BHARAT SANCHAR NIGAM LIMITED (NOTICE INVITING TENDER)



SI No	Name of work	Estimated cost.(Rs.)	EMD (Rs).	Time	NIT No.
1	Repairing and painting of the damaged canopy of DG sets of BTS sites at 1) Red cross 2) RIE, Bhubaneswar.		661	07 days	133/BSNL-BSR/18-19

A/A & E/S Reference	ARMO				
T/S No.	33/BSNL- ESDB-II/18-19				
Tender paper cost (Non refundable)	177.00				
Last Date of receipt of application :-	22.10.2018	(upto 4.00PM)			
Last Date of tender paper sale :-	22.10.2018	(upto 5.30PM)			
Last Date of tender paper receipt :-	23.10.2018	(upto 3.00PM)			
Date of opening :-	23.10.2018	(after 3.30 PM)			

Eligibility Criteria :-

- 1 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/218 Dt. 10.10.2018

- 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

NOTICE INVITING TENDER

CPWD - 6

BHARAT SANCHAR NIGAM LIMITED

(A Govt. of India Enteprise)

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

Repairing and painting of the damaged canopy of DG sets of BTS sites at 1) Red cross 2) RIE, Bhubaneswar.

The work is estimated to cost Rs. This estimate however is given	33054.00 excluding GST merely as a rough guide.
1) Tender will be issued to	BSNL enlisted contractors in Electrical category of respective class as per their tendering limits

completed work of magnitude as specificied in press notification at page No. 4.

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 07 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 23.10.2018

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. 661 /- 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 and painting of the damaged canopy of DG sets of BTS sites at 1) Red cross 2) RIE, 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 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 accomodation they may require and in general shal 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 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-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 nonexecutive 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:

I	S/O	R/O
		here by certify that none ofmy relative(S) as
defined b	pelow is/ are employed in BSNL unit as per	details given in the tender documents. In case at any stage, it is found

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 / incorect, 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

1	(full name of Tenderer) hereby eclare that I am fully aware
of the terms and conditions of contracts for work prese	ently prevailing in the Civil Wing of BSNL . I also declare that, I have
thoroughly gone through the terms and agreements a	as contained in various clauses clausesand Sub - Clauses of terms
P.W.D 8 I/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 liablities I.e. duties etc. arising out of 46th amendments of constitution of India.

Date :-

(Full singnature of the tenderer)

Sub Divisional Engineer (E), BSNL Electrical Sub Division-II, BBSR. page-4

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 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.

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

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.

