

**Dr.YSR HORTICULTURAL UNIVERSITY, VENKATARAMANNAGUDEM,  
TADEPALLIGUDEM, WEST GODAVARI DISTRICT - 534 101**

**NOTICE INVITING TENDERS**

**T.N.No.06/HU/EO/TN/2020-21**

**Dt: 25.06.2020**

Sealed tender is invited for the work mentioned below from the contractors registered in I&CAD / R&B/RWS/PR/M&H in any state Government Department registered as per folloing G.o.'s.

1. Name of the work.	: Supply and errection of 4Nos of 400Amps Air Break Switches along 2.80Km 11KV HT line at University campus, Dr.YSRHU, venkataramannagudem, West Godavari District
2. Approximate value of work (ECV)	: Rs.85,682.00
3. Bid Security (EMD) payable to the Executive Engineer, Dr.YSR Horticultural University, payable at Tadepalligudem	: Rs.860.00
4. Period of completion	: 1 Month
5. Processing Fee payable to the Executive Engineer, Dr.YSR Horticultural University, payable at Tadepalligudem	: Rs.100.00
6. Place of receipt of documents	: O/o. the Estate Officer, Admn. Office, Dr.YSRHU, V.R.Gudem, W.Godavari District - 534 101.
7. Class of Contractor / firms eligible for tendering	: Class V (Electrical) as per G.O.MS No.178, I&CAD dated 27-09-1997, G.O.MS No.132, T, R&B dated 11-08-1998, G.O.MS No.94, I&CAD dated 01-07-2003, G.O.MS No.8, T, R&B dated 08-01-2003


Tender document Download start date : 25.06.2020 10:30Am

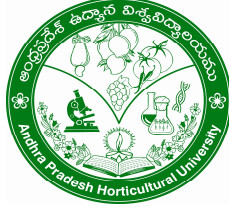
Tender document Download End date :09.07.2020 10:30Am

Last date and time for receipt of bids :09.07.2020 3:30Pm

Tenders opening date : 09.07.2020 4:00Pm

For tender document Visit - [www.drysrhu.edu.in](http://www.drysrhu.edu.in)

  
25/6/20  
**ESTATE OFFICER**  
25/6/20



**Dr.YSR HORTICULTURAL UNIVERSITY  
VENKATARAMANNAGUDEM, TADEPALLEGUDEM  
W.G.DIST-534101**

**TENDER SCHEDULE**

**NAME OF THE WORK: SUPPLY AND ERRECTION OF 4NOS OF 400AMPS AIR  
BREAK SWITCHES ALONG 2.80KM 11KV HT LINE AT UNIVERSITY CAMPUS,  
DR.YSRHU, VENKATARAMANNAGUDEM, WEST GODAVARI DISTRICT**

**Name of the Contractor: .....**

**Address :**

.....

.....

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**SPECIAL CONDITIONS**

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**OFFICE OF THE ESTATE OFFICER**  
ADMINISTRATIVE OFFICE, VENKATARAMANNAGUDEM

**TENDER SCHEDULE**

The schedule contains 2 Pages

Tender Notice No.06/HU/EO/TN/2020-21, DT.25.06.2020

Name of the work: Supply and erection of 4Nos of 400Amps Air Break Switches  
along 2.80Km 11KV HT line at University campus, Dr.YSRHU,  
venkataramannagudem, West Godavari District

Tender schedule issued to:

CONTRACTOR

4

ESTATE OFFICER

Division : VENKATARAMANNAGUEDEM  
Estimate Contract Value : Rs.85,682/-  
Earnest Money Deposit : Rs.860/-  
Cost of Tender Schedule : Rs.100/-  
EMD at the time of Agreement : Rs.1300/-

CONTRACTOR

ESTATE OFFICER

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**FOR OFFICE USE ONLY**

Date of Opening of Tender :  
Whether received in proper form :  
Whether EMD Paid :  
If paid DD No. :  
Name of Branch :  
Date of payment :  
Amount Paid :  
GST Registration No. :  
PAN Number :  
Opened by signature :  
Name :

CONTRACTOR

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ESTATE OFFICER

## 1.0 TENDER NOTICE

1.0 Sealed tenders will be received by the Estate Officer, Dr.YSRHU, Venkataramannagudem from the contractors Registered as class (Civil) as per G.O. Ms. No. 521, Irrigation (PW) dt. 10-12-1984 or as per G.O. Ms. No. 22, T (R&B) dt. 6-2-1998 or as per G.O. Ms No. 132, T (R&B) dt. 11-8-1998 or as per G.O. Ms. No. 178 I & CAD Dept. Dt. 27-9-1997 or as per G.O. Ms. No. 8, TR & B Dept. Dt. 8-1-2003 or as per G.O. Ms No. 94 I&CAD (PW-CAD) Dept. Dt. 1-7-2003 for the work Supply and erection of 4Nos of 400Amps Air Break Switches along 2.80Km 11KV HT line at University campus, Dr.YSRHU, venkataramannagudem, West Godavari District

1.1 Contactors may take Tender Schedules and other information related to the Tender from the Office of the Estate Officer, Dr.YSRHU, Admin.Office, V.R.Gudem, Tadepalligudem, W.G.District during the office hours.

1.2 The Contactors shall deposit the sealed tenders in the tender box kept at the office of the Estate Officer, Dr.YSRHU, Admin.Office, V.R.Gudem, Tadepalligudem, W.G.District at any working days from 11.00 AM to 4.00AM.

1.3 The tender will be opened by the Estate Officer or his authorized representative 09.07.2020 at 4:00 PM in the presence of tenders or their authorized representatives.

1.4 Form of Contract : L. S.

1.5 Period of completion : **One(1) Month**

1.6 Cost of tender Schedule is Rs.100/- (Non-Refundable) be paid by the way of Crossed Demand Draft in favour of Executive Engineer, Dr.YSRHU, Venkataramannagudem, Tadepalligudem.

1.7 Obtaining tender schedule by post and depositing tenders by post shall be at the risk a responsibility of the applicant. In case of loss and delays in transits of having tender schedule and receiving of tender schedule by post the same is to be borne by the contractor and the tender opening authority will not be responsible for consideration of any tender received by him at the expiry date and the time fixed for receipt of tenders.

1.8 Identity card of the contractor issued at the time of registration should invariably be produced by the contractor eligible class for issue of tender schedule and also at the time of submission of tenders, failing which the tender schedule will not be issued nor tender accepted. Contractors may Know tender documents free of cost from Office of the Estate Officer.

- 1.9 However the contractor can authorize any other person for receipt of tender schedule for submission of tenders by enclosing the identity card and authorization letter duly attested by the signature of the person deputed.
- 1.10 The tenderers or their agents are expected to be present at the time of opening of tenders. The tenders receiving office will, on opening of the tender, prepare a statement of the attested and unattested corrections, in presence of the tenderers. If any of the tenderers or their agents find inconvenient to present at the time then in this case the tender receiving officer will on opening the tender of the absentee tenderer make out statement of the unattested corrections and communicate it to him. Absentee tenderer shall then accept the statement of corrections without any questions whatsoever.
- 1.11 (a) If due to any reason the office happens to remain closed on the last date for receipt of applications for issue of tender schedule as specified in Tender Notice the applications for issued tender schedules will be received on the next working day upto the same time and venue the tenders received and opened on the next working day after closure of issue of schedules at the time specified in Tender Notice.
- (B) If due to any reason the office happens to remain closed on the last date for receipt of tenders as specified in Tender Notice the tenders will be received on the next working day at the same time and the tenders will be opened on the next working day to the day specified in Tender Notice.
- 1.12 The tender schedule shall not be transferable.
- 1.13 Tender signed on behalf of GPF holder will be rejected.

## **2.0 Procedure for submission of Tenders**

- 2.1 The contractor may submit the tenders during working hours on any working day from the date of publishing the tender notice upto the last date and time of receipt of tenders indicated in the tender notice at the office of the Estate Officer. Tenders may be submitted by the contractor either in person or through any agent or by post. In case of submission of tenders by post, the risk and responsibility for either loss or delays in transit of the same is to be borne by the contractor and the tender opening authority will not consider any tender received by him, after the expiry of time and date fixed for receipt of tender.
- 2.2 a) the contractors should procure required materials from the quarries' of his choice as per the specification mentioned in the tender schedules.



b) The contractor has to make his own arrangements for procurement/ supply and use of all construction materials including steel cement, bitumen and blasting materials etc.,

2.3 In case of ambiguity in regard to conditions and qualification criteria and other related matters if any with the tenders the decision taken by the estate officer shall be final.

2.4 If the tenderer procure false registration, he/she is subject to be disqualified for misleading in producing such false documents. In addition to above even while execution of work, if found that the contractor has produced false/fake certificates, he/she will be back listed and work will be taken over invoking clause 60(a) of PS to APSS.

2.5 Sealing of covers: The covers should be closed with gum and tape, the tenders shall be considered as unsealed and rejected.

2.6 Further amount @ 7.5% as F.S.D. according to clause 68 of the standard preliminary specifications of the A.P.S.S. shall be retained as security for the due fulfillment of this contract while paying bills for the work done.

### **3.0 Payment of and EMD:**

3.1 EMD at the time of issuing tender schedule:

Each tenderer must pay along with the application, a sum of Rs.860/- (1% of ECV) through crossed demand Draft drawn in any nationalized bank payable at Andhra Bank, Tadepalligudem in favour of the Executive Engineer, Dr.YSRHU, Venkataramannagudem, Tadepalligudem.

3.2 Once the contractor buys the tender schedule he shall not be permitted to return the schedule. After buying the tender – schedule if the contractor do stent tender for the work, his EMD shall be forfeited to the university.

