BHARAT SANCHAR NIGAM LIMITED (NOTICE INVITING TENDER)



SI No.	Name of work	Estimated cost.(Rs.)	EMD (Rs).	Time	NIT No.
1	Repairing of 75/48 KVA AVR at Telephone Exchange Aiginia, Forest Park, & CIFA under ESD-II, Bhubaneswar.		885	7 days	59/BSNL-BSR/18-19

A/A & E/S Reference	ARMO				
T/S No.	13/BSNL-ESDB-II/18-19				
Tender paper cost (Non refundable)	177.00				
Last Date of receipt of application:-	03.07.2018	(upto 4.00PM)			
Last Date of tender paper sale:-	03.07.2018	(upto 5.30PM)			
Last Date of tender paper receipt:	04.07.2018	(upto 3.00PM)			
Date of opening:-	04.07.2018	(after 3.30 PM)			

Eligibility criteria :-

- 1 The contractors satisfying the following conditions:
- Average annual turnover during the last 3 years, ending 31st March of the previous financial year, should be atleast 30% of the estimated cost put to tender. AND
- The manufacturer /authorized dealer / OEM of any of the makes of major equipment included in the NIT. The letter of authorization from manufacturer in original / photocopy attested by BSNL Executive will be submitted.
- Experience of having successfully completed similar works in BSNL during last 7 years ending last day of month previous to the one in which applications are invited, should be either of the following:
 - a. Three similar successfully completed works costing not less than the amount equal to 40% of the estimated cost put to tender. OR
 - b. Two similar successfully completed works costing not less than the amount equal to 60% of the estimated cost put to tender. OR
 - c. One similar successfully completed work costing not less than the amount equal to 80% of the estimated cost put to tender. OR
- 1.4 BSNL enlisted contractors in Electrical category of respective class 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 guarranted by reserve bank of India drawn in favour of A.O(CASH), BSNL, O/o 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 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.
- The tender documents shall not be sent through courier /post. The tender documents received through courier/ post shall not be opened / considered at all.

No.:- 18/BSNL/ESDB-II/133

Dt. 26.06.2018

- 1) The S.E(E), O/o Sr. CE(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 CGMT Orissa Circle, Bhubaneswar.
- 5) The Accounts Officer(Cash), O/o GMTD, Bhubaneswar.
- 6) The Notice Board.
- 7) Contractors

Sub Divisional Engineer (E), BSNL Electrical Sub Division-II, BBSR.

BHARAT SANCHAR NIGAM LIMITED

(A Govt. of India Enteprise)

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

Repairing of 75/48 KVA AVR at Telephone Exchange Aiginia, Forest Park, & CIFA under ESD-II, Bhubaneswar.

The work is estimated to cost Rs.

44270.00

excluding GST

This estimate however is given merely as a rough guide

1) Tender will be issued to The contractor

The contractors satisfying the following conditions:

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

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

Experience of having successfully completed similar works in BSNL during last 7 years ending last day of month $^{1.3}$ previous to the one in which applications are invited, should be either of the following:

- a. Three similar successfully completed works costing not less than the amount equal to 40% of the estimated cost put to tender. OR
- b. Two similar successfully completed works costing not less than the amount equal to 60% of the estimated cost put to tender. OR
- c. One similar successfully completed work costing not less than the amount equal to 80% of the estimated cost put to tender. OR
- 1.4 BSNL enlisted contractors in Electrical category of respective class as per their tendering limits.
- 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 tems and conditions of the said form which will form part of the agreement.
- 3) The time allowed for carrying out the work will be 7 days
- 4) The availablity 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 two days 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 and other necessary document can be seen in the office of the Sub Divisional Engineer (E), BSNL Electrical Sub Division-II, 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 this office during the hours specified above on payment of Rs.

177.00 only in cash.

- 6) The tenderer must produce an Chartered 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

Sub Divisional Engineer (E), BSNL Electrical Sub Division-II, BBSR. up to 03.00 PM on 04.07.2018 and will be opened by him or his authorized representative in his office on the same day at 03.30 PM.