	List of Approved makes for Air Conditioning Works						
1	MOTOR	SIEMENS/ CROMPTON GREAVES/ HBB/ KEC/BHARAT BIJLEE/ ABB/ MEI/ SPARTON/ NGEF/ GE					
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	BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/					
	BOARD	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 FINE FULTERS FOR FRESH AIR EU-2 DVNA/ TENACITY/ KIRLOSKAR/ PUROMATIC /ATTECH / FURAFILL/ 12 COARSE FULTER, EFFICIENCY 95% DOWN TO 20 MICRONS) AND EU-3 (FINE 14 FILTER, EFFICIENCY 95% DOWN TO 5 TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATIONAL 15 GI SHEETS TATA/ SAIL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATIONAL 16 INDICATING LAMPS VAISHNO/ SIEMENS/ LAT/ ASLIGN / MARSHAL/ PACTL/ KAPCE/ MECO ENERCON 18 SELECTOR SWITCH LEXT KAYCEE/ AL/ IMP/ TAKASCE/ MECO ENERCON 19 CT AE/ IMP/ UNIVERSAL/ BASHABH KAYCEE/ MECO ENERCON 10 CT AE/ IMP/ UNIVERSAL/ SISHABH KAYCEE/ MECO ENERCON 11 ACB CONTROLS SWITCH GEAR 12 MCCB LAT/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE PI 13 TPN SWITCH AND HRC FUSES LAT/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE PI 2 MCCB CAT AE/ IMP/ IMARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 3 TPN SWITCH AND HRC FUSES LAT/ SIEMENS/ LOCINTROL & SWITCHGEAR SCHNEIDER/ GE PI 4 CT AE/ IMP/ IMARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME SAIMAETER / VOLTMETER AE/ IMP/ IMARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO
DOWN TO 20 MICRONS) AND EU3 (FINE FLITER, EFFICIENCY 98% DOWN TO 5 MICRONS) 16 GI SHEETS TATA/ SALL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATIONAL 16 GI SHEETS TATA/ SALL/ NIPPON/ DENRO/ HSL/ JINDAL/ NATIONAL 17 AMMETER / VOLTMETER AE/ MPY UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON 18 SELECTOR SWITCH LAT/ KAYCEE/ AE/ IMP/ THAKOOR/ RECO/ VAISHNO/ SALZOR/ RASS CON 19 CT AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON 10 CCB CONTROLS SWITCH AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ LAT/ ASHMOR/ INDOCOIL/ WACO/ ME 1 ACB List of Approved makes for El and fans, Pump sets and Compound Light Works 1 ACB CONTROLS SWITCHGER/ SCHNEIDER/ GE PR 2 MCCB CONTROLS SWITCH AND HRC FUSES LAT/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE PR 3 TPN SWITCH AND HRC FUSES LAT/ SIEMENS/ HAVELS/ HH ELCON/SCHNEIDER/ STANDARD (UPTO 400 POWER CONTROLS POWER CONTROLS 4 CT AE/ IMP/ INARSHAL/ PACTIL/ KAPPA/ LAT/ ASHMOR/ INDOCOIL/ WACO/ ME SAMMETER / VOLTMETER 3 ELECTOR SWITCH LAT/ KAYCEE/ AE/ IMP/ INARCH/ ASSCONROL/ TEKNIC/ SCHNE 4 CT AE/ IMP/ INARSHAL/ PACTIL/ KAPPA/ LAT/ ASHMOR/ INDOCOIL/ WACO/ ME 5 KAMETER / VOLTMETER AE/ IMP/ INARCH/ MARCH/ ASSCONROL/ TEKNIC/ SCHNE 6 SELECT
FILTER, EFFICIENCY 95% DOWN TO 5 MICRONS) 15 GI SHEETS 16 INDICATING LAMPS 17 AMAETER / VOLTMETER 18 ALST VOLTMETER 19 CT 19 CT 19 CT 19 CT 10 ANAETER / VOLTMETER 11 ALST VOLTMETER 12 ALST VOLTMETER 13 SELECTOR SWITCH 14 ACE IMP/ MARSHAL/ PACTIL/ KAYCEE / MECO ENERCON 19 CT 14 ACB 15 GI SELECTOR SWITCH 14 ACB 15 CAST ADPROVED makes for EI and fans, Pump sets and Compound Light Works 15 AMAETER / VOLTMETER 14 CCB 15 TIN SWITCH AND HRC FUSES 16 TIN SWITCH AND HRC FUSES 16 TIN SWITCH AND HRC FUSES 16 TIN SWITCH AND HRC FUSES 17 MICCB 16 CAT 17 MMETER / VOLTMETER
