BHARAT SANCHAR NIGAM LIMITED (NOTICE INVITING TENDER)

	SI No.	Name of work	Estimated cost.(Rs.)	EMD (Rs).	Time	NIT No.
		Replacement of faulty/damaged free cooling exhaust fans at different BTS sites under Bhubaneswar SSA. (Site:-Siripur, Sumitra complex, Baghmari, Rajabazar, Patrapada, Bhimatangi, Kapileswar Road & Park tower)	48529	971	5 days	NIT No-46/BSNL-BSR/20-21



A/A & E/S Reference	ARMO	
T/S No.		

Tender paper cost (Non refundable)		
Rs.	177.00	
Last Date of receipt of application:-	28.11.2020	(upto 4.00PM)
Last Date of tender paper sale:-	28.11.2020	(upto 5.30PM)
Last Date of tender paper receipt:	01.12.2020	(upto 3.00PM)
Date of opening:-	01.12.2020	(after 3.30 PM)

Eligibility Criteria :-

BSNL Enlisted Electrical Contractor

- All other terms & conditions as per BSNL EW-6 and BSNL EW-8 form.
- 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 seputdoor type Transformer Sub station for 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 ,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 ,GMTD,BBSR 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 .

- 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-1(10)/ESD1/BBS/2020-21/62

Date-11.11.2020.

- 1) The S.E(E), BSNL Electrical Circle, 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

Sub Divisional Engineer (E), BSNL Electrical Sub Division-I, Bhubaneswar.

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BHARAT SANCHAR NIGAM LIMITED

(A Govt. of India Enteprise)

Bhubaneswar SSA.	ehalf of the BSNL from ele Ity/damaged free cooling (Site:- Siripur, Sumitra c war Road & Park tower)	g exhaust fans at diffe	erent BTS sites unde	r	
The work is estimated to cost F	Rs. [48529.00	This estimate howeve	er is given merely as a rough	າ guide.
Tender will be issued complted work of magnitude as s		BSNL Enlisted Electrical (ion at page No. 4.	Contractor		
2). Agreement shall be drawn with his rates as per various tems and				s a Govt. of India publication	n, tender shall quote
3). The time allowed for carrying	out the work will be		5 days		
4) . The availablity of individual s	ite will be specified in the	award letter.			
5) . Receipt of applications for iss will be stopped two days before the			ys before the date fixed	d for opening of tenders. Iss	ue of tender forms
Tender documents consists of pla conditions of contract to be comp ,BSNL ELECTRICAL SUB DIVIS excluding standard form, will be is	lied with and other necess ION , Bhubaneswar betwe	sary documents can be en 11.00 AM & 04.00 F	seen in the office of the PM every day except o	ne Sub Divisional Engineer (n Sunday and public Holida	(E)
6). The tender must produce an 02.07.1970 as amended from tim				Ministry of Finance O.M. No). 67/30/69/ITAL dated
7). Tenders, which should always	be in sealed envelope, wi	th the name of work ar	nd due date written on	the envelope, will be receive	ed by
Sub Divisional Engineer (E), BSN Division-I, Bhubaneswar. on the same day at 03.30 PM.	NL Electrical Sub	up to 03.00 PM on	01.12.2020 and	will be opened by him or his	s authorized representative in his office
8) The tender shall be accompan Accounts Officer (CASH),BSNL, (e form of DD of a scheduled alized Bank .	d Bank issued in favour of
9). The description of the work is	a follows :-				

Name of the work :Replacement of faulty/damaged free
cooling exhaust fans at different BTS sites
under Bhubaneswar SSA. (Site:- Siripur,
Sumitra complex, Baghmari, Rajabazar,

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 satisty 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 accommodation 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 sc 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 account ant 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-I, Bhubaneswar.