3.3. E.M.D. for successful tenderer:

The EMD will be retained in the case of the successful tenderer and will not carry any interest and the successful tenderer should pay the balance E.M.D. at present rates at the time of signing the agreement for **1 ½ % of ECV** through Crossed Demand Draft drawn in any Nationalized Bank payable at Andhra Bank, Venkataramannagudem in favour of the Executive Engineer, Dr.YSRHU, Venkataramannagudem Division.

#### **4.0 VALIDITY OF TENDERS:**

4.1 The tenders will be decided within a period of three months from the last date prescribed for receipt of tenders and decision regarding acceptance of tender will be intimated within the said period.

4.2 During the above mentioned period no plea by the tenderer for any sort of modification of tender based upon or arising of any ailed mistake or any other reasons will be entertained.

4.3 When the tenderer is under consideration the EMD by the tenderer will be forfeited to the university in the event of such tenderer either modifying or withdrawing tender at his instance within the said validity period.

#### **5.0 Signing of Agreement**

5.1 When the tender is to be accepted, the tenderer whose tender is under consideration, shall, attend the Estate Officer's Office on the date intimated to him in writing. He shall also upon an intimation given to him by the Estate Officer acceptance of his tender make payment of the balance EMD as in 3.2 above and sign an agreement in the proper departmental form for the due fulfillment of this contract. Failure to attend the Estate Officer's office by the date fixed in the written intimation to enter into the required agreement shall entail forfeiture of EMD.

The written agreement to be entered into between the contractor and the University shall be the foundation of the rights of both the parties and contract shall not be deemed to be complete until the agreement has first been signed by the contractor and then by the proper officer authorized to enter into the contract on behalf of the University.

5.2 Tenders must be submitted in sealed covers and should be addressed to the estate officer and the name of the tenderer with address and the name of the work should be noted on the tender cover.

5.3 **Handing over of site:** The date of concluding the agreement is the date of Handing over of site.

#### **6.0 RETURN OF E.M.D. TO UNSUCCESSFUL TENDERER**

The earnest money deposit will be refunded to the unsuccessful tenderer by registered post

at the expiry of the period of validity of tender or the entrustment of the work to the successful Tenderer whichever earlier.

#### **7.0 CONTRACTOR TO SIGN THE A.P.S.S.**

7.1 The tenderer shall examine closely the Andhra Pradesh standard specifications and also the standard Preliminary specifications contained therein, and sign the Estate Officer's office copy of the Andhra Pradesh standard specifications and its addenda volume in token of such study before submitting his tender unit rates which shall be for finished work in site. He shall also carefully study the drawings and additional specifications and all documents which form part of the agreement to be

entered into by the accepted tenderer. The A.P.S.S. and other documents connected with the tender such as specification plans, descriptive specification sheet regarding materials, etc., can be seen at any time during working hours on all working days in the office of the Estate Officer, Dr.YSRHU, Venkataramannagudem. All the agreements will be read with A.P .S.S.

The tenderers attention is directed to the requirements for the material under clause "Materials and workman "ship in the preliminary specification" Material confirming to the Indian Standard Specifications shall be used on the work, and the tenderer shall quote his offer accordingly.

#### **8.0 INSPECTION OF SITE AND QUARRIES BY THE TENDERER**

Every tenderer is expected before filling his tender to inspect the site of proposed work. The best class of materials are to be obtained from the quarries of his choice confirming to specifications mentioned in the Tender Schedules. In every case, the materials must comply with the relevant standard laboratory tests. Samples of materials called for in standard specifications or as required by the Executive Engineer's approval before supply to site of work begins.

#### **9.0 DEFECTS LIABILITY PERIOD AND OTHER CLAUSES OF A.P.S.S.**

- 9.1 The tenderer's particular attention is drawn to the section and clauses in the standard preliminary specification dealing with.
1. Test, Inspection and rejection of defective materials and work.
  2. Carriage
  3. Construction plant
  4. Water and lighting
  5. Cleaning up during progress and for delivery
  6. Accidents
  7. Delays
  8. Particulars of payment
  9. Defects liability
  10. Standard preliminary specifications regarding payment of seigniorage charges royalties and tools etc.
- 9.2 The defect liability period is 24 months for the work. The tenderer should closely read all the specifications clauses which govern the work for which he is tendering.

## **10.0      SCHEDULE OF QUANTITIES**

10.1 Bill of Quantities called Schedule "A". It shall be explicitly understood that the Tender Inviting Officer does not accept any responsibility for the correctness or completeness of: this schedule "A" and this schedule "A" is liable to alterations by omissions, deductions or additions at the discretion of the Estate Officer or as set forth in the conditions of the contract. The Schedule "A" shall contain the items of work indicated as part -I and LS provisions as part-II. The percentage quoted by the contractor shall be applicable only to part-I. However, the provisions contained in the part-II will be operated basing on the conditions provided in the Tender Document. The tenderers will have to state clearly their willingness to execute the work at certain specific percentage of excess or less or at par of the ECV indicated in Part-I at the space provided therein Schedule "A". The L.S. amounts indicated in part-II are maximum reimbursable amounts. The tenderer should however quote his lumpsum tender based on this schedule of quantities. He should quote his offer as a overall tender percentage. The over all tender percentage should be written both in words and figures. The bid offers i.e. percentage shall be written both in figures and words legibly and free from erasures, over writings or corrections of figures. Corrections where unavoidable should be made by crossing out, and rewriting duly initialing with date.

If there is any difference between the figures and wording, the percentage quoted in words will prevail.

10.2 The Schedule-A contains not only the quantities but also the rates worked out by the Department and the amount for each item and total value of the estimated contract. The tenderer should workout his own rates keeping in view the work, site conditions and quote his overall tender percentage with which he intends to execute the work.

10.3 The offer shall be *for* the whole work and not for individual items/part of the work.

10.4 All duties, taxes and other levies payable by the contractor as per State/Central Government / University rules, shall be included in the tender percentage quoted by the tenderer, however keeping in view the maximum reimbursable amounts specified in Part-II of Price bid.

10.5 The tendered contract amount as computed based on overall tender percentage is subject to variation during the performance of the contract in accordance with variation in quantities etc.

## **11.0 CONDITIONAL TENDER**

Tenders not submitted in proper form or in due time will be rejected, alterations which are made by the tenderer in the tender schedule, the conditions of the contract the drawings, specification accompanying the same will not be entertained and if any such alterations are made the tenders will be rejected.

## **12.0 SUB LETTING THE WORKS BY THE CONTRACTORS**

If the prime contractor desires to sub-let a part of the work, he should submit the same at the time of filling tenders itself or during execution, giving the name of the proposed Sub-Contractor, along with details of his qualification and experience. The Tender Accepting Authority should verify the experience of the Sub Contractor and if the Sub-Contractor satisfies the qualification criteria in proportion to the value of work proposed to be sub-let, he may permit the same. The total value of works to be awarded on sub-letting shall not exceed 50% of contract value.

The extent of subletting shall be added to the experience of the sub-contractor and to that extent deducted from that of the main contractor.

**13.0** If further necessary information, is required, the Estate Officer / Executive Engineer will furnish such information. But it must be clearly understood that the tenders must be received in order, and according to instructions.

## **14.0 RIGHT OF REJECTION OF TENDER**

14.1 Tenders with an excess of 5% the estimated rates shall be summarily rejected. However the Estate Officer, DrYSRHU, Venkataramannagudem reserves the right to reject any or all the tenders without assigning any reason whatsoever.

No Negotiations will be entertained.

14.2 The contract is liable for cancellation, if either the contractor himself or any of his employees is found to be a Gazette Officer, who retired from Government service and had not obtained permission from the Government for taking up employment within a period of two years from the date of retirement.

14.3 A contractor shall not be eligible to tender for works in a division where any of his relatives are employed in the rank of Assistant Engineer or Assistant Executive Engineer and above of the Engineering side and a Divisional Accounts Officer and above in the administrative side. The tenderer shall intimate the names of persons who are working in the division in any capacity or who are subsequently employed. He shall also furnish a list of Non-Gazetted Public Works Department Employees related to him. Failure to furnish such information shall render him liable from the list of registered contractors and his contract is liable for cancellation.

**List of Near relatives:**

1. Sons Stepsons, Daughters & Step daughters
2. Son-in-law and Daughter-in-law
3. Brother-in-law and sister-in-law
4. Brothers and Sisters
5. Father and Mother
6. Wife and Husband
7. Father-in-law and Mother-in-law
8. Nephew, Nieces, Uncles and Aunts
9. Cousins.
10. Person residing with the contractor

14.4 If The tenders received are found to have abnormally high percentage or within the permissible ceiling limits prescribed but under collusion due to unethical practices adopted at the time of tendering process shall be summarily rejected.

**15.0 RIGHT TO OMIT ONE OR MORE ITEMS**

The Department shall have the right to omit one or more items put in the tender either before or after an agreement for the work is entered into.

**16.0 CONTRACTOR RATES INCLUSIVE OF ROYALTIES**

It shall be understood and agreed that contractors offer is to include royalties and costs arising from patent trade marks and copy rights in any way involved in the work whenever the contractor requires to use any design device, materials or process covered by letter of patent or copy of right, tenderer shall indemnify and save the University from any all claims for the infringement by reason of the use of such patented design divide material or process to be performed under the contract and indemnify the University for any costs, expenses and damage which the department may be obliged to pay by reason of any such infringement at any time during the prosecution or after the completion of the work.