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15 GI SHEETS TATA'SAIL/ NIFPON DENROV HSU JINDAL/ NATIONAL 16 INDICATING LAMPS VAISHNOV SIEMENS/ LAT AE/ IMP/ TRASS CONTROL/ TEKNIC/ SCHNE 17 AMMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ AECO ENERCON 18 SELECTOR SWITCH LÅT/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNOV SALZOR/ RASS CON 19 CT AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON 10 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 1 ACB Låt/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE PL 2 MCCB LÅT/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE PL 3 TPN SWITCH AND HRC FUSES LÅT/ SIEMENS/ CONTROL & SWITCHGEAR/ SCHNEIDER/ GE PL 4 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 5 AMMETER / VOLTMETER AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 6 SELECTOR SWITCH LÅT/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/VAISHNO/ SALZOR/ RASS CON 7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ MARSS CONTROL/ TEKNIC/ SCHNE 6 ALECTOR SWITCH LÅT/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/VAISHNO/ SALZOR/ RASS CON 7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ THAKOOR/ RECO/VAISHNO
Induction Valention Stelleting Lattr AEr IMP? RASS CONTROL/ TEKNIC/ SCHNE KAYCEE 17 AMMETER / VOLTMETER AEr IMP? UNIVERSAL/ RISHABHY KAYCEE/ MECO ENERCON 18 SELECTOR SWITCH Lät/ KAYCEE/ AE / IMP? THAKOOR/ RECO' VAISHNO/ SALZOR/ RASS CON 19 CT AE/ IMP? MARSHAL/ PACTIL/ KAPPA/ Lät/ ASHMOR / INDOCOLL/ WACO/ ME 19 CT AE/ IMP? MARSHAL/ PACTIL/ KAPPA/ Lät/ ASHMOR / INDOCOLL/ WACO/ ME 10 CT AE/ IMP? MARSHAL/ PACTIL/ KAPPA/ Lät/ ASHMOR / INDOCOLL/ WACO/ ME 1 ACB Lät/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE PC 2 MCCB CONTROLS SWITCHGEAR SCHNEIDER/ GE PC 3 TPN SWITCH AND HRC FUSES Lät/ SIEMENS/ LONTROL & SWITCHGEAR/ SCHNEIDER/ GE PC CONTROLS 4 CT AE/ IMP? MARSHAL/ PACTIL/ KAPPA/ Lät/ ASHMOR / INDOCOL/ WACO/ ME SELECTOR SWITCH Lät/ SIEMENS/ HAVELS/ HH ELCON/SCHNEIDER/ SAS CONTROL / TEKNIC/ SCHNE 5 AMMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON SALZOR/ RASS CONTROL / TEKNIC/ SCHNE 6 SELECTOR SWITCH Lät/ IMP/ INAKOR/ INDOCOL/ WACO/ ME SALZOR/ RASS CONTROL / TEKNIC/ SCHNE 7 INDICATING
16 INDICATING LAMPS KAYCGE 17 AMMETER / VOLTMETER AE/IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON 18 SELECTOR SWITCH L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNO/ SALZOR/ RASS CON 19 CT AE/IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOLU WACO/ ME 19 CT AE/IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOLU WACO/ ME 1 ACB CONTROLS SWITCH GEAR 2 MCCB L&T/ SIEMENS/ CONTROL SWITCHGEAR 3 TPN SWITCH AND HRC FUSES L&T/ SIEMENS/ INVERSAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOLU WACO/ ME 4 CT AE/IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOLU WACO/ ME 5 AMMETER / VOLTMETER AE/IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOLU WACO/ ME 6 SELECTOR SWITCH L&T/ SIEMENS/ HAVELLS/ HE LCON/SCHNEIDER/ SALZOR/ RASS CONT 7 INDICATING LAMPS VAISHNO/ SIEMENS/ LAT/ AE/ IMP/ TAKOEO/ MECO/VAISHNO/ SALZOR/ RASS CONT 6 SELECTOR SWITCH L&T/ KAYCEE/ AE / IMP/ THAKOGN/ RECO/VAISHNO/ SALZOR/ RASS CONT 7 INDICATING LAMPS VAISHNO/ SIEMENS/ LAT/ AE/ IMP/ TAKOEO/ MECO/VAISHNO/ SALZOR/ RASS CONT 7 INDICATING LAMPS VAISHNO/ SIEMENS/ 8
17 AMMETER / VOLTMETER AE//IMP/ UNIVERSAL/ RISHABHY KAYCEE/ MECO ENECON 18 SELECTOR SWITCH L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNO/ SALZOR/ RASS CON 19 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 19 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 11 ACB LST / SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE PC 2 MCCB CONTROLS SWITCHGEAR SCHNEIDER/ SCHNEIDER/ SCHNEIDER/ GE PC 3 TPN SWITCH AND HRC FUSES L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE PC 4 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 5 AMMETER / VOLTMETER AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 6 SELECTOR SWITCH L&T/ SIEMENS/ HAVELLS/ HH ELCON/SCHNEIDER/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ THAKOOR/ RECOVAISHNO/ SALZOR/ RASS CON 7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ THAKOOR/ RECOVAISHNO/ SALZOR/ RASS CON 8 CAPACITORS (APP TYPE) KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USHA/ AE 9 CABLES SI MARK B. ABOVE 11 KV GRADE 9 CABLES