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/	PFRSON:

I S/O	R/O	
stage, it is found that the information give prior intimation to me.	is defined below is/ are employed in BSNL unit as per details given in the te by me is false / incorect, BSNL shall have absolute right to take any action	
a) Members of Hindu Undivideb) They are husband and wife	d family,	
c) The one is related to the ot	er in the manner as father, mother, son(s) & son's wife (daughter- in - law), vife , sister(s) & sister's husband(brother in law).	Daughter(s) & daughter's husband (son-
	Signature of the firm / person.	
	DECLARATION	
I	(full name of Tenderer) hereby eclare that I am fully aware of	the terms and conditions of contracts
for work presently prevailing in the Civil V	ng of BSNL . I also declare that, I have thoroughly gone through the terms a	and agreements as contained in various clauses
clausesand Sub - Clauses of terms P.W.	8 I/c up to date amendments therein . I	(full name of contractor)
further declare that while submitting the	ender for	
		(full name of work).
I fully agree to abide by the at	resaid 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 liablities I.e. duties	etc. arising out of 46th amendments of constitution of India.	
Date :-	(Full singnature of the tenderer)	
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GENERAL SPECIFICATIONS.

- 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 of 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 pres4nce of the Engineering in Change 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.

Sub Divisional Engineer (E), BSNL Electrical Sub Division-I, Bhubaneswar.

"ESSENTIAL CONDITIONS OF CONTRACT"

The firm shall read care3fully 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 tenderer. 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.

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 guoted 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.
- 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 complay will attract penalty as per agreement.
- If any conduit is laid before award of work recovery for the same will be made from contractor at the rate of S.R-2007 + 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.
- 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.
- 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.
- On completion of installation following tests shall be carried out:;-
- A) Insulation resistance test. B) Polarity test. C) Earth continuity test. D) Earth eletrode resistance test.
- On completion of electrical instalation a certificate shall be furnished by the contractor in prescribed proforma, this certificate shall be in addition to the certificiate required by local electric supply company.
- 15 Breaking capacity of MCBs should be 10 KA.

List of Approved makes for Sub Station Works

List of Ap	proved makes for Sub Station Works	
		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.)
1	HV SWITCHGEAR	
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/ KANOHAR (MEERUT)/ ITL RAJASTHAN TRANSFORMER & SWITCHGEAR JAIPUR
3	ACB	L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE POWER CONTROLS
4	МССВ	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	СТ	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

	1	1					
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 Ap	proved 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	CONTROL & SWITCHGEAR					
4	мссв	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				
17	RUBBER MATTING	ISI MARK				
18	CABLES					
	A. UPTO 1.1 KV GRADE	SI 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 El and fans, F	ump sets and Compound Light Works				
1	ACB	L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE POWER CONTROLS				
2	мссв	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	ст	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				

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14	SINGLE PHASING PREVENTOR	L&T/ MINILEC/ ZEROTRIP/ 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/ KIRLOSKAR/ 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 Ap	proved 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	EXIDE/ STANFORD/ FURUKAWA/ AMCO/ PACE				