**17.0 PERSONNEL OF CONTRACTOR**

17.1 The successful tenderer shall have to employ the following technical staff on full time basis to be available at site

From Rs. 50,000/- to Rs. 1 ,00,000/-	One I. T .I. candidate
Between Rs. 1.00 Lakh and Rs. 5.00 Lakhs	One Diploma holder
Between Rs. 5.00 Lakhs and Rs. 15.00 Lakhs	One Graduate Engineer or Diploma Holders.
Above Rs. 15.0 Lakhs	One Graduate Engineer and one Diploma holder

- 17.2 Mechanical Engineer (Graduates, Diploma holders and I. T .1. candidates as the case may be) may be employed to supervise works as per the scale prescribed where Civil Engineering personnel are not available.
- 17.3 Employment of technical personnel shall be with reference to the estimate cost of work put to tender.
- 17.4 In case the contractor himself is a Diploma holder / Graduate Engineer, no agent need to be appointed to supervise works costing upto Rs. 5.00 Lakhs/above Rs. 5.00 Lakhs respectively. Even if the contractor is himself a technically qualified person he shall employ technical staff on the scale prescribed for supervising works when more than one work is undertaken, and if they are beyond a radius of 5 Kms. one or more work within a radius of say 5km. shall be treated as a single work for the purpose of employment of technical staff.
- 17.5 The appointment of technical staff shall be on full time basis and they shall be available at work site whenever required by the Engineer-in-charge of the work to take instruction. In case of failure of the contractor to employ the technical staff as above, recovery shall be made from his bills at the following rates for such periods as the staff is not actually present as assessed by the Executive Engineers.

<b>Cost of Work</b>	<b>Rate of Work</b>
Between Rs. 50000/- to Rs. 1,00,000/-	Rs. 200/- per month
Between Rs. 1.00 Lakh and Rs. 5.00 Lakhs month	Rs. 400/- per month
Between Rs. 5.00 Lakhs and Rs. 15.00 Lakhs month	Rs. 600/- per month
Above Rs. 15.0 Lakhs	Rs. 1000/- per month

- 17.6 The **Executive Engineer (Dr.YSRHU)** is the sole judge (a) to decide whether qualified technical staff is actually supervising the work and (b) to decide the actual period of absence of such staff which requires the above recovery to be enforced and his decision is final and binding on the contractor.

### **18.0 TIME FOR COMPLETION:-**

The period for completion of work is **One month**.

- 18.1 The attention of the tenderer is directed to the contract requirements as to the time beginning the work, the rate of progress and dates for the completion of the whole work and its several parts. Time is essence of contract.

18.2 The following rate progress will be required to be maintained by the contractor as a minimum. The date of commencement of this work be the date of signing the agreement but not the date of handing over the site. Contractor may give a separate time schedule for the completion of the whole work and then consideration will be given for accelerated programme. It is imperative that the work progress well ahead of the rate of progress given below.

Percentage of work to be completed based on the contract lump sum amount within a period of **One Month** is as follows.

10 days	<b><u>40 % of the contract value</u></b>
10 days	<b><u>30% of the contract value</u></b>
10 days	<b><u>30% of the contract value</u></b>

If the contractor fails to adhere to the above progress penalty will be imposed as per Clause of A.P.S.S. or as decided by the Estate Officer.

18.3 Detailed programme in terms of collection of necessary materials & labour and in terms of finished items of work, to confirmation of the above rate of progress shall be prepared and got approved by the Executive Engineer concerned in which shall be strictly adhered to.

### **19.0 Commercial Tax**

19.1 Commercial tax during the currency of the contract, the deduction towards Andhra Pradesh

Commercial Tax which tax @ 5% will be added & deducted at the source

### **20.0 Income tax:**

20.1 The Income tax of 2.00 % for firms and 1% for individual Contractor will be deducted at source.

20.2 During the course of the contract periods deduction of income tax at 2.00% shall be made from the gross payment of each bill of the contract, the contract value of which is in Excess of Rs. 10,000/-. For deduction of tax at rates lower than 2.00% procedure stipulated under India Union Section 194-C (4) of Indian Income tax, 1961 or prevailing at the time of payment shall be followed.

### **21.0 Discount tenders**

For the tenders quoted less than 25% of the estimated value a Crossed Demand Draft for the difference between the tendered amount and 75% of the estimate contract value should be submitted at the time of agreement.

### **22.0 Measurement and check Measurement**

Payment for the work done by the contractor will be made for the finished work based on the measurement recorded in measurement books by any officer of the dept. not lower than a Assistant Engineer and check-measured by any officer not lower than a Dy. Exe. Engineer. The measurement shall be recorded at various stages of the work while in progress for the proper assessment of the quantities of work done and also after work is completed



or when the contract is terminated. The contractor shall be present at the time of recording of each set of measurement and check-measurement and accept them, then and there so as to avoid disputes at a later stage. If the contractor is not available at the work spot at the time of recording measurements or check-measurements the particulars of the measurements shall be signed by the authorised agent of contractor based on which the contractor shall accept the set of measurements without any further dispute.

If for any reason the Contractors authorised agent is also not available at site and the work spot to be suspended by the Department representative to avoid recording of measurements during the absence of the contractor or his authorized representative the department shall not entertain any claim from the contractor for any loss incurred by him on this account. The contractor shall however note that the department can't indefinitely wait for recording the measurements due to the absence of the contractor and his authorised agent and check-measure them even in the absence of the contractor after giving in writing a notice of 3 days. Measurements will be recorded for finished work for which all tests are conducted and the work is done in accordance with A.P .S.S./Most specification. The actual volume of stone and aggregate shall be completed after the deducting the following percentages from the volume computed by stack measurements.

Standard size of aggregate and stone	Percentage reduction in volume computed by stack measurements to arrive at the volume to be paid for
Stone	40
40 mm and 25 mm	10
20mm, 12 mm, 10 mm and 6 mm	05
Fine aggregate	NIL
Gravel	20

Unless otherwise directed, measurements shall not be taken until sufficient quantity of metal for use on the work have been collected and stacked. Immediately after measurement the stack shall be marked by whitewash or other means as directed by the Engineer-in charge.

## **22.0 Conditions on Roof Slabs and Stripping time**

22.1 The R.C.C. slab laid should be leak proof. After observing for two rainy seasons if the roof or floor is found to be perfectly leak proof and no moisture or dampness is seen underneath at ceiling of the slab, the contractor can ask for refund of E.M.D. or F.S.D. from the department. If there are any defects noticed after laying of roof they must be attended to by the contractor at his own cost. Further the contractor must arrange to

get the structure treated as per clause 21 of ISI code no. 456/1964, at his own cost, on the instructions of the department.

When R.C.C. slab is laid the following tests may be carried out by the contractor at his own cost to prove that the slab is impervious.

After the centering is removed and curing period is over the slab shall be put to test by pouring water 15 cms. Depth and watched carefully for period not less than a week see also condition (f) below.

If leakage is observed immediate action should be taken to rectify it by the contractor at his own cost and again tested to see that there are no leakages.

The officer observing the leakage test shall issue a certificate to this effect before final bills is made.

The variation thickness of R.C.C. roof slab due to varying spans or special covering materials should not affect the general roof bed which should be uniform unless otherwise shown in drawings or instructed.

For roof slab to be laid MS hooks to be provided as directed by the department for fixing fans and lighting G.I. pipes of 12 mm or 20 mm has to be provided in the masonry walls of a concrete at the specified places as directed by the department for making electrical wiring. No payment will be made to the contractor for these sundry items of work.

For Roof slab water has to be stagnated for 15 Cms depth for one week to test the leakages if any. If there are any leakages, the contractor has to rectify the same as directed by the department at the cost of the contractor. No payment will be made to the contractor on this account either for rectifications thus stagnated.

### **23 Striping time**

Forms shall not be struck until the concrete has reached a strength at least twice the stress to which the concrete may be subjected at the time of removal of formwork. The strength referred to shall be that of concrete using the same cement and aggregates, with the same proportions and cured under conditions of temperature and moisture similar to these existing on the work. Where possible, the formwork shall be left longer as it would assist the curing.

**Note 1:** In normal circumstances and where ordinary Portland cement is used formwork may generally be removed after the expiry of the following periods.

- |                                      |                                  |
|--------------------------------------|----------------------------------|
| a) Walls, Columns and Vertical faces | 24 to 48 hours as may be decided |
| of all structural members            |                                  |
| by the Engineer in charge            |                                  |
| b) Slabs (props left under)          | 3 days                           |
| c) Beam soffits (props left under)   | 7 days                           |
| d) Removal of props under Slabs      |                                  |

i) Spanning upto 4.5 Mts.	7 days
ii) Spanning over 4.5 Mts.	14 days
e) Removal of Props under Beams and Arches	
i) Spanning upto 6 Mts.	14 days
ii) Spanning over 6 Mts.	21 days

For other cements the stripping time recommended for ordinary Portland cement may be suitably modified.

**Note 2:** The number of props left under their sizes and description shall be such as to be able to safely carry the full dead load of the slab, beam or arch as the case may be together with any live load likely to occur during curing or further construction. All cement concrete shall be machine mixed and machine vibrated.

23.2 The proportions of cement concrete specified in the above schedule are nominal and are indication of approximate proportion of cement, fine aggregate and coarse aggregate, which may have to be altered suitably at site to obtain desired strength and workability. However, the quantity of cement shall not be less than specified below.

Nominal Mix. Cement in bags of 50 Kgs per one Cubic meter (net) of cement concrete

a. 1 :1.5:3	8.84 bags of 50 Kgs.
b. 1 :2:4	6.62 bags of 50 Kgs.
c. 1 :2.5:5	5.30 bags of 50 Kgs
d. 1 :3:6	4.42 bags of 50 Kgs.
e. 1 :4:8	3.31 bags of 50 Kgs.
f. 1:5:10	2.65 bags of 50 Kgs.
g. 1 :6:12	2.21 bags of 50 Kgs.
h. 1:8:16	1.66 bags of 50 Kgs.