- 8) The tender shall be accompanied by earnest money of Rs. 885 /- Only in the form of DD of a scheduled Bank issued in favour of **A.O(CASH)**, **BSNL**, **O/o GMTD**, **Bhubaneswar**, the amount being credited to Nationalized Bank / State Bank
- 9) The description of the work is a follows :-

Name of the work :-

Repairing of 75/48 KVA AVR at Telephone Exchange Aiginia, Forest Park, & CIFA under ESD-II, 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 exmine the site and its suttoundings and satisfy themselves before submitting eheir tenders as to the ground and sub - soil.(so far as is practicaable), the form and nature of the site , the means of access to the site , the accomodation they may require and in general shall themselves obtain all necessary information as to tisks , 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 [;ants, 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 ijplies 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 ates 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 renderer 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 prohibied and the tenders submitted by the contractors who restore to canvassing will be liable to rejection.
- 3. The competent authority on hehalf of BSNL reserves to himself the right of accepting the whole or any part of the tender and the tenderer whall 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 accoun tant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer(both inclusive). He shall also intomate 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 he 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 abtained 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 o opening of tenders. If any tender withdraws his tender before the said period or makes any notifications in the tems 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 forfit 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 Acepting 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.

Sub Divisional Engineer (E), BSNL Electrical Sub Division-II, BBSR.

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

The company or firm or any other person is not permitted to tende 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 certificatethat none of his / her such near relatives isn 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 campany 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 deposite 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:

1	S/O	R/O
that th	ned below is/ are employed in BSNL unit as per details given in the the information given by me is false / incorect, BSNL shall have aborior intimation to me.	
b) c)	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, & daughter's husband (son-in law , brother(s) & brother's wife , sist	
u	a dadgiter 3 hassand (30h in law , stouter(3) a stouter 3 wife , sist	er(s) a sister s massaria(brother in law).
	Signature of the firm / person.	
	<u>DECLARATION</u>	
of the thorou	e terms and conditions of contracts for work presently prevailing in bughly gone through the terms and agreements as contained in v.D 8 l/c up to date amendments therein . I	n the Civil Wing of BSNL . I also declare that, I have various clauses clausesand Sub - Clauses of terms (full name of
contra	ractor)further declare that while submitting the tender for	
	I fully agree to abide by the aforesaid terms and condition ement in case my tender is accepted. I undertake to bear all liablit titution of India.	
D	Date :- (Full s	singnature of the tenderer)
	Sub Divisional Engineer (E), BSNL Electrical S	ub Division-II, BBSR. page-4
	GENERAL SPECIFICATI	ONS.

- 1) The work shall be carried out as per current department / CPWD specificiations.
- 2) Layout of the work shall be given at site of work by the Engineering in Charge or his duty authorized representative.
- 3) Samples of the all articles shall be got approved from the Engineer in Chanrge 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 Engineering in Charge or his duly authorized representative.
- 8) The contract shall stand for guarantee against defective materials of manufacturering 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.

 $\label{eq:sub-division-II} \mbox{Sub-Division-II}, \mbox{BBSR}.$

"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. Loading, unloading, transportation, insurance etc. shall all be included in their offer.
- 2. 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.
- 3. Firm shall confirm to carry out the work as per the N.I.T. conditions.
- 4. **PAYMENTS TERMS**: No advance payments will be made. Stipulations like levy of interest if any payment is not made in specificied time is not acceptable to the department.
- 5. 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 tenerer. Offer with condition will be summarily rejected.
- 6. **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.

Sub Divisional Engineer (E), BSNL Electrical Sub Division-II, BBSR.

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 marerials.
- 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 inwanted 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 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 shll be made of mild steel of size 16 / 18 SWG as per CPWD specification except the fromt 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 instalation 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.

Sub Divisional Engineer (E), BSNL Electrical Sub Division-II, BBSR.