_	T					
	AND MAINTENANCE FREE)	SETTER/ NICCO/ PRESTOLITE/ AMAR RAJA/STANDARD/ CROMPTON GREAVES/ HITACHI				
9	CONDUIT	ISI MARK				
List of A	oproved 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	мссв	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	ст	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/ ZERO1	.&T/ MINILEC/ ZEROTRIP/ SIEMENS				
19	GM VALVE	FOUNTAIN- ISI MARK	/ TRISHUL/LEAD	ER/ SANT/ AN	NNPURNA		
20	GAUGES	FIEBIG/ H-GURU/ PRI	FIEBIG/ H-GURU/ PRICOL				
21	PUMPS	KSB/ BEACON/ KIRLC	KSB/ BEACON/ KIRLOSKAR/ BATLIBOI/ JYOTI/WASP/ BE/ CROMPTON/ PEC/ MATHER&PLATT				
22	SPRINKLER	ISI MARK					
List of Approved makes for Air Conditioning Works							
1	MOTOR	SIEMENS/ CROMPTO	N GREAVES/ HB	B/ KEC/BHAF	RAT BIJLEE/ ABB/ ME	I/ SPARTON/ NGEFGE	<u> </u>
2	COMPRESSOR	VOLTAS/ KIRLOSKAR TRANE	COPELAND/ BA	TLIBOI/ CARI	RIER/ KPC CARRIER/	COPELAND/ ACCEL/I	BLUE STAR/
3	STARTER	SIEMENS/ L&T/ BCH/	ABB/ MEI GE PO	WER CONTR	OLS		
4	MCB, ISOLATOR AND DISTRIBUTION	BENTEX/ CLARITON/	HAVELLS/ INDO-	KOPP/			
	BOARD	SIEMENS/ STANDARI	D/ SCHNEIDER/ N	/IDS			
5	GI / MS PIPE	TATA/ ATL/ ITC/ ATC/	IIA/ JST/ ITS/ JIN	DAL 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/LEA	ADER/ SANT			
8	SPP / OVERLOAD UNIT	L&T/ MINILEC/ ZEROT	RIP/ SIEMENS				
9	RESIN BOND GLASS WOOL	FIBRE GLASS/ PILKIN	IGTON/ UPTWIG	4			
10	EXPANDED POLYSTERENE	BASE (INDIA) LTD.					
11	GAUGES	FIEBIG/ H-GURU/ PRI	COL				
12	CONTROLS	INDFOSS/ HONEYWE	LL/ SPORLAN/ R	ANCO/RANU	TROL/ PENN/ DANFO	OSS/ FLICA	
13	FRESH AIR FAN IFINE FILTERS FOR FRESH AIR EU-2	GE/ KHAITAN					
14	(COARSE FILTER, EFFICIENCY 90% DOWN TO 20 MICRONS) AND EU-3 (FINE FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS)	DYNA/ TENACITY/ KIF EFFULENT	RLOSKAR/ PURO	MATIC/AITE(CH/ FURAFILL/ ARW/	ATHLETE/ PUROLATO	OR/ ANFILTRA

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	СТ	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	Place of Issue
1	2	3	4	5
	As mentioned in the Scheo			

SCHEDULE 'F'

Reference to General Conditions of contract.

Name of work:	different BTS sites under Bhubanesy	Replacement of faulty/damaged free cooling exhaust fans at different BTS sites under Bhubaneswar SSA. (Site:-Siripur, Sumitra complex, Baghmari, Rajabazar, Patrapada, Bhimatangi, Kapileswar Road & Park tower)	
Estimated cost of work:	48529.00		
Earnest money:	971		
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 Rs6 lacs.	

GENERAL RULES and DIRECTIONS:

Officer inviting tender:	Sub Divisional Engineer (E), BSNL Electrical Sub Division-I, Bhubaneswar.

Definitions:

2(v) Engineer-in-Charge	Sub Divisional Engineer (E), BSNL	Electrical Sub Division-I, Bhubaneswar.
2(vi) Accepting Authority	Sub Divisional Engineer (E), BSNL	Electrical Sub Division-I, 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. 5 days	
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Authority to give fair and reasonable	SE(E)		
extension of time for completion of			
work.			
Clause 12	NA		
12.1.2 (iii) Schedule of rates for	± the % over the rate entere	d in the schedule of rates	
determining rates for additional, altered			
or, substituted items that cannot be			
determined under 12.1.2 (i)and(ii)			
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

Clause.25

Authori	ty competemt for conciliation	S.E(E) not in charg	ge
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Schedule-A

Name of work:

Replacement of faulty/damaged free cooling exhaust fans at different BTS sites under Bhubaneswar SSA. (Site:- Siripur, Sumitra complex, Baghmari, Rajabazar, Patrapada, Bhimatangi, Kapileswar Road & Park tower)

SI. no.	Description of Items	Quantity	Rate (`) w/o GST	Unit	Amount (`)
1	Checking of exhaust fan with power supply for functionality with & without power supply for taking further action for rectification as required,.	8		nos	
2	Removal of faulty/damaged free cooling exhaust fans afor repair & rectification at workshop after disconnection of power supply. Transportation to repair shop for taking remedial measure. Depositing the rectified fans at subdivision office for further disposal complete as required.	8		nos	
3	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 m3/ hour (1910 CFM) and maximum sound level not more than 60-65 db.	8		nos	
4	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	8		nos	

5 Supply of 3core 1.5sqr and PVC sheathed cop armoured cable i/c layin surface of wall/shelter w or on existing cable tra required.	per conductor un- g of the same on th PVC C- clamps	mtrs
	Sub	Total
	Add 1	8% GST
	Gran	d Total