### 23.3 Theoretical requirement of cement of

a.	C.R.S. Masonry in C.M. (1 :6)	1.54 bags per Cum
b.	C.R.S. Masonry in C.M. (1 :8)	1.15 bags per Cum
c.	Brick Masonry in C.M. (1 :4)	2.02 bags per bag
d.	Brick Masonry in C.M (1:6)	1.34 bags per Cum
e.	Brick Masonry in C.M. (1 :8)	1.01 bags per Cum
f.	12 mm plastering in C.M. (1:5) & C.M. (1:3)	1.02 bags per 10 Sqm.
g.	12 mm plastering in C.M. (1:6) & C.M. (1:4)	0.82 bags per 10 Sqm.
h.	20 mm plastering in C.M. (1:6) & C.M. (1:4)	1.15 bags per 10 Sqm.
i.	12 mm plastering in C.M. (1 :4)	1.08 bags per 10 Sqm.
j.	12 mm plastering in C.M. (1 :6)	0.72 bags per 10 Sqm.

### 24.0 Construction Materials

24.1 The contractor has to make his own arrangement for procurement, supply and use of all construction materials including cement, steel and blasting materials. etc., and compliance of following should be ensured.

a) All materials so procured should confirm to the relevant specifications indicated in the tender documents or to alternative standards or specifications which are equal or higher in quality than those specified subject to Executive Engineer's prior review and written approval. Difference between the standards specified and the proposed alternatives must be fully described by the contractor and submitted to the Executive Engineer's at least 30 days prior to the date when the contractor desires Executive Engineer's approval. In the event Executive Engineer determines that the alternative do not ensure equal or higher quality the same will be rejected and the contractor shall comply with the standards set forth within the documents.

### 24.2 Materials, workmanship, period and certificate of maintenance and defect liability quality.

All materials and workmanship shall be of the respective kinds described in the contract and in accordance with Executive Engineer's instructions and shall be subjected from time to time to such tests as the Executive Engineer may direct at the place of manufacture or fabrication or on the site or at such other place or places as may be specified in the contract, or at all or any of such places. The contractors shall provide such assistance, Instruments, Machines, labour and materials as are normally required for examining measuring and testing the work and the quality weight or quantity of any materials used and shall supply samples of materials before incorporation in the works for testing as may be selected and required by the Executive Engineer.

### **24.3 Tests, inspection of defective materials**

The contractor shall without extra cost provide samples and cooperate in the testing of materials. The Executive Engineer shall have access at all times to the places of storage and where materials are being manufactured and proceeded for use in the works under contract to determine whether their manufacture and process are proceeding in Accordance with the drawings and specifications. The Executive Engineer shall during the progress of the works have power to order in writing from time to time in respect of the following.

- a) The removal from the site, within such time or times as may be specified in the order, of any materials which in opinion of the Executive Engineer, are not in accordance with contract.
- b) The substitution of proper and suitable materials and
- c) The removal and proper re-execution, not with standing of any work which in respect of materials or workmanship is not, in the opinion of the Executive Engineer, in accordance with contract.

The contractor shall carry out such order at no extra cost to the Executive Engineer. In case of default on the part of the contractor in carrying out such order, the Executive Engineer shall be entitled to employ and pay other persons to carry out the same and all expenses consequent thereon or incidental thereto shall be recoverable from the contractor by Executive Engineer or may be deducted by the Executive Engineer from any monies due to or which may become due to the contractor.

In lieu of removing the work or materials no in accordance with the contract the Executive Engineer may order such work or materials to remain and in that case such may be paid at the reduced rates as may be decided by Executive Engineer. However any action by the Executive Engineer under this Para shall not any way absolve the contractor from his responsibility and liabilities as per condition of contract.

### **24.4 CEMENT**

24.4.1 The contractor has to make his own arrangements for the cement required for the works subject to the following:

24.4.2 The contractor shall procure 43 grade ordinary Portland cement conforming to IS 8112-1989 or 53 grade OPC as per I.S. 122689-1990 in standard packing of 50 kg/bag as fresh as possible from the authorized manufacturers / dealers. Cement procured from non B.I.S. license firms will not be allowed. The contractor shall make necessary arrangements at his own cost to the satisfaction of the Executive Engineer for actual weightment of random samples from the available stock. Cement shall be got tested as directed by the Executive Engineer at least 15 days in advance before the actual use on work.

Cement required for the testing shall be conducted in accordance with I.S. 4031-1968 and I.S. 3535-1986.

The contractor has to purchase the cement on the name of work and on the name of contractor. The cement without mentioning the above two names will not be accepted. Vendors test certificate and weighment bills are to be furnished to the Executive Engineer. Any quantity purchased without test certificates will not be accepted for use on the work.

**24.4.3** a) The contractor should procure the cement required during the next 30 days, atleast a fortnight in advance to facilitate conducting test on the quality of cement, so brought to site and shall be stored in accordance with clause No.112 of APSS. The contractor shall forth with remove from the work site any cement that the Engineer-in-charge may disallow for use on account of its failure to meet with the required standards.

b) No cement procured by the contractor shall be used in any work until notice has been given by the Executive Engineer, that test results are satisfactory. Physical and chemical requirement shall conform to IS:269-1989.

c) The contractor has to furnish the test certificates and samples for testing of each batch and each consignment to the Executive Engineer immediately after receipt of cement into the godown for verification an testing.

24.4.4 The estimate contract value includes the provision for construction of store shed. The contractor will have to construct sheds at approved locations having a capacity for storing cement required for not less than 30 days use. The Executive Engineer or his representative shall have free access to such stores at all times for verification of the stocks received, used on works and balance. A stock register should be kept in the store shed to facilitate such verification. If any difference is observed based on the carriage inwards, carriage outwards, theoretical requirement of cement for finished work, the contract will be cancelled and the contractor will be black listed.

24.4.5 The contractor shall further, at all times, satisfy the Executive Engineer on demand by production of records and books or by submission of returns and other proofs as directed that only the cement tested and approved by the Executive Engineer is being used. The contractor shall at all times keep his records upto date to enable the Executive Engineer to apply such checks as he may desire.

24.4.6 Cement more than 3 months shall invariably be tested to ascertain that it satisfies the acceptability requirements. If any reduction in strength of cement is observed in the tests the contractor shall forth with remove the respective consignment from the stores. For such rejection/removal no claim will be entertained.

24.4.7 Usage of cement on works, be it for concrete or for mortar or otherwise, should be done only by weight and not by volume.

**24.4.7.1 CEMENT STORAGE** : Recommendations of stacking and storage of cement at site shall be as per IS:4082-1977.

Cement bags shall be stored in dry, weather proof godowns, adequate precautions shall be taken to ensure stacking of cement bags in such as to keep them about 150mm 200mm clear above floor and 250mm to 300mm clear of walls.

The height to stack shall not ordinarily be more than 10 bags and in no case more than 15 bags (except for very short periods) to prevent possibility of lumping up under pressure. Cement bag shall be stacked in a manner to facilitate their removal and use in the order in which they are received. Cement shall be stored at the work site in such a manner as to prevent deterioration to moisture. Cement which has become caked or other wise damaged by getting wet or for any other reason shall on no account be used on the work.If cement is not properly stored as specified above, the contractor will not be allowed to use the cement for the work.

## **24.5 STEEL :**

The Contractor shall procure (MS) mild steel reinforcement bars, high yield strength deformed (HYSD) bars, rods and structural steel, etc., required for the works, only from the main or secondary producers manufactured steel to the prescribed specifications of Bureau of Indian Standards of equivalent and licensed to affix ISI of other standards of equivalent certificates marks and acceptable to the Executive Engineer. Necessary ISI test certificates are to be produced to Executive Engineer before use on works. The original bills of procurement should be submitted to the Executive Engineer for making payment of the item.

24.5.1 The various types for steel conform to relevant I.S. specifications as provided in A.P.S.S.No.126.

24.5.2 The contractor has to make his own arrangements for procurement of tested steel required for the work. Steel for use in head works, major bridges/buildings, water supply schemes and major structures on main canals, branch canals, etc., shall invariably be procured from main manufacturers. Test certificates conforming to I.S.No.1788-1985 are to be furnished to the Executive Engineer before using the steel on works. The HYSD steel (IS:786-1985) bars should have TOR mark.

24.5.3 The contractor has to purchase the steel on the name of work and no the name of contractor and furnish the same to Executive Engineer. The steel with out mentioning the above two names will not be accepted. Vendors test certificate and weighment bills are to be furnished to the Executive Engineer any quantity purchased without test certificates will not be accepted for use on the works.

24.5.4 If any difference is observed based on carriage inwards, carriage outwards theretical requirement of steel for finished work, the contract will be cancelled and the contractor will be black listed.

24.5.5 The diameter and weight of steel should be as per I.S.1786-1985 or relevant I.S. specification with subsequent revisions from time to time.

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S.No.	Diameter of rod of rod	Sectional weight in Kilogram per Running meter both for MS AND TMT steel
1.	6 Millimeters	0.22
2.	8 Millimeters	0.39
3.	10 Millimeters	0.62
4.	12 Millimeters	0.89
5.	14 Millimeters	1.21
6.	16 Millimeters	1.58
7.	18 Millimeters	2.00
8.	20 Millimeters	2.47
9.	22 Millimeters	2.98
10.	25 Millimeters	3.85
11.	28 Millimeters	4.83
12.	32 Millimeters	6.31
13.	33 Millimeters	6.71
14.	36 Millimeters	7.99
15.	40 Millimeters	9.86
16.	42 Millimeters	10.88

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**Note:** If any rods other than those specified above are used, the weights shall be as per standard steel tables.