18 SELECTOR SWITCH L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/ VAISHNO/ SALZOR/ RASS CON 19 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 19 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 1 ACB List of Approved makes for EI and fans, Pump sets and Compound Light Works 1 ACB List of Approved makes for EI and fans, Pump sets and Compound Light Works 2 MCCB List 7, SIEMENS/ CONTROL & SWITCHGEAR/ SCHNEIDER/ GE PC/ CONTROLS 3 TPN SWITCH AND HRC FUSES L&T/ SIEMENS/ HAVELLS/ HELCON/SCHNEIDER/ STANDARD (UPT0 400 PO/WER CONTROLS 4 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 5 AMMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON 6 SELECTOR SWITCH L&T/ SIEMENS/ LAT/ AE/ IMP/ THAKOGY RECOVAISHNO/ SALZOR/ RASS CONTROL / TEKNIC/ SCHNE 7 INDICATING LAMPS VAISHNO/ SIEMENS/ LAT/ AE/ IMP/ MARSHAL/ PACE/ MACO/ RECOVAISHNO/ SALZOR/ RASS CONTROL / TEKNIC/ SCHNE 8 CAPACITORS (APP TYPE) KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USA/ A 9 CABLES
19 CT AE/IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 19 CT List of Approved makes for EI and fans, Pump sets and Compound Light Works 1 ACB L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE PC CONTROLS 2 MCCB L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE PC CONTROLS 3 TPN SWITCH AND HRC FUSES L&T/ SIEMENS/ CONTROL & SWITCHGEAR/ SCHNEIDER/ STANDARD (UPTO 400 POWER CONTROLS 4 CT AE/IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 5 AMMETER / VOLTMETER AE/IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 6 SELECTOR SWITCH L&T/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AZ/ IMP/ THAKOOR/ RECOVAISHNO/ SALZOR/ RASS CONTROL/ TEKNIC/ SCHNE 8 CAPACITORS (APP TYPE) KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USHA/ A 9 CABLES ISI MARK E 10 PVC INSULATED COPPER CONDUCTOR ISI MARK E 11 FIRE EXTINGUISHER ISI MARK E 12 RUBBER MATTING ISI MARK E 13
19 CT List of Approved makes for El and fans, Pump sets and Compound Light Works 1 ACB L&T SWITCHGEAR SWITCHGEAR SCHNEIDER/ GE PC 2 MCCB CONTROLS SWITCHGEAR SCHNEIDER/ SE PC 3 TPN SWITCH AND HRC FUSES L&T SIEMENS/ CONTROLS SWITCHGEAR SCHNEIDER/ SAMMETER/ SCHNEIDER/ STANDARD (UPT0 400 POWER CONTROLS 4 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME SAMMETER / VOLTMETER AE/ IMP/ MARSHAL/ PACTIL/ KAPCE/ MECO ENERCON 6 SELECTOR SWITCH L&T/ KAYCEE/ AE / IMP/ THAKOOR RECOVAUSHNO'S ALZOR RASS CONT 7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL SCHNE/ 7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL SCHNE/ SCHNE SCHNE SCHNE SCHNE/
1 ACB L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE PC 2 MCCB L&T/ SIEMENS/ CONTROL & SWITCHGEAR SCHNEIDER/ GE PC 3 TPN SWITCH AND HRC FUSES L&T/ SIEMENS/ CONTROL & SWITCHGEAR/ SCHNEIDER/ GE PC 4 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 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 KAYCEE 8 CAPACITORS (APP TYPE) KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USHA/ AE 9 CABLES ISI MARK 8 A. UPTO 1.1 KV GRADE ISI MARK 9 CABLES ISI MARK 11 FIRE EXTINGUISHER ISI MARK 12 RUBBER MATTING ISI MARK 14 SINGLE PHASING PREVENTOR ISI MARK 13 CABLE OCOPPER CONDUCTOR ISI MARK 14 RUBBER MATTING ISI MARK 15 TIMER ISI MARK 16 RODONE L&T/ MINILEC/ ZEROTRIP/ SIEMENS 15 TIMER I