List of Approved makes for Air Conditioning Works I MOTOR SIEMENS/ CROMPTON GREAVES/ HBB/ KEC/BI SPARTON/ NGEF/ GE COMPRESSOR VOLTAS/ KIRLOSKAR COPELAND/ BATLIBOI/ COPELAND/ ACCEL/ BLUE STAR/ TRANE SIEMENS/ L&T/ BCH/ ABB/ MEI GE POWER CONTRO MCB, ISOLATOR AND DISTRIBUTION BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/ BOARD SIEMENS/ STANDARD/ SCHNEIDER/ MDS GI/ MS PIPE TATA/ ATL/ ITC/ ATC/ IIA/ JST/ ITS/ JINDAL ZENITH/ OF CABLES A. UPTO 1.1 KV GRADE ISI MARK B. ABOVE 1.1 KV GRADE SISI MARK SPP / OVERLOAD UNIT SRSIN BOND GLASS WOOL FIBRE GLASS/ PILKINGTON/ UPTWIGA SEYPANDED POLYSTERENE GAUGES FIEBIG/ H-GURU/ PRICOL CONTROLS FIEBIG/ H-GURU/ PRICOL SINDFOSS/ HONEYWELL/ SPORLAN/ RANCO/RAN FLICA FILICA FINE FILTERS FOR FRESH AIR EU-2 (COARSE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS) FIEBIG/ H-GURU/ PRICOL MIDPOSS/ HONEYWELL/ SPORLAN/ RANCO/RAN FLICA ATHLETE/ PUROLATOR/ ANFILTRA EFFULENT DYNA/ TENACITY/ KIRLOSKAR/ PUROMATIC /A ATHLETE/ PUROLATOR/ ANFILTRA EFFULENT DYNA/ TENACITY/ KIRLOSKAR/ PUROMATIC /A ATHLETE/ PUROLATOR/ ANFILTRA EFFULENT ATHLETE/ PUROLATOR/ ANFILTRA EFFULENT ATHLETE/ PUROLATOR/ ANFILTRA EFFULENT NAMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO EN L&T/ KAYCEE AE/ IMP/ UNIVERSAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/	CARRIER/ KPC CARRIER/ DLS GSI/ TTA/ BST IUTROL/ PENN/ DANFOSS/
SPARTON/ NGEF/ GE 2 COMPRESSOR VOLTAS/ KIRLOSKAR COPELAND/ BATLIBOI/ COPELAND/ ACCEL/ BLUE START TRANE 3 STARTER 4 MCB, ISOLATOR AND DISTRIBUTION BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/ BOARD SIEMENS/ STANDARD/ SCHNEIDER/ MDS 5 GI / MS PIPE TATA/ ATL/ ITC/ ATC/ IIA/ JST/ ITS/ JINDAL ZENITH/ GENERAL STANDARD/ SCHNEIDER/ MDS 6 CABLES A. UPTO 1.1 KV GRADE B. ABOVE 1.1 KV GRADE ISI MARK B. ABOVE 1.1 KV GRADE SISI MARK 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 FIEBIG/ H-GURU/ PRICOL 13 FRESH AIR FAN GE/ KHAITAN 14 FINE FILTERS FOR FRESH AIR EU-2 (COARSE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS) 15 GI SHEETS TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATION VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONT KAYCEE 17 AMMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO EN L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNOON AE/ IMP/ UNIVERSAL/ RACTIL / KARDAAL & TLASHMOON AE/ IMP/ UNIVERSAL/ RACTIL / KA	CARRIER/ KPC CARRIER/ DLS GSI/ TTA/ BST IUTROL/ PENN/ DANFOSS/
COPELAND/ ACCEL/ BLUE STAR/ TRANE 3 STARTER SIEMENS/ L&T/ BCH/ ABB/ MEI GE POWER CONTRO BOARD SIEMENS/ STANDARD/ SCHNEIDER/ MDS GI / MS PIPE CABLES A. UPTO 1.1 KV GRADE B. ABOVE 1.1 KV GRADE SIEMENS/ STANDARD/ SCHNEIDER/ MDS GM VALVE FOUNTAIN/ TRISHUL/ ANNPURNA/LEADER/ SANT SPP / OVERLOAD UNIT SPP / OVERLOAD UNIT SPP / OVERLOAD UNIT SPP / OVERLOAD UNIT GAUGES FIBRE GLASS/ PILKINGTON/ UPTWIGA BASE (INDIA) LTD. GAUGES FIBRE GLASS/ PILKINGTON/ UPTWIGA BASE (INDIA) LTD. FIEBIG/ H-GURU/ PRICOL INDFOSS/ HONEYWELL/ SPORLAN/ RANCO/RAN FLICA FINE FILTERS FOR FRESH AIR EU-2 (COARSE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS) TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATION VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONT KAYCEE AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO EN L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNOOR AE/ IMP/ UNIVERSAL/ RASHADA/ RACTIL/ KARDA/ L&T/ ASHMOR/ AE/ IMP/ UNIVERSAL/ RACTIL/ KARDA/ L&T/ ASHMOR/	GSI/TTA/BST IUTROL/ PENN/ DANFOSS/