#### **24.5.6 PROCUREMENT**

a) The contractor has to furnish the test certificates issued by the vendors and samples for testing for each batch and each consignment to the Executive Engineer immediately after receipt of steel in the stockyard at site of work for verification and for testing.

b) No steel procured by the contractor shall be used in any work until notice has been given by the Executive Engineer, that the test results are satisfactory.



#### **24.5.7 STEEL STORAGE :**

Reinforcement steel and binding wire shall be stored above ground surface upon platform, skids or other supports protected as far as practicable from surface deterioration by direct contact with undesirable elements or by exposure to conditions producing rust and corrosion. Bars shall be so supported as to avoid distortion and sagging of long lengths. All the reinforcement of same designation shall be stacked separately and distinctly marked.

Recommendation of stacking and storage of steel at site shall be in accordance with IS:4082 – 1977.

Overlaps: The contractors may note that the estimate contract value provides for all overlaps, spacers, metal chairs, blocks, stay wire, supporting wire etc. and no extra payment will be made for such subsidiary reinforcement.

#### **25.0 Recovery towards National academy of Construction, Hyderabad.**

During the course of contract period, Addition and deduction from the contractor work bills for paid for establishment of Institute of Construction Technology of India at Hyderabad will be effected at 0.25% of the gross amount of the bill, as per G.O.Ms. No. 92 T R&B (B.1) Department Dt., 19.5.98. The crossed cheque will be sent in favour of the "The Director General, National Academy of Construction, Hyderabad, D.No. 2-1-408/2/1, Nallakunta, Hyderabad500044,A.P.,India.

## **SPECIAL CONDITIONS**

### **1.0 Inspection of site and alignment by Tenderer**

Tenderers when submitting the tender should certify in the tender that they have actual inspected the site and alignment of work and have examined before the nature and extent to various kinds of soils at various depths and have based their tenders on such examination by them.

The contractors shall make their own arrangements for all the tools and plant. A statement giving brief particulars of equipment and resources that will be at their disposal for the execution of this work, shall accompany the tender (Annexure IV).

### **2.0 Settlement of claims**

Except as otherwise providing in the contract, any disputes and differences arising out of or relating to the contract shall be referred to adjudication as follows.

#### **2.1 Settlement of all Claims above Rs. 50,000/- in value and below** by way of arbitration to be referred as follows:

Claims upto Rs. 10,000/-  
in Value .

Estate Officer  
Dr.YSRHU, V.R.Gudem

Claims above Rs. 10,000/-  
V.R.Gudem  
and upto 50,000/- in value

Estate Officer, Dr.YSRHU,

The arbitration proceedings will be conducted in accordance with the provisions of the Arbitration" Act, 1940 and as amended from time to time. The arbitrator shall invariably give reasons in the award.

#### **2.2 Settlement of all Claims above Rs. 50,000/- in value**

All claims above Rs. 50,000/- in value shall be decided by the Civil Court of competent jurisdiction by way of regular civil suit and not by arbitration.

#### **2.3** A reference for adjudication under this clauses shall be made by either party to the contract within six months from the date of intimating the contractor of the preparation of final bill or his having accepted payment which ever is earlier.

The relevant clauses of A.P. Standard Specification stands modified to the extent provided in this clause.

**Note:** Claims means all claims in that contract.

### **3.0 Taxes:**

All taxes such as Sales tax, Seigniorage, Royalties etc., in respect of materials to be consumed on the work and also in the finished item of work etc., must be born by the contractors themselves.

#### **4.0 Execution of work as per Specification & Codes**

4.1 The work should be carried out as per the relevant clauses of A.P.S.S. ISI code and as per specification in tender documents to the satisfaction of the department.

#### **5.0 Supplemental Items**

5.1 The contractor is bound to execute all supplemental items that are found essential, incidental, contingent and inevitable during the execution of work, at the rates to be worked out as detailed below.

5.2 For all items of work in excess of the quantities shown in schedule "A" of the tender the rate payable for such items shall be Sanctioned estimate rate Plus or minus the over all tender percentage accepted by the competent authority.

5.3 The rates shall be derived by adding to or subtracting from the agreement rate of such similar item the cost of the difference in the quantity of materials lab our between the new items and similar items in the agreement worked out with reference to the Standard Schedule of Rates adopted in the sanctioned estimate with which the tenders are accepted plus or minus over all tender percentage.

5. 3.1. a. Similar items but the rates of which cannot be directly reduced from the original agreement,  
b. Purely new items which do not correspond to any item in the agreement.

5. 3. 2. The rates of all such items shall be estimated rates plus or minus Overall tender premium. For new items which do not correspond to any in the agreement, the rate shall be Standard schedule of rate of the year based on which the sanctioned estimate was approved plus or minus the overall tender percentage.

#### **6.0 Rehandling of excavated soils**

No charges towards rehandling of excavated soils or materials will be paid for if deposited at the place other than those earmarked by the Executive Engineer, APHU.

#### **7.0 Equal Remuneration Act 1976**

CI. (1) Equal remuneration will be paid to both male and female employees and workers engaged for the same work or work of similar nature.

CI. (2) Employer / Contractor shall not show any discrimination while recruiting men and women workers in his establishment project / work.

Failure to act in effective implementation of the law will be viewed seriously and cases will be initiated against the employers violating the law.

## **8.0 Clearing of Site & Taking of Markout**

Cleaning the site, taking mark out, making center line, construction of necessary pillars for bench mark and mark out etc. shall be done at the cost of the contractor, For Final clearance of the site shall be done by the contractor at his own cost.

## **9.0 Over payment or wrong payment**

In case of over payment or wrong payment made, if any to the contractor due to wrong interpretation of the provisions of the contract the Andhra Pradesh Standard Specifications or other wise, and due to over sight or calculation error etc. such unauthorised payment will be deducted in the subsequent bills or final bill of the work or failing that, from the bills under any other contract with the Government / University from the contractor or at any time thereafter, from his security deposits available with the department. If there is no payment due to the contractor in any Government Department / University the amount will be collected from his assets as Government dues by the Revenue authorities.

It shall be accepted as a condition of the contract that a payment of the final bill to the contractor less the withheld amount and his acceptance thereof shall constitute a full and absolute release of government / University for all the claims by the contractor under the contract.

**10.0 Price adjustment clause is applicable as per G.O. Ms no. 35, TR & B (R.I) Department, dated 30.01.2009 and the tenderer has to quote his offer taking into account the period involved for the completion of work.**

## **11.0 Accident Relief and Workmen Compensation**

11.1 The contractor shall at all times indemnify the Govt. of Andhra Pradesh / University against all claims which may be made under the workmen's compensation act or any statutory modification thereafter or rules thereunder or otherwise consequent of any damage of compensation payable in consequent of any accident or any injuries sustained or death of any workmen engaged in the performance of the work relating to the contractor.

11.2 In all case of personal injury to the workman employed by a contractor for this work for which contractor is liable to pay compensation under Workmen's compensation Act, he shall pay the prescribed medical aid and the fee to the medical officer for issue of C & D forms as prescribed failing which the said fee will be paid to the Medical officer by the University / Department and recovery effected from the contractor's bill.

11.3 No claim shall be entertained if the same is not represented in writing to the Executive Engineer, Dr.YSRHU, V.R.Gudem within 15 days of its occurrence.

## **12.0 Equipment and Machinery**

- 12.1 All equipment and machinery like CC mixtures, Vibrators etc., required for the work has to be arranged by the contractor only.

## **13.0 Apprentices Act**

The contractor shall during the currency of the contract as called upon by the Executive Engineer engage and also ensure engagement by his agents and other employed by the contractor in connection with the work, such number of apprentices in the categories as required by the Executive Engineer and for such periods as may be required by the Executive Engineer in charge. The contractor shall train them as required under the Apprentices Act, 1961 and the rules made there under and shall be responsible for all obligations of the employees under the said act including the liability to make payment 4(a) to apprentices as required under the said act.

## **14.0 Quality Control**

In addition to the normal inspection by the regular incharge of the construction of the work will also be inspected by the Executive Engineer / Adviser to the H'ble Chief Minister of A.P. or by the State or District level Vigilance Cell Unit and if any sub standard work or excess payment are noticed with reference to measurement book etc., during inspection, recovery will be ordered based on their observations and these will be effected by the Executive Engineer of the execution of the work.

The final bill will be released after a certificate furnished by the Executive Engineer, Dr.YSRHU that the work had been executed as per the standard specifications and then only the final bill can be released.

- 14.1 The Contractor and the Engineers in charge of Construction / maintenance are responsible for the quality of construction / maintenance. The University Departmental Executive Engineers will act as quality assurance Engineers.

## **15.0 Drawing to be kept at site**

- 15.1 One copy of the drawings furnished to the contractor shall be kept by the contractor on the site and same shall at all reasonable be available for inspection and use by the Departmental officers / University.
- 15.2 **Order Book:** An order book shall be kept at the Department office on the site of the work. As far as possible all orders regarding the work are to be entered in this book. All entries shall be signed and dated by the Departmental officer who issues such orders and by the contractor or by his representative. The order book shall not be removed from the work spot except with the written permission of the Executive Engineer.

## **16.0 Variations by way of modification, omissions or additions**

- 16.1 For all modifications omissions from or additions to the drawings and specifications, the Executive Engineer will issue revised plans, or written instructions, or both and no

modification, omission or additions shall be made unless so authorised and directed by the Executive Engineer in writing.