1 ACB CONTROLS 2 MCCB L&T/ SIEMENS/ CONTROL & SWITCHGEAR/ SCHNEIDER/ GE PC CONTROLS 3 TPN SWITCH AND HRC FUSES L&T/ SIEMENS/ HAVELLS/ HH ELCON/SCHNEIDER/ STANDARD (UPTO 400 POWER CONTROLS) 4 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 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/ SCHNE KAYCEE 8 CAPACITORS (APP TYPE) KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USHA/ AE 9 CABLES E 4 DYC INSULATED COPPER CONDUCTOR ISI MARK 9 VAISHNO/ SIEMENS/ L&T/ ME/ MASK BADOVE 1.1 KV GRADE 9 CABLES E 10 PVC INSULATED COPPER CONDUCTOR ISI MARK 11 FIRE EXTINGUISHER ISI MARK 12 RUBBER MATTING RACHEM/ M-SEAL/ DENSONE 14 SINGLE PHASING PREVENTOR L&T/ NINILEC/ ZEROTRIP/ SIEMENS 15 TIMER L&T/ SIEMENS/ MINILEC/ TELEMECHANIQUE/ AE
1 ACB CONTROLS 2 MCCB L&T/ SIEMENS/ CONTROL & SWITCHGEAR/ SCHNEIDER/ GE PC CONTROLS 3 TPN SWITCH AND HRC FUSES L&T/ SIEMENS/ HAVELLS/ HH ELCON/SCHNEIDER/ STANDARD (UPTO 400 POWER CONTROLS 4 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 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 KAYCEE 8 CAPACITORS (APP TYPE) KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USHA/ AE 9 CABLES AE 4 DYC INSULATED COPPER CONDUCTOR ISI MARK 9 CABLES ESI MARK 10 PVC INSULATED COPPER CONDUCTOR ISI MARK 10 PVC INSULATED COPPER CONDUCTOR ISI MARK 12 RUBBER MATTING ISI MARK 13 CABLE JOINTS RACHEM/ M-SEAL/ DENSONE 14 SINGLE PHASING PREVENTOR L&T/ NINILEC/ ZEROTRIP/ SIEMENS 15 TIMER ISI MARK 14 SIGLE PHASING PREVENTOR L&T/ SIEMENS/ MINILEC/ TELMECHANIQUE/
2 MCCB CONTROLS 3 TPN SWITCH AND HRC FUSES L&T/ SIEMENS/ HAVELLS/ HH ELCON/SCHNEIDER/ STANDARD (UPTO 400 POWER CONTROLS 4 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 5 AMMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON 6 SELECTOR SWITCH L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/VAISHNO/ SALZOR/ RASS CONT 7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL/ TEKNIC/ SCHNE 8 CAPACITORS (APP TYPE) KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USHA/ AE 9 CABLES E A. UPTO 1.1 KV GRADE ISI MARK ISI MARK 10 PVC INSULATED COPPER CONDUCTOR 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/ IMILEC/ ZEROTRIP/ SIEMENS 15 TIMER LAT/ SIEMENS/ MINILEC/ TELMECHANIQUE/ AE 16 MCB, ISOLATOR AND DISTRIBUTION BENTEX/ CLARITON/ HAVELLS/ ONTROL & SWITCHGEAR HH ELCON 17 CHANGEOVER SWITCH ISI MARK <
POWER CONTROLS 4 CT AE/ IMP/ MARSHAL/ PACTIL/ KAPPA/ L&T/ ASHMOR/ INDOCOIL/ WACO/ ME 5 AMMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON 6 SELECTOR SWITCH L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECORVAISHNO/ SALZOR/ RASS CON 7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL/ TEKNIC/ SCHNE 8 CAPACITORS (APP TYPE) KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USHA/ A 9 CABLES ISI MARK 10 VIC INSULATED COPPER CONDUCTOR 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/ SIEMENS/ MINILEC/ TELEMECHANIQUE/ AE 15 TIMER L&T/ SIEMENS/ MINILEC/ ZEROTRIP/ SIEMENS 16 MCB, ISOLATOR AND DISTRIBUTION BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNE 17 CHANGEOVER SWITCH STANDARD/ HAVELLS/ CONTROL & SWITCHGEAR HH ELCON 18 PIANO SWITCH ISI MARK 19 MONOBLOCK PUMP SET KSB/ BEACON/ KIRL
4 CT 5 AMMETER / VOLTMETER AE/ IMP/ UNIVERSAL/ RISHABH/ KAYCEE/ MECO ENERCON 6 SELECTOR SWITCH L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/VAISHNO/ SALZOR/ RASS CON 7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL/ TEKNIC/ SCHNE 8 CAPACITORS (APP TYPE) KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USHA/ A 9 CABLES KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USHA/ A 4 LUPTO 1.1 KV GRADE ISI MARK 8 AAOVE 1.1 KV GRADE ISI MARK 9 CABLES SI 10 WIRE ISI MARK 11 FIRE EXTINGUISHER ISI MARK 12 RUBBER MATTING ISI MARK 13 CABLE JOINTS RACHEM/ MSEAL/ DENSONE 14 SINGLE PHASING PREVENTOR L&T/ MINILEC/ ZEROTRIP/ SIEMENS 15 TIMER L&T/ MINILEC/ ZEROTRIP/ SIEMENS 16 MCB, ISOLATOR AND DISTRIBUTION BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNE 17 CHANGEOVER SWITCH ISTANDARD/ HAVELLS/ CONTROL & SWITCHGEAR HH ELCON 18 PANO SWITCH ISI MARK 19