4 MCB, ISOLATOR AND DISTRIBUTION BOARD SIEMENS/ STANDARD/ SCHNEIDER/ MDS 5 GI / MS PIPE TATA/ ATL/ ITC/ ATC/ IIA/ JST/ ITS/ JINDAL ZENITH/ GENERAL STANDARD/ SCHNEIDER/ MDS 5 GI / MS PIPE TATA/ ATL/ ITC/ ATC/ IIA/ JST/ ITS/ JINDAL ZENITH/ GENERAL STANDARD/ SCHNEIDER/ MDS 6 CABLES A. UPTO 1.1 KV GRADE ISI MARK B. ABOVE 1.1 KV GRADE ISI MARK FOUNTAIN/ TRISHUL/ ANNPURNA/LEADER/ SANT SPP / OVERLOAD UNIT SPP / OVERLOAD UNIT SPP / OVERLOAD UNIT SESIN BOND GLASS WOOL FIBRE GLASS/ PILKINGTON/ UPTWIGA FIBRE GLASS/ PILKINGTON/ UPT	GSI/TTA/BST IUTROL/ PENN/ DANFOSS/ ITECH / FURAFILL/ ARW/
BOARD SIEMENS/ STANDARD/ SCHNEIDER/ MDS GI / MS PIPE TATA/ ATL/ ITC/ ATC/ IIA/ JST/ ITS/ JINDAL ZENITH/ GI CABLES A. UPTO 1.1 KV GRADE B. ABOVE 1.1 KV GRADE ISI MARK FOUNTAIN/ TRISHUL/ ANNPURNA/LEADER/ SANT SPP / OVERLOAD UNIT RESIN BOND GLASS WOOL EXPANDED POLYSTERENE GAUGES FIBRE GLASS/ PILKINGTON/ UPTWIGA BASE (INDIA) LTD. IT GAUGES FIEBIG/ H-GURU/ PRICOL INDFOSS/ HONEYWELL/ SPORLAN/ RANCO/RAN FILICA TOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) STATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATION VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONT KAYCEE AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO EN L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNOOR AE/IMP/ MARSHAL/ RACTIL/KARPAL/ ST/ ASHMORE	IUTROL/ PENN/ DANFOSS/ ITECH / FURAFILL/ ARW/
5 GI / MS PIPE 6 CABLES A. UPTO 1.1 KV GRADE B. ABOVE 1.1 KV GRADE ISI MARK 7 GM VALVE 8 SPP / OVERLOAD UNIT 9 RESIN BOND GLASS WOOL 10 EXPANDED POLYSTERENE 11 GAUGES 12 CONTROLS 13 FRESH AIR FAN 14 FINE FILTERS FOR FRESH AIR EU-2 (COARSE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) 15 GI SHEETS 16 INDICATING LAMPS 17 AMMETER / VOLTMETER 18 SELECTOR SWITCH TATA' ATL' ITC/ ATC/ IIA' JST/ ITS/ JINDAL ZENITH/ (10 ATL) 18 SELECTOR SWITCH TATA' ATL' ITC/ ATC/ IIA' JST/ ITS/ JINDAL ZENITH/ (10 ATL) TATA' ATL' ITC/ ATC/ IIA' JST/ ITS/ JINDAL ZENITH/ (10 ATL) TATA' ATL' ITC/ ATC/ IIA' JST/ ITS/ JINDAL ZENITH/ (10 ATL) ISI MARK FOUNTAIN, TRISHUL/ ANNPURNA/LEADER/ SANT L&T/ MINILEC/ ZEROTRIP/ SIEMENS FIBRE GLASS/ PILKINGTON/ UPTWIGA BASE (INDIA) LTD. FIBRE GLASS/ PILKINGTON/ UPTWIGA BASE (INDIA) LTD. INDFOSS/ HONEYWELL/ SPORLAN/ RANCO/RAN FLICA ATHLETE/ PUROLATOR/ ANFILTRA EFFULENT TATA' SAIL / NIPPON/ DENRO/ HSL/ JINDAL/ NATION KAYCEE TATA' SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATION KAYCEE	IUTROL/ PENN/ DANFOSS/ ITECH / FURAFILL/ ARW/
6 CABLES A. UPTO 1.1 KV GRADE B. ABOVE 1.1 KV GRADE ISI MARK 7 GM VALVE FOUNTAIN/ TRISHUL/ ANNPURNA/LEADER/ SANT 8 SPP / OVERLOAD UNIT BESIN BOND GLASS WOOL FIBRE GLASS/ PILKINGTON/ UPTWIGA 10 EXPANDED POLYSTERENE BASE (INDIA) LTD. 11 GAUGES FIEBIG/ H-GURU/ PRICOL INDFOSS/ HONEYWELL/ SPORLAN/ RANCO/RAN FLICA 12 CONTROLS FIRSH AIR FAN GE/ KHAITAN GE/ KHAITAN THINE FILTERS FOR FRESH AIR EU-2 (COARSE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS) TO GI SHEETS TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATION VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONT KAYCEE TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATION KAYCEE	IUTROL/ PENN/ DANFOSS/ ITECH / FURAFILL/ ARW/