- 16.2 Executive Engineer shall have the privilege of order in modifications, omission or additions at any time before the completion of the work and such orders shall not operate to annul those portions of the specifications with which said changes do not conflict.

### **17.0 Security Measures**

- 17.1 The contractor shall be responsible for the security of works for the duration of the contract and shall provide and maintain continuously adequate security personnel to fulfill these obligations. The requirements of security measures shall include but not limited to maintenance of order on the site, provision of all lighting, fencing, guard, flagmen, and all other measures necessary for the protection of the works within the colonies, campus and elsewhere on the site, all materials delivered to the site, all persons employed in connection with the works continuously throughout working and non-working period including nights, Sundays and holidays for duration of the contract.
- 17.2 Other Contractors working on the site concurrently with the contractor will provide security for their own plant and materials. However, their security provisions shall in no way relieve the contractor of his responsibilities in this respect.
- 17.3 Separate payment for provision of security services will not be made and its cost shall be deemed to have been included in the offer of the tenderer.

### **18.0 Insurance**

- 18.1 The contractor shall provide in the joint names of the Executive Engineer and the Contractor insurance cover.
- 18.2 The contractor shall provide in the names of the Executive Engineer an insurance cover from the start date and upto the end of the defects liability period i.e. 24 months for original works and 12 months for maintenance works in the amounts and deductions stated in the contract data for the following events which are due to the contractor's risks.
- a) loss or damage to the works, plant and materials
  - b) loss or damage to the Equipment
  - c) loss or damage of property (except the works, plant, materials and equipment) in connection with the contract and
  - d) Personal injury or death.
- 18.2 Policies and certificates for insurance shall be delivered by the contractor to the Executive Engineer for the Executive Engineer's approval before the start date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify, the loss or damage incurred.
- 18.3 If the contractor does not provide any of the policies and certificates required, the Executive Engineer may effect the insurance which the contractor should have provided and recover the premiums the Executive

Engineer had paid from payment otherwise due to the contractor or, if no payment of the premiums shall be a debt due.

- 18.4 Alterations to the terms of an insurance policy shall not made without the approval of the Executive Engineer.

Both parties shall comply with all conditions of the insurance policies.

The contractor has to take Insurance Policy in favour of the Department / University. For which suitable reimbursement will be made on production of the Insurance policies along with paid vouchers in original. The payment should not exceed the amount indicated in Part-II of the Schedule 'A', towards insurance.

### **19.0 Power Supply**

- 19.1 The contractor shall make his own arrangements for installations of power from the Electricity Board at his own cost. The contractor will pay the bills of the Electricity Board for the cost of power consumed by him.

- 19.2 The contractor shall satisfy all the conditions of rules required as per Indian Electricity Act 1910 and under Rule-45(i) of the Indian Electricity Rules, 1956 as amended from time to time and other pertinent rules.

- 19.3 The power shall be used for bonafied Departmental works only.

- 19.4 The contractor shall at all times during the currency of the contract, comply fully with all existing Acts, regulations and bylaws including all statutory amendments and re-enactment's of state or central govt., and other local authorities and any other enactment's, notification and acts that may be passed in future either by the state or the central government or local authority including Indian Workmen's Compensation Act, 1923. Contract labour (Regulation and Abolition ) Act 1970. The child labour prohibition and regulation Act 1986 and Equal remuneration Act. 1976. Factories Act, minimum wages Act, 1948, provident fund regulations. Employees provident fund Act, 1952, schemes made under the same Act. The buildings and other construction workers (Regulation of employment and condition of service) Act, 1996. The Cess Act, 1996 and also applicable labour regulations, health and sanitary arrangement for workmen, insurance and other benefit and shall keep department indemnified in case any action is commenced by competent authorities for contravention by the contractor.

- 19.5 The buildings and other construction workers (Regulation of employment and condition of service) Act, 1996. The Cess Act, 1996 at **1No table of figures entries found.**% on Labour or as modified by the Government from time to time and also applicable labour regulations, health and sanitary arrangement for workmen, insurance and other benefit and shall keep department indemnified in case any action is commenced by competent authorities for contravention by the contractor.

## **20.0 FAIR WAGES CLAUSE**

20.1 The contractor shall pay not less than fair wages to labourers engaged by him on the work.

20.2 Fair wages means wages whether for time or place of work notified by the Government from time to time in area in which the work is situated.

The contractor shall not with-standing the revisions of any contract to the contrary cause to be paid to the labour, in directly employed on the work including any labour engaged by the sub-contractor in connection with the said work, as if the labourers had been directly employed in the works for the purpose of the contractors part of the agreement the contractor shall comply with the rules and regulations on the maintenance of suitable records prescribed for this purpose from time to time by the Government / University. He shall maintain his accounts and vouchers on the payment towards wages to the labourers to the satisfaction of the Executive Engineer Incharge.

20.4 The Executive Engineer shall have the right to call for such records as required to satisfy himself of the payment of fair wages to the labourers and shall have the right to deduct from the contract amount a suitable amount for making good the loss incurred, by the worker or workers by reason of the "Fair Wages" clause to the workers.

20.5 The contractor shall be primarily liable for all payments to be made and for the observance of the regulations framed by the Government / University from time to time without prejudice to his right to claim indemnity from his Sub-contractors. As per contract labour ( Regulation and abolition )Act 1970 the contractor has to produce the license obtained from the licensing of the labour department along with the tender and at the time of Agreement. Any violation of the conditions above shall be deemed to be breach of his contract. Equal wages are to be paid for both men and women if the nature of the work is same and similar. The contractor shall arrange for the recruitment of skilled and unskilled labour local and imported to the extent necessary to compete the work within agreed period as directed by the Executive Engineer in writing.

### **RULES FOR THE PROVISIONS OF HEALTH AND SANITARY ARRANGEMENT FOR WORKERS**

Medical rules for the provision of health and sanitary arrangement for workers employed by the department and contractor.

The camp and hutting accommidation, water supply and sanitary arrangements for the workers and labour employed and the works shall be made by the contractor at his own cost and shall strictly conform to the requirements and to the satisfaction of the Medical and sanitary authorities of projects and in accordance with the Medical Rules listed below.

**21.1** The Contractors special attention is invited to clause 37, 38, 39 and 51 of the preliminary specification to the Andhra Pradesh Standard



Specifications and he is requested to provide at his own expenses the following amenities to the satisfaction of Executive Engineer concerned.

**21.1 First Aid:**

At the work site there shall be maintained in a readily accessible place, first aid appliances and medicine including adequate supply of sterilized dressing and storised cotton wool. The appliance shall be kept in good order. They shall be placed under the charge of a responsible person, who shall be readily available during working hours.

**21.2 DRINKING WATER:**

Water of good quality fit for drinking purpose shall be provided for the worker on a scale of not less than 3Gallons per head per day.

- a) Where drinking water is obtained form an intermittent public water supply each work site shall be provided with a storage tank, where such drinking water shall be stored.
- b) Every water supply storage shall be at a distance of not less than 15M from any latrine drain or other source of pollution where water has to be drawn from an existing well, which is within such proximity of any latrine, drain or other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and provided with a tap door which shall be dust and water proof.
- c) A reliable pump shall be fitted to each covered well and the tap door shall be kept locked and and opened only for inspection or cleaning which shall be done atleast once a month.

**21.3 Washing and Bathing Place:**

Adequate washing and bathing places shall be provided separately for men and women. Such place shall he kept clean and well drained conditions. Bathing or washing should not be allowed in or near any drinking water well.

**21.4 Latrine and Urinals:**

These shall be provided within the premises of every work site, latrines and urinals in an accessible place of men and women separately. For each of them shall be on the following scales or the scale as directed by Executive Engineer in any particular case.

seats

- 1. Where the number of persons employed does not exceed 50 2
- 2. Where the number of persons employed exceeds 50 3  
but does not exceed 100
- 3. For every additional 100 3

If women are employed separate latrines and urinals, separated from those for men shall be provided on the same scale.

Except in work site provided with water flushed latrines connected with a water borne sewage systems,all latrine shall be cleaned atleast four times daily. The excreta from letrines shall be desposed off at the contractor's

expenditure in out of way pits approved by the local public health authority and at least twice during working hours and kept in a strict sanitary condition.

The contractor shall also employ adequate number of scavengers and conservancy shall to keep the latrines and urinals in a clean condition.

#### **21.5 Shelters During Rest:**

At the work site these shall be provided free of cost. Two suitable sheds, one for meals and other for rest of the of workers.

#### **21.6 Creches:**

At every work site at which 50 or more women workers are ordinarily employed there shall be provided two huts of suitable size for the use of children under the age of 6 years belonging to such women one hut shall be used for infants games and other as a bed room. The hut shall not be constructed on a standard not lower than the following.

1. Thatched roofs
2. Mud floors and walls
3. Planks spread over the mud floor and covered with matting. The use of the huts shall be restricted to children and their attendants and mothers of the children.

#### **21.7 Canteens:**

A cook for canteen on a moderate scale shall be provided for the benefit of workers if it is considered essential.

#### **21.8 Sheds for the Workers:**

The Contractor shall provide at his own expense sheds for housing the workers. The sheds shall be on a standard not less than the cheap shelter type to live in which the workers in the locality are accustomed to a floor area of about 2m or 1.5m per two persons shall be provided. The sheds are to be in rows with 12.5 Mts, clear space between sheds and 19.0 Mts clear space between rows if conditions permit. The workers camp shall be laid out in units of 400 persons each unit to have a clear space of 12 m allround.