6 SELECTOR SWITCH L&T/ KAYCEE/ AE / IMP/ THAKOOR/ RECO/VAISHNO/ SALZOR/ RASS CON 7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL/ TEKNIC/ SCHNE 8 CAPACITORS (APP TYPE) AE 9 CABLES INIDICATING LAMPS A. UPTO 1.1 KV GRADE ISI MARK 9 CABLES ISI MARK 10 PVC INSULATED COPPER CONDUCTOR ISI MARK 10 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/ ZEROTRIP/ SIEMENS 15 TIMER L&T/ SIEMENS/ MINILEC/ TELEMECHANIQUE/ AE 16 MCB, ISOLATOR AND DISTRIBUTION BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNE 13 CHANGEOVER SWITCH STANDARD/ HAVELLS/ CONTROL & SWITCHGEAR HH ELCON 18 PIANO SWITCH ISI MARK 19 MONOBLOCK PUMP SET KSB / BEACON/ KIRLOSKAR/ BATLIBOI/ JYOT//BE/ CROMPTON/ MATHER&PLATI/MASP 21 GI / MS PIPE
6 SELECTOR SWITCH VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS_CONTROL/ TEKNIC/ SCHNE 7 INDICATING LAMPS KAYCEE 8 CAPACITORS (APP TYPE) KHATAU JUNKER/ SCHNEIDER/ L&T/ IMP UNIVERSAL ELECTRIC/ USHA/ A 9 CABLES 4 UPTO 1.1 KV GRADE ISI MARK 9 CABLES 10 INSULATED COPPER CONDUCTOR ISI MARK 11 FIRE EXTINGUISHER ISI MARK 12 RUBER 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/ TELEMENDATINUE/ AE 16 MCB, ISOLATOR AND DISTRIBUTION BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNE 16 MCB, ISOLATOR AND DISTRIBUTION BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNE 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/ MATHER&PLATT/WASP 20 STARTER L&T/
1 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL/ TEKNIC/ SCHNE 7 INDICATING LAMPS VAISHNO/ SIEMENS/ L&T/ AE/ IMP/ RASS CONTROL/ TEKNIC/ SCHNE 8 CAPACITORS (APP TYPE) AE 9 CABLES ISI MARK 4. UPTO 1.1 KV GRADE ISI MARK 9 CABLES ISI MARK 10 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 / SIEMENS/ MINILEC/ ZEROTRIP/ SIEMENS 15 TIMER L&T / SIEMENS/ MINILEC/ TELEMECHANIQUE/ AE 16 MCB, ISOLATOR AND DISTRIBUTION BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNE 13 CHANGEOVER SWITCH STANDARD/ HAVELLS/ CONTROL & SWITCHGEAR HH ELCON 17 CHANGEOVER SWITCH ISI MARK 18 PIANO SWITCH ISI MARK 19 MONOBLOCK PUMP SET KSB/ BEACON/ KIRLOSKAR/ BATLIBOI/ JYOTI/BE/ CROMPTON/ MATHER&PLATT/WASP 20 STARTER L&T/ SIEMENS/ BCH/ ABB/ MEI/ GE POWER CONTROLS 21 GATE VALV
7 INDICATING LAMPS KAYCEE 8 CAPACITORS (APP TYPE) AE 9 CABLES AE 9 CABLES ISI MARK 8 A. UPTO 1.1 KV GRADE ISI MARK 9 CABLES ISI MARK 10 PVC INSULATED COPPER CONDUCTOR 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/ ZEROTRIP/ SIEMENS 15 TIMER L&T/ SIEMENS/ MINILEC/ TELEMECHANIQUE/ AE 16 MCB, ISOLATOR AND DISTRIBUTION BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNE 18 MCB, ISOLATOR AND DISTRIBUTION BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNE 18 PIANO SWITCH ISI MARK 19 MONOBLOCK PUMP SET KSB/ BEACON/ KIRLOSKAR/ BATLIBOI/ JYOTI/BE/ CROMPTON/ 14 PIANO SWITCH ISI MARK 19 MONOBLOCK PUMP SET KSB/ BEACON/ KIRLOSKAR/ BATLIBOI/ JYOTI/BE/ CROMPTON/ 10 MONOBLOCK PUMP SET KSB/ SALANA/ AMRU/ ABB/ MEI/ GE POWER CONTROLS
8 CAPACITORS (APP TYPE) AE 9 CABLES
9 CABLES ISI MARK A. UPTO 1.1 KV GRADE ISI MARK B. ABOVE 1.1 KV GRADE ISI MARK 10 PVC INSULATED COPPER CONDUCTOR 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 BOARD BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNE MDS/SIEMENS 17 CHANGEOVER SWITCH ISI MARK 18 PIANO SWITCH ISI MARK 19 MONOBLOCK PUMP SET KSB/ BEACON/ KIRLOSKAR/ BATLIBOI/ JYOTI/BE/ CROMPTON/ MATHER&PLATT/WASP 20 STARTER L&T/ SIEMENS/ BCH/ ABB/ MEI/ GE POWER CONTROLS 21 GI / MS PIPE BST/ TATA/ ATL/ ITC/ IA/ JUST/ ITS/JINDAL/ ZENITH/ GSI/ TTA 22 STARTER L&T/ SIEMENS/ BCH/ ABB/ MEI/ GE POWER CONTROLS 21 GI / MS PIPE BST/ TATA/ ATL/ ITC/ IA/ JUST/ ITS/JINDAL/ ZENITH/ GSI/ TTA 22 FOOT VALVE ISI MARK 23 GATE VALVE <t< td=""></t<>