A. UPTO 1.1 KV GRADE B. ABOVE 1.1 KV GRADE ISI MARK 7 GM VALVE FOUNTAIN/ TRISHUL/ ANNPURNA/LEADER/ SANT 8 SPP / OVERLOAD UNIT DESTIN BOND GLASS WOOL 10 EXPANDED POLYSTERENE 11 GAUGES 12 CONTROLS 13 FRESH AIR FAN 14 FINE FILTERS FOR FRESH AIR EU-2 (COARSE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS) 15 GI SHEETS TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATION VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONT KAYCEE 18 SELECTOR SWITCH ISI MARK ISI MARK ISI MARK ISI MARK FOUNTAIN/ TRISHUL/ ANNPURNA/LEADER/ SANT L&T/ MINILEC/ ZEROTRIP/ SIEMENS IL&T/ MINILEC/ ZEROTRIP/ SIEMENS IL&T/ MINILEC/ ZEROTRIP/ SIEMENS IL&T/ MINILEC/ ZEROTRIP/ SIEMENS INDICAS PILKENS INDICATING LAMPS INDICATING LAMPS AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO EN L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNOOR AE/ IMP/ MARSHAL / DACTH/ KARDA/ L&T/ ASTIANDOR/	ITECH / FURAFILL/ ARW/
B. ABOVE 1.1 KV GRADE SI MARK	ITECH / FURAFILL/ ARW/
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 FILED FIEBIG/ H-GURU/ PRICOL 12 CONTROLS INDFOSS/ HONEYWELL/ SPORLAN/ RANCO/RAN FLICA 13 FRESH AIR FAN GE/ KHAITAN 14 FINE FILTERS FOR FRESH AIR EU-2 (COARSE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS) 15 GI SHEETS TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATION 16 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONT KAYCEE 17 AMMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO EN L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNOOR	ITECH / FURAFILL/ ARW/
8 SPP / OVERLOAD UNIT 9 RESIN BOND GLASS WOOL 10 EXPANDED POLYSTERENE 11 GAUGES 12 CONTROLS 13 FRESH AIR FAN 14 FINE FILTERS FOR FRESH AIR EU-2 (COARSE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS) 15 GI SHEETS 16 INDICATING LAMPS 17 AMMETER / VOLTMETER 18 SELECTOR SWITCH 1 L&T / MINILEC / ZEROTRIP / SIEMENS 1 E&T / MINILEC / ZEROTRIP / SIEMENS 1 FIBRE GLASS / PILKINGTON / UPTWIGA 1 FIBRE GLASS / PILKINGTON / UPTWIGA 1 FIBRE GLASS / PILKINGTON / UPTWIGA 1 BASE (INDIA) LTD. 1 BASE (INDIA)	ITECH / FURAFILL/ ARW/
9 RESIN BOND GLASS WOOL 10 EXPANDED POLYSTERENE 11 GAUGES 11 GAUGES 12 CONTROLS 13 FRESH AIR FAN 14 FINE FILTERS FOR FRESH AIR EU-2 (COARSE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS) 15 GI SHEETS 16 INDICATING LAMPS 17 AMMETER / VOLTMETER 18 SELECTOR SWITCH 18 SELECTOR SWITCH 19 BASE (INDIA) LTD. 16 INDICATING LAMPS 18 BASE (INDIA) LTD. 19 INDERONAL PRICON UPTWIGA 19 BASE (INDIA) LTD. 16 INDICATING LAMPS 17 AMMETER / VOLTMETER 18 SELECTOR SWITCH 18 BASE (INDIA) LTD. 19 INDICATING LAMPS 19 BASE (INDIA) LTD. 10 INDFON/ PRICOL 11 INDFON/ PRICOL 12 CONTROLS 14 INDFON/ PRICOL 15 INDICATING LAMPS 16 INDICATING LAMPS 17 AMMETER / VOLTMETER 18 SELECTOR SWITCH 18 SELECTOR SWITCH 19 ASSECTIVE (KARPA) L RACTIL (KARP	ITECH / FURAFILL/ ARW/
10 EXPANDED POLYSTERENE 11 GAUGES 12 CONTROLS 13 FRESH AIR FAN 14 FINE FILTERS FOR FRESH AIR EU-2 (COARSE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS) 15 GI SHEETS 16 INDICATING LAMPS 17 AMMETER / VOLTMETER 18 SELECTOR SWITCH 18 SELECTOR SWITCH 19 INDICATING LAMPS 10 INDICATING LAMPS 11 GAUGES 11 INDICATING LAMPS 12 INDFOSY HONEYWELL/ SPORLAN/ RANCO/RAN FILTRA EFFULAN/ RANCO/RAN FILTRA EFFULAN/ ATTION VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONT KAYCEE 18 SELECTOR SWITCH 19 BASE (INDIA) LTD. 10 INDFOSY 11 INDFOSY HONEYWELL/ SPORLAN/ RANCO/RAN 12 INDFOSY HONEYWELL/ SPORLAN/ RANCO/RAN 13 FRESH AIR FAN 14 INDFOSS/ HONEYWELL/ SPORLAN/ RANCO/RAN 15 GI KHAITAN 16 INDICATING LAMPS 17 INDICATING LAMPS 18 SELECTOR SWITCH 19 ASSEMBLY LARGE (INDICATING LARGE) ASSEMBLY LARGE (INDICATING LARGE (INDICATING LARGE) ASSEMBLY LARGE (INDICATING LARGE (INDICATING LARGE (INDICATING LARGE) ASSEMBLY LARGE (INDICATING LARGE (INDICATING LARGE (INDICATING LARGE (INDICATING LARGE (INDICATING LARGE (INDICATING LARGE (IN	ITECH / FURAFILL/ ARW/