21.9 Land should be acquired temporarily for Storing Contractor's Materials or for his staff.

The Contractor should make his own arrangements for temporarily acquisition of land required for storing his materials and for the housing of his staff at his own expenses.

Name of contract	Class of bill	Amount of payment	Nature of deduction	Refund or deduction
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## 22.0 PAYMENTS AND CERTIFICATES

Payment will be made to the contractor under the certificates which will be issued at reasonable frequent intervals by the Executive Engineer or by Deputy Executive Engineer, The details of such payments which will be made within fourteen days of the date each Certificate are set forth in the schedule under the article. The deductions from bills shown therein are the normal deduction to be made and do not include any recoveries or forfeiture under penal clauses. The contractor when applying for a certificate shall prepare a sufficiently detail bills based on the figures of quantities and rates in the contract schedule "A" to enable the Executive Engineer or the Deputy Executive engineer to check the claims and issue the certificate. The certificates as to such of the claims mentioned in the application are as allowed by the Executive engineer or the Deputy Executive Engineer shall be issued within fourteen days of the application. No application for a certificate shall be made within fourteen days of a previous application. No omission by the Executive" Engineer or the Deputy Executive Engineer to pay the amount due upon certificate shall violate or annul the contract.

Payment will be made as per the actual quantity of cement derived after conducting the DESIGN MIX formulation

### **Intermediate Payments:**

For intermediate Stage of work, only part rates as fixed by the Executive Engineer will be paid.

Part rates shall be worked out for the work done portion based on the actual operation involved keeping in view the value of the balance work to be done, to avoid unintended benefit to the Contractor in initial stage.

Full rate shall be paid when the work is completed to the full specifications as noted in the drawings.

22.2.4 No payment or advance will be made for unfixed materials when the rates are for finished work in site

## 23.0 Seigniorage Charges

23.1 The Seigniorage charge will be recovered from the contractors bills as per the rates prescribed below for the materials used on the work only. As per G.O.Ms.No.198, dt.13.08.2009 Industry & Commerce (MT) Dept of Government of Andhra Pradesh.

In case of revision, the revision rates as fixed by mines and Geology Department have to adopted.

1	2	3	4	5
Piece work contract	Intermediate	(Piece work contracts) Case (I) Total value of work done if it is less than 20 times earnest money.  (ii) Total value of work done less deduction shown in Col.(4); if the value of work done is more than 20 times earnest money.	<b>NIL</b>  5% of value of work in excess of 20 times earnest money to be held as security. To be credited to deposit only for the withheld amount excess Rs.500/-	<b>NIL</b>  To be refunded after final bill or of deposit as stated in otherwise to be refund in the final bill itself.
Piece work contract	Final bill	Total value of work done less amount if any withheld for proper maintenance (L.S) Contract.	A suitable amount at the discretion of the Engineer for the proper maintenance	To be refunded expiry of the maintenance period of twelve months to be refunded full final bill
L.S. or schedule contract supply of materials only	Intermediate	90 % of the value of work	10% of value towards security	----
L.S. or schedule contract supply of materials only	Final bill	Total value of work done	NIL	NIL
L.S. or schedule contract supply of materials and constructions.	Intermediate bill	92 ½ % of value or work done	7 ½% of value towards security	2.5% to be refunded in final bill and balace to be dealt with as indicated against final bill below
L.S. or schedule contract supply of materials and	Final bill	95 % of value of work done less amount	(i) 5% of value towards	To be refunded on expiry of the observation period or on remaining any defects

constructions.		any withheld for proper maintenance .	security to be credited to deposit (ii) suitable amount to be refunded on expiry of the liability period in addition to (i) above at the descretion of the Engineer for proper maintenanc e.	that appears during the observation period whichever happens last.
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### 25.1 Coarse Aggregate

I.S Sieve Designation	Percentage passing for Single sized Aggregate of Metal Size					Percentage passing for of Normal Size				
	1mm	63mm	43mm	20mm	16mm	12.50mm	10mm	40mm	16mm	12.50
80mm	100	-	-	-	-	100	-	-	-	-
63mm	85-100	-	-	-	-	-	-	-	-	-
40mm	00-30	35-100	100	-	-	95-100	100	-	-	-
20mm	0-5	0-20	85-100	100	-	-	30-70	95-100	100	100
16mm	-	-	-	85-100	100	-	-	90-100	-	-
12.5mm	-	-	-	-	85-100	100	-	-	90-100	-
10mm	0-5	0-5	0-200-30	0-45	85-100	10-35	15-35	30-70	40-85	-
4.75mm	-	-	0-50-5	0-10	0-20	0-5	0-10	0-10	0-10	-
2.36mm	-	-	-	-	-	0-5	-	-	-	-

TABLE-II

### 25.2 FINE AGGREGATE

I.S Sieve Designation	Grade Zone-I	Grade Zone-II	Grade Zone-III	Grade Zone-IV
10 mm	100	100	100	100
4.75 mm	90-100	90-100	90-100	95-100
2.36 mm	60-95	75-100	85-100	95-100
1.18 mm	13-70	55-90	75-100	90-100
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600.00 microns	15-34	35-59	60-79	80-100
300.00 microns	5-20	8-30	12-40	15-50
150.00 microns	0-100	0-10	0-10	0-15

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TABLE-III  
25.3 ALL-IN AGGREGATE GRADING

I.S Sieve Designation	40mm Nominal	20mm Nominal
80.00mm	100	-
40.00mm	95-100	95-100
20.00mm	45-75	30-50
4.75mm	24-75	10-35
600.00microns	8-30	0-6

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## **TENDER**

To  
The Estate Officer,  
Dr.Y.S.R. Horticultural University,  
V,R.Gudem,West Godavari District-534 101.

I/We do hereby tender and if this tender be accepted under take to execute the work **Supply and erection of 4Nos of 400Amps Air Break Switches along 2.80Km 11KV HT line at University campus, Dr.YSRHU, Venkataramannagudem, West Godavari District** and in accordance with the specifications and conditions attached therein.

I/We agree to keep the offer in this tender valid for period of three months mentioned in the tender notice and not to modify the whole or any part of it for any reason within the above period. If tender is withdrawn by me/us for any reason whatsoever the earnest money deposited by me/us will be forfeited to university.

I/We hereby distinctly and expressly declare and acknowledge that before the submission of my/our tender. I/We have carefully followed the instructions in the tender notice and have read the Andhra Pradesh Standard Specifications and the Preliminary Specifications therein and the Andhra Pradesh Standards Specifications addenda volume and that I/We have made such Examination of the contract documents and of the plan, specifications and quantities and rates and of the location and alignment where the said work is to be done and such investigation of work required to be done and materials required for the work as to enable me/us to thoroughly understand the of the same and requirements, covenants, agreements, stipulations and restrictions contained in the contract and in the said plans and specifications and distinctly agree that I/We will not hereafter make any claim or demand upon the university based upon the raising out of any alleged misunderstanding or misconception or mistake or my/our part of the said requirement, covenants, agreements, stipulations, restrictions and conditions.

If my/our tender is not accepted the EMD paid by the me/us shall be returned to me/us shall be returned to me/us on my/our application soon after the tender is decided or expiration of three months after the last date prescribed for the receipt of tenders whichever is earlier. If my/our tender is accepted the earnest money shall be retained by the university as security for the due fulfillment of the contract. If upon the written to me/us by the Estate officer, APHU,if I/We fail to attend the said office on the date therein fixed or if upon intimation being given to me/us by the Estate officer/Executive Engineer of acceptance of my/our tender. I/We fail to make the additional security deposit or enter into the required agreement as defined in tender notice, then I/We agree to the forfeiture of the earnest money. Any notice required to be served on me/us

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thereunder shall be deemed to have been served on me/us. If delivered to me/us personally or forwarded to me/us by post (Registered or ordinary) or left at my/our address given herein. Such notice shall, if sent by post be deemed to have been served on me/us at the time when in due course of post if it would be delivered at the address to which it is sent.

I/We shall, if it becomes necessary, the contract will be sub-let subjected to the condition as per Para 12.0 of tender notice.

I/We fully understand that the written agreement to be entered into between me/us and the university shall be the foundation of the right of both parties and the contract shall not be completed until the agreement has first been signed by me/us and then by the proper officer authorized to enter into the contract on behalf of university.

7. I am/we are professionally qualified and my/our qualifications are given below:

Name	Qualifications
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If I/We employ the following technical staff for supervising the work I/We shall see that one of them is always at site during working hour personally checking all items of works and paying extra attention to such works which require special attention.

Name of Technical Assistant Proposed to be employed	Qualification & Address
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Note: a) If the tender fails to employ Technical Assistant as stipulated in the tender

And agreement bond, the work will be suspended or the department will engage a technical assistant and recover the cost there of from the contract. In cases where the contractor has not engaged a technical assistant, a fixed Sum of Rs ..... per month towards cost of the technical assistant will be recovered from the contractor.

b) The successful tenderer will have to furnish the name and qualifications of the technical Assistant employed by the contractor together with the willingness letter of the technical assistant and appointment orders of the contractor at the time of the concluding agreement bond.

**Indemnity Bond is to be Executed by the Contractor While  
Entering into any Agreement.**

NAME OF THE WORK : **Supply and erection of 4Nos of 400Amps Air Break Switches  
along 2.80Km 11KV HT line at University campus, Dr.YSRHU,  
Venkataramannagudem, West Godavari District**

I.....  
Contractor.....  
S/o.....aged.....years.....  
Resident.....

and myself to pay all the claims which may come (a) under workmen's compensation Act,1923, with any statutory modification thereof and rules there under or other wise for or in respect of any damage or compensation payable in connection with an accident or injury sustained (b) under minimum WagesAct,1938. (c) Under payment or wages Act, 1936 (d) Under the contractor labour (Regulation Act 1970) by any workmen engaged for the performance of the business relating to the above contract.