B. ABOVE 1.1 KV GRADE ISI MARK 10 PVC INSULATED COPPER CONDUCTOR ISI MARK 11 FIRE EXTINGUISHER ISI MARK 12 RUBBER MATTING ISI MARK 13 CABLE JOINTS RACHEW/ M-SEAL/ DENSONE 14 SINGLE PHASING PREVENTOR L&T/ MINILEC/ ZEROTRIP/ SIEMENS 15 TIMER L&T/ SIEMENS/ MINILEC/ TELEMECHANIQUE/ AE 16 BOARD BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNE 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/ MATHER&PLATT/WASP 20 STARTER L&T/ SIEMENS/ BCH/ ABB/ MEI/ GE POWER CONTROLS 21 GI / MS PIPE BST/ TATA/ ATL/ ITC/ IA/ JUST/ ITS/JINDA/ 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 <td< td=""></td<>
B. ABOVE 1.1 KV GRADE ISI MARK 10 PVC INSULATED COPPER CONDUCTOR 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/ ZEROTRIP/ SIEMENS 15 TIMER L&T/ SIEMENS/ MINILEC/ TELEMECHANIQUE/ AE 16 MCB, ISOLATOR AND DISTRIBUTION BOARD BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNE 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/ 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 23 GATE VALVE FOUNTAIN/ TRISHUL/ SANT/ ANNPURNA LEADER
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15 TIMER L&T/ SIEMENS/ MINILEC/ TELEMECHANIQUE/ AE 16 MCB, ISOLATOR AND DISTRIBUTION BOARD BENTEX/ CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ SCHNE 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/ 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 21 EINGINE CUMMINS/ RUSTON/ ESCORTS/ KEOL/ CATER PILLAR/ ASHOK LEY
MCB, ISOLATOR AND DISTRIBUTION BOARD BENTEX/ MDS/SIEMENS CLARITON/ HAVELLS/ INDO-KOPP/STANDARD/ INDO-KOPP/STANDARD/ SCHNE MDS/SIEMENS 17 CHANGEOVER SWITCH STANDARD/ HAVELLS/ CONTROL & SWITCHGEAR HH ELCON 18 PIANO SWITCH ISI MARK 19 MONOBLOCK PUMP SET KSB/ 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 21 ELIST of Approved makes for EA Set Works 1 1 ENGINE CUMMINS/ RUSTON/ ESCORTS/ KEOL/ CATER PILLAR/ ASHOK LEY GREAVES/VOLVO PENTA (200-500 KVA)
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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/ 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 21 EINGINE CUMMINS/ RUSTON/ ESCORTS/ KEOL/ CATER PILLAR/ ASHOK LEY
19 MONOBLOCK PUMP SET KSB/ BEACON/ KIRLOSKAR/ BATLIBOI/ JYOTI/BE/ CROMPTON/ 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 21 EIST of Approved makes for EA Set Works 1 1 ENGINE CUMMINS/ RUSTON/ ESCORTS/ KEOL/ CATER PILLAR/ ASHOK LEY
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19 MONOBLOCK PUMP SET 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 21 List of Approved makes for EA Set Works 1 1 ENGINE CUMMINS/ RUSTON/ ESCORTS/ KEOL/ CATER PILLAR/ ASHOK LEY GREAVES/VOLVO PENTA (200-500 KVA)
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 1 ENGINE CUMMINS/ RUSTON/ ESCORTS/ KEOL/ CATER PILLAR/ ASHOK LEY GREAVES/VOLVO PENTA (200-500 KVA)
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 21 ENGINE CUMMINS/ RUSTON/ ESCORTS/ KEOL/ CATER PILLAR/ ASHOK LEY GREAVES/VOLVO PENTA (200-500 KVA)
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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 EA Set Works 1 ENGINE CUMMINS/ RUSTON/ ESCORTS/ KEOL/ CATER PILLAR/ ASHOK LEY GREAVES/VOLVO PENTA (200-500 KVA)
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STAMFORD/ CROMPTON GREAVES (SLIP RING/BRUSHLESS, 6-200 KVA)/ AV (UPTO 250 KVA)/ ELECTRODYNE (UPTO 100 KVA)/ CROMPTON GREAVES AL S (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
A MCCB 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
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