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12 CONTROLS INDFOSS/ HONEYWELL/ SPORLAN/ RANCO/RAN FLICA 13 FRESH AIR FAN GE/ KHAITAN DYNA/ TENACITY/ KIRLOSKAR/ PUROMATIC /A ATHLETE/ PUROLATOR/ ANFILTRA EFFULENT DYNA/ TENACITY/ KIRLOSKAR/ PUROMATIC /A ATHLETE/ PUROLATOR/ ANFILTRA EFFULENT DYNA/ TENACITY/ KIRLOSKAR/ PUROMATIC /A ATHLETE/ PUROLATOR/ ANFILTRA EFFULENT DYNA/ TENACITY/ KIRLOSKAR/ PUROMATIC /A ATHLETE/ PUROLATOR/ ANFILTRA EFFULENT TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATION VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONT KAYCEE TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATION VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONT KAYCEE TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATION VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ THAKOOR/ RECO/ VAISHNO EN AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO EN L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNO EN AE/ IMP/ THAKOOR/ PEO/ VAISHNO EN AE/ IMP/ THAKOOR/ PEO/	ITECH / FURAFILL/ ARW/
12 CONTROLS FLICA 13 FRESH AIR FAN GE/ KHAITAN 14 FINE FILTERS FOR FRESH AIR EU-2 (COARSE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS) 15 GI SHEETS TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATION VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONT KAYCEE 17 AMMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO EN L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNO	ITECH / FURAFILL/ ARW/
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16 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONT KAYCEE 17 AMMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO EN L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNO	· ·
16 INDICATING LAMPS KAYCEE 17 AMMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO EN L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNO	
18 SELECTOR SWITCH L&T / KAYCEE / AE / IMP / THAKOOR / RECO / VAISHNO	
18 SELECTOR SWITCH	
19 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/	INDOCOIL/ WACO/ MECO/
List of Approved makes for El and fans, Pump sets and Compound Light W	orks
1 ACB L&T/ SIEMENS/ CONTROL & SWITCHGEAR CONTROLS	SCHNEIDER/ GE POWER
2 MCCB L&T/ SIEMENS/ CONTROL & SWITCHGEAR/ CONTROLS	SCHNEIDER/ GE POWER
3 TPN SWITCH AND HRC FUSES L&T/ SIEMENS/ HAVELLS/ HH ELCON/SCHNEIDER/ POWER CONTROLS	
4 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/	INDOCOIL/ WACO/ MECO/
5 AMMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO EN	
6 SELECTOR SWITCH L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/VAISHNO	
7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONT KAYCEE	ROL/ TEKNIC/ SCHNEIDER/
8 CAPACITORS (APP TYPE) KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERS/ AE	AL ELECTRIC/ USHA/ ASIAN/
9 CABLES	
A. UPTO 1.1 KV GRADE ISI MARK	
B. ABOVE 1.1 KV GRADE ISI MARK	
PVC INSULATED COPPER CONDUCTOR ISI MARK WIRE	
11 FIRE EXTINGUISHER ISI MARK	
12 RUBBER MATTING ISI MARK	
13 CABLE JOINTS RACHEM/ M-SEAL/ DENSONE	
14 SINGLE PHASING PREVENTOR L&T/ MINILEC/ ZEROTRIP/ SIEMENS	
15 TIMER L&T/ SIEMENS/ MINILEC/ TELEMECHANIQUE/ AE	
16 MCB, ISOLATOR AND DISTRIBUTION BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/MDS/SIEMENS	/STANDARD/ SCHNEIDER/
17 CHANGEOVER SWITCH STANDARD/ HAVELLS/ CONTROL & SWITCHGEAR H	HH ELCON
18 PIANO SWITCH ISI MARK	

