by manual push button on the meter, a slit with an external push botton arrangement shall be provided at the front of the box with sealing provision. Soft rubber gaskets shall be provided all around wherever required for protection against entry of dust and water. It shall comply with IP-55. The box shall have provision for minimum 2 nos. seals to make it fully tamper evident.	1		Each	
7	Supplying & fixing of 1no. 63Amp TPN main switch with 3nos. HRC fuses in a suitable size Sintex polycarbonate enclosure box for out door application, Making fixing the same with required hardware etc. complete as required.	1		job	
8	Supplying & fixing folowing fans, light fitting spares/acessories in place of defective/damaged ones making necessary connection checking testing etc. as required .				
a)	1200 sweep, 400RPM ceiling fan (Make:- Usha Racer or SS of Crompton/Havells/Khaitan/ORTEM.)	1		Each	
b)	BC type 9W LED bulb (Make:- Crompton/ Philips/ Bajaj/ Havells)	3		Each	
9	Supply of following size Exhaust Fan with a capacitor start and run type, continuously rated, totally enclosed and ruggedly built motor having pre lubricated double ball bearing with Class "A" and "E" insulation suitable for operation on 230 volts single phase 50 HZ AC supply with features for smooth & silent operation to deliver the maximum output at lower operating cost. The impeller of the Exhaust Fan is to be propeller type and both hub and impeller are to be dynamically balances and frames and arms mounted on rubber bushing so that, vibration are virtually eliminated. (Make- Almonard model – 380/15" H/D or similar superior)				
a)	380mm /15" heavy duty 1400 RPM, maximum free air delivering capacity not less than 3250 m ³ / hour (1910 CFM) and maximum sound level not more than 60-65 db.	1		job	
10	Installation of exhaust fan up to 450mm sweep in the existing wall / shelter opening with fastener/ GI nuts and bolts, including making good the damage, connection, testing, commissioning etc. as required	1		job	
11	Supplying and installation of gravity type Aluminum/ GI louver shutters suitable for 380mm sweep exhaust fans with fastener /GI nuts and bolts etc. complete as required.	1		job	

12	Making opening on brick wall of suitable size for fixing of 380mm sweep Exhaust Fans including making good the damages, minor civil works etc. complete as required. (For room BTS sites)	1		job	
13	Supply of 450mm X 450mmX50mm size panel type Inlet Air Filter having washable Synthetic Fiber filtration medium, GI/Aluminium frame with aluminium /spray iron protect mesh capable for air filtration 35 microns (maximum size) and maximum air handling capacity of 2000 CFM, including fixing the same in existing GI /MS frame structure etc. complete as required.	1		job	
14	Supply of inlet Air filter housing cum louver unit of following size , made of 18 SWG GI sheet with collars of about 50mm width in all front sides, suitable size drill holes for fixing the same on wall, detachable 18 SWG thick, 10mm width GI supporting strip of length 560 mm with drill holes at both ends in front facia for holding the air filter in position, louver blades of 100mm width of required quantities shall be welded horizontally at back side of the filter housing frame with half of the portions remain outside the frame at an angle of about 30 deg downwards to prevent entering of rain water into the room/shelter, a GI /stainless steel protective wire mesh of size 2.64mm X 2.64mm, having wire diameter 14 SWG & each square size 25mm X 25mm (distance from centre to centre of wire - 25mm for both main and cross) to be welded inside the GI sheet housing frame, painting the welded spots by aluminium oxide paint etc. as per the direction of Engineer in charge, including fixing the same in existing opening with Fastener /GI nuts and bolts etc. complete as required. (Drawing and Sample are to be got approved from the Engineer in charge before execution)				
	a) Overall Size 460mm (Width) X 450 mm (Height) X 300 mm (Depth) - For Room BTS sites	1		job	
15	Making of air inlet opening on brick wall of approximate size 450mm X 460mm, suitable for fixing the filter housing cum louver unit including making good the damages, minor civil works etc. as required.	1		job	
Total Value in Rs.					
ADD GST @					
GRAND TOTAL VALUE IN Rs.					

Executive Engineer (E), BSNL Electrical Division, Bhubaneswar.

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