PROFORMA OF SCHEDULES

(Operative Schedules to be supplied separately to each intending tenderer) <u>SCHEDULE 'B'</u> 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							

As mentioned in the Schedule of work

SCHEDULE 'F'

Reference to General Conditions of contract.

Name of work:	Repairing and painting of the damaged canopy of DG sets of BTS sites at 1) Red cross 2) RIE, Bhubaneswar.				
Estimated cost of work:	33054.00				
Earnest money:	661				
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.				
GENERAL RULES and DIRECTIONS:					
Officer inviting tender	Sub Divisional Engineer (E), BSNL Electrical Sub Division-II, BBSR.				
Definitions:					
2(v) Engineer-in-Charge	Sub Divisional Engineer (E), BSNL Electrical Sub Division-II, BBSR.				
2(vi) Accepting Authority	Sub Divisional Engineer (E), BSNL Electrical Sub Division-II, BBSR.				
2(x) Percentage on cost of materials and					
labour to cover all overheads and	10%				
profits.					
Clause 5					
Time allowed for execution of work.	07 days				
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 determining					
rates for additional, altered or, substituted	\pm the % over the rate entered in the schedule of rates				
	\pm the % over the rate entered in the schedule of rates				
12.1.2 (i) and (ii)					
Clause.25					
Authority competemt for conciliation	S.E(E) not in charge				

Schedule-A

Nam	ne of work:	Repairing and painting of the damaged canopy of DG sets of BTS sites at 1) Red cross 2) RIE, Bhubaneswar.							
SI. no.	Description of Items	Qty	Price excluding GST	%	GST Amount	Price inclusive of all & GST	unit	Amount incusive GST	Amount excluding GST
1	2	3	4	5	6	7 = (4+6)	8	9 = (3 x 7)	10 = (3 x 4)
1	Scrapping of rust of the surface of the canopy body including finishing with putty etc. as reqd.	2					job		
2	Providing one coat of anti rust red oxide primer on surface of the canopy body by sprayer as reqd.						job		
3	Painting with two coats of synthetic enamel paint by sprayer machine complete as reqd.	2					job		
4	Supplying & laying 1.5 mm thick plastic felt with bitumen etc. complete as reqd. (approx. 3 sq						job		
5	Pdg and fixing of MS flat for locking arrangement with suitable size nut and bolts etc. as reqd.	1					job		
6	Repairing of the damaged body of the DG canopy with S/F of GI sheet including cutting, screwing and bending etc complete as reqd.						job		
7	Pdg and fixing of stainless steel kabja with nut and bolt arrangement etc for broken doors as complete as reqd.						job		
8	Cleaning of inner portion of canopy by thinner and terpentine etc. as reqd.	2					job		

Total

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.