19	MONOBLOCK PUMP SET	KSB/ BEACON/ KIRLOSKAR/ BATLIBOI/ JYOTI/BE/ CROMPTON/ PEC/ MATHER&PLATT/WASP						
20	STARTER	L&T/ SIEMENS/ BCH/ ABB/ MEI/ GE POWER CONTROLS						
	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						
	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 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	СТ	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						
	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						

PROFORMA OF SCHEDULES

(Operative Schedules to be supplied separately to each intending tenderer) $\underline{\textbf{SCHEDULE 'B'}}$

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 charged to the	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:	Repairing of 75/48 CIFA under ESD-II	KVA AVR at Telephone Exchange Aiginia, Forest Park, & , Bhubaneswar.
Estimated cost of work:	44270.00	
Earnest money:	885	
Performance guarantee		value of the work in the form of Bank Guarantee from Scheduled orks with estimated cost put to tender exceeding Rs.6 lacs.
GENERAL RULES and DIRECTIONS:		
Officer inviting tender	Sub Divisiona	l Engineer (E), BSNL Electrical Sub Division-II, BBSR.
Definitions:		
2(v) Engineer-in-Charge	Sub Divisiona	I Engineer (E), BSNL Electrical Sub Division-II, BBSR.
2(vi) Accepting Authority	Sub Divisiona	l Engineer (E), BSNL Electrical Sub Division-II, BBSR.
2(x) Percentage on cost of materials and labour to cover all overheads and profits.		
Clause 5		
Time allowed for execution of work.	7 days	
Authority to give fair and reasonable extension of time for completion of work.	SE(E)	
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)		te entered in the schedule of rates
Clause.25		
Authority competemt for conciliation		S.E(E) not in charge

Schedule-A

		Scrieuu						
ne of work:	Repairing of 75/48 KVA AVR at Telephone Exchange Aiginia, Forest Park, & CIFA under ESD-II, Bhubaneswar.							
Description of Items	Qty	Price excluding GST	%	GST Amount	Price inclusive of all & GST	unit	Amount incusive GST	Amount excluding GST
2	3	4	5	6	7 = (4+6)	8	9 = (3 x 7)	10 = (3 x 4)
Dismantling the 75 Kva oil cooled AVR after taking it into a suitable position & opening top cover, drawout the inside job with the help of chain pulley arrangement & testing the job with tesing equipment. Scraping carbon layer with MRE paper wash with crc. Refixing the job after necessary repairing etc. complete as required. (Aiginia -1job)	1					job		
Opening the front panel of 48 KVA oil cooled AVR & testing the function of the avr with testing equipment. Refixing the covers after necessary repairing / replacement of the components etc. complete as required. (TE Forest Park & CIFA)	2					job		
Supply & fixing of 60 A variac after dismentling the burnt variac from the job, making interconnection between variac & buck boost transformer. Testing the variac with supply for proper function etc. complete as required. (TE Aiginia)	1					job		
Supply & fixing of following damaged/burnt materials-								
a) Servo motor control card complete control transformer (CIFA -1no, Aiginia - 1no)	2					each		
b) 3 Kg torque Servo motor (Forest park-1no, CIFA-1no)	2					each		
c) 3 pole power contactor (MNX50) (Forest Park-1 no)	1					each		
d) 0-300 V range voltmeter (CIFA-2nos,Forest Park-1no)	3					each		
e) Over voltage protection relay complete with control transformer. (Forest Park-1no)	1					each		
	Description of Items 2 Dismantling the 75 Kva oil cooled AVR after taking it into a suitable position & opening top cover, drawout the inside job with the help of chain pulley arrangement & testing the job with tesing equipment. Scraping carbon layer with MRE paper wash with crc. Refixing the job after necessary repairing etc. complete as required. (Aiginia -1job) Opening the front panel of 48 KVA oil cooled AVR & testing the function of the avr with testing equipment. Refixing the covers after necessary repairing / replacement of the components etc. complete as required. (TE Forest Park & CIFA) Supply & fixing of 60 A variac after dismentling the burnt variac from the job, making interconnection between variac & buck boost transformer. Testing the variac with supply for proper function etc. complete as required. (TE Aiginia) Supply & fixing of following damaged/burnt materials- a) Servo motor control card complete control transformer (CIFA -1no, Aiginia - 1no) b) 3 Kg torque Servo motor (Forest park-1no, CIFA-1no) c) 3 pole power contactor (MNX50) (Forest Park-1 no) d) 0-300 V range voltmeter (CIFA-2nos,Forest Park-1no)	Description of Items Qty 2 Dismantling the 75 Kva oil cooled AVR after taking it into a suitable position & opening top cover, drawout the inside job with the help of chain pulley arrangement & testing the job with tesing equipment. Scraping carbon layer with MRE paper wash with crc. Refixing the job after necessary repairing etc. complete as required. (Aiginia -1job) 1 Opening the front panel of 48 KVA oil cooled AVR & testing the function of the avr with testing equipment. Refixing the covers after necessary repairing / replacement of the components etc. complete as required. (TE Forest Park & CIFA) Supply & fixing of 60 A variac after dismentling the burnt variac from the job, making interconnection between variac & buck boost transformer. Testing the variac with supply for proper function etc. complete as required. (TE Aiginia) Supply & fixing of following damaged/burnt materials- a) Servo motor control card complete control transformer (CIFA -1no, Aiginia - 1no) 2 c) 3 pole power contactor (MNX50) (Forest Park-1no) 1 d) 0-300 V range voltmeter (CIFA-2nos, Forest Park-1no) 3 e) Over voltage protection relay complete with	Description of Items Description of Items Description of Items 2 3 4 Dismantling the 75 Kva oil cooled AVR after taking it into a suitable position & opening top cover, drawout the inside job with the help of chain pulley arrangement & testing the job with tesing equipment. Scraping carbon layer with MRE paper wash with crc. Refixing the job after necessary repairing etc. complete as required. (Aiginia -1job) Dening the front panel of 48 KVA oil cooled AVR & testing the function of the avr with testing equipment. Refixing the covers after necessary repairing / replacement of the components etc. complete as required. (TE Forest Park & CIFA) Supply & fixing of 60 A variac after dismentling the burnt variac from the job, making interconnection between variac & buck boost transformer. Testing the variac with supply for proper function etc. complete as required. (TE Aiginia) Supply & fixing of following damaged/burnt materials- a) Servo motor control card complete control transformer (CIFA -1no, Aiginia - 1no) 2 c) 3 pole power contactor (MNX50) (Forest Park-1no, CIFA-1no) a) 0-300 V range voltmeter (CIFA-2nos,Forest Park-1no) e) Over voltage protection relay complete with	Description of Items Description of Items Description of Items Price excluding GST 9%	Description of Items Description of Items	Description of Items Description of Items Description Description of Items Descrip	Description of Items Qty Price excluding GST Price inclusive of inclusive of all & GST	Description of Items Description of Items Qty Price GST Price mindusive of all & GST Manual inclusive of all & Manual &

		Total	
Less credit for unserviceable materials	(-)		1,000.00

Note: The bidders / tenderers should ensure that thay are GST compliant and their quoted tax structure / rates are as per GST law. BSNL will avail of applicable input tax credit for which the agency should submit invoice showing GST component separately.

Sub Divisional Engineer (E), BSNL Electrical Sub Division-II, BBSR.