Failing such payment of claims or workmen engaged in the above work. I abide in accepting for the recovery of such claims effected from any of my assets with the department.

As per contract labour (Regulation and abolition) Act,1970 the contractor has to produce the licence Obtained from the licencing officer to the Labour Department along with the tender or at the time of Agreement.

**SCHEDULE-C**  
**LIST OF SPECIFICATIONS FOR THE VARIOUS ITEMS OF WORKS**  
**SUPPLEMENTING THOSE DESCRIBED IN SCHEDULE 'A' BY I.S**  
**NUMBERS**

Sl No	Short Title	I.S. Number
<b>I</b>	<b>CEMENT:</b>	
1.	43 Grade ordinary port land cement	8112-1989
2.	Methods of physical tests for hydraulic comments	4031 (Part 1 to 15)-1988
<b>II</b>	<b>AGGREGATES:</b>	
1.	Aggregates (Coarse and fine) from natural source for concrete	383-1970
2.	Specification for sand for masonry	2116-1980
<b>III</b>	<b>BUILDING STONES:</b>	
	Method of Tests for determination of strength properties of natural building stones.	121 (Part-1 to Part-IV)-1974
	Part-I : Compressive strength	
	Part-II : Transverse strength	
	Part-III : Tensile strength	
	Part IV : Shear strength	
2.	Quarrying stones for construction purposes, recommended practice	83831-1977
3.	Measurement of buildings and Civil Engineering works	1200 (Part-IV) -1976.
4.	Stone Masonry: Specifications for dressing natural building stones.	1129-1972 (Part-IV)
5.	Drilling and permeability tests	5529 (Part-III)- 1973
6.	Code of practice for permeability tests (during and after construction)	11216-1985
<b>IV</b>	<b>STEEL</b>	
1.	Code of practice for bending and fixing of bars for Concrete reinforcement.	2502-1963
2.	Specifications for High Strength Deformed Steel bars and wires for concrete reinforcement:	1781-1985
3.	Recommendation for detailing of reinforcement in reinforced Cement concrete works.	5525-1969
4.	Mild steel and Medium Tensile steel bars for concrete reinforcement	432 (Part-VIII)-1982
5.	Measurement of Building and Civil Engineering works Part-VIII steel works and iron work)	1200 (Part- VIII)-1993
<b>V</b>	<b>MASONARY :</b>	
1.	Code of practice for construction of stone masonry Rubble stone masonry	1597 (Part-1)-1992

2.	Measurement of building and Civil Engineering works Plastering and pointing	1200 (Part -XII)-1976
<b>VI</b>	<b>CONCRETE :</b>	
1.	Measurement of building and Civil Engineering works method of concrete works	1200(Part-II)-1974
2.	Concrete works : Code of practice for plain and reinforced concrete	456-1978
3.	Precast concrete coping blocks	5751-1984
4.	Method of Testing for strength of concrete	516-1959
5.	Specification for Admixtures for concrete	9103-1979
6.	Method of sampling and analysis of concrete	1199-1976
7.	Concrete mixer- batch type	1791-1968
8.	Concrete Vibrators- immersible type	2505-1980
<b>VII</b>	<b>EARTH WORK</b>	
1.	Measurement of building and Civil Engineering works method for earth work	1200 (Part-I)-1974
2.	Safety Code for filling and other deep foundation.	5121-1969
3.	Safety Code for excavation works	3701-1966
4.	Code of practice for earth work on canals	4701-1982
5.	Method of testing for soils Determination of water content	2720 (Part-II)-1973
6.	Determination of water content dry density relation using light compaction	2720 (Part-VIII)-1980
7.	Determination of Dry density of soils in place by sand replacement method (first revision)	2720 (Part- XXVII)- 1974
8.	Determination of dry density of soils in - situ	270 (Part- XXIX)-1975
<b>VIII.</b>	<b>OTHER SUBJCTS:</b>	
1.	Safety code for scaffolds	3698 (Part-I)-1968
2.	Safety Code for ladders	3696 (Part-II)-1966
3.	Recommendation of stacking and storage of	4082 -1977

**Schedule-B**

**LIST OF DRAWINGS**

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<i>Name</i>	<i>Drawing No.</i>	<i>Description</i>
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**SECURITY CLAUSE**

The Drawing and specifications made available to the tenders shall exclusively be used on this work and they are restrained from passing on such plans to any unauthorized hand either in parts or in full under the provisions of section 3 and 5 of the official secrets Act 1923. Any violation in this regard will entail suitable action under appropriate clauses of Official Secrecy Act 1923.

**SCHEDULE (C)**

List of specifications for the various works supplementing those described in schedule (A) by standard specifications numbers.

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**DECLARATION**

I/ We hereby declare that I/We have inspected and satisfied myself/ourselves thoroughly and I/We am/are conversant with the local conditions, regarding all materials and about required for the work on which I/We have based my/ our rates for the work. The specifications, plans design sand conditions of contract on which the offer has been based completely studied by me/ us before submitting the tender.

### **FOOT NOTE TO SCHEDULE "A"**

All the items of work will have to be executed as per standard specifications laid down in APSS and the special specifications and general features of design attached herewith. The quoted offer shall include all operations described in the specifications and general features.

All the rates quoted in the Schedule 'A' shall be through rates in rupees and praise for completed item of work as per APDSS inclusive of all charges such as leads, lifts, classifications and incidental charges, all taxes and royalties etc.

3. The quantities given here are those upon which the lumpsum cost of the work is based, but they are subjected to alternation, omission, deduction, or addition as provided for in the condition of the contract and not necessarily shown the actual quantities of work to be done.

It is to be expressly understood that the measured work is to be taken net (not withstanding any custom or practice to the contrary) according to the actual quantities placed and finished according to the drawing or as may be ordered from time to time by the Executive Engineer and the cost calculated by measurement or weight at the respective prices without any additional charge for any necessary or contingent works, connected therewith. The rate shown are for the works in situ and complete in every respect.

All items of work will have to be executed as per standard specification laid down in A.P.S.S. the special specification and general features of design attached herewith. The quoted offer shall include all operation described in the said specification and general features and shall be inclusive of all charges such as leads, lifts, classification, incidental charges, all taxes, royalties, hire and operational charges of all T & P security measures etc., complete.

Vernacular signature should be translated into English.

Addition and alternation in schedule or condition will disqualify the tender.

Steel centering should be used for all members involving the use of centering.

The tenderer should inspect the site & checkup the possible water source for carrying out work though out the year, monsoons or non monsoons irrespective of the quantum of rainfall and quote their offer accordingly. No subsequent claims for extra water leads will be entertained under any circumstances.

The contractor will not be entitled to claim any interest on arrears which he may be get on the final settlement of accounts.

The contractor shall make his own arrangement for the acquisition of stone and other quarries etc.

Metal and chips of the specified guages will have to be stacked separately in the standard size after screening as per specifications before using on work.

**PRICE BID**

CONTRACTOR'S OFFER FOR THE PART – 1 OF SCHEDULE “A”

**NAME OF THE WORK: SUPPLY AND ERRECTION OF 4NOS OF 400AMPS AIR BREAK SWITCHES ALONG 2.80KM 11KV HT LINE AT UNIVERSITY CAMPUS, DR.YSRHU, VENKATARAMANNAGUDEM, WEST GODAVARI DISTRICT**

I offer to undertake the execution of the above work at an overall percentage of

<p><b>(In figures).....%</b></p> <p>.....<b>(in words)</b></p> <p><b>Excess / Less / At Estimated Rates</b></p>
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Over Estimate contract value of the work shown in Schedule – A (Part-1)

**Please strike down which is not applicable**

**Note:** If there is any difference between the figures and wording, the percentage quoted In words will be prevail.

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## **SCHEDULE 'A' – PART- II**

### **Details of Maximum amount reimbursable to the Contractor**

1. Towards Insurance premium	: Rs	Nil
2. Towards Technical agent charges one graduate Engineer and one diploma Engineer.	: Rs	Nil
3. Any other item	: Rs	Nil

The tenders are eligible for reimbursement of amounts towards insurance and engaging technical personnel not exceeding the amounts indicated above, subject to production of insurance policies, copies of appointment order and payment voucher for technical personnel etc, failing to comply with the above, reimbursement shall not be allowed but suitable penalty shall be imposed for not engaging technical personnel and the cost of contractor duly deducting the premium from the contractor bills. Contractor has to take the insurance policy in favour of the Department/University.



## TENDER SCHEDULE

**NAME OF THE WORK : SUPPLY AND ERECTION OF 4 NOS 400AMPS AIR BREAK SWITCHES ALONG 2.80 KM 11KV HT LINE AT UNIVERSITY CAMPUS, DR.YSRHU, V.R.GUDEM, WEST GODAVARI DISTRICT.**

a) The quantities given here are those upon which the lump sum cost of the work is based, but they are subject to alterations, omissions, deductions or additions, as Provided for in the conditions of the contract and do not necessarily show the actual quantities of work to be done. The unit rates noted below are those governing Payment for extras or deductions or omissions according to the conditions are as set forth in the PS to APSS and other conditions or specifications of this contract.

b) It is to be expressly understood that the measured work is to be taken net (not withstanding, any custom or practice to the contrary) according to the actual quantities placed and finished according to the drawings or as may be ordered from time to time by the Executive Engineer and calculated by measurement or weight at the respective prices without any additional charge for any necessary or contingent works connected there with. The rates quoted are for works in site and complete in every respect.

S.N o.	QUANTITY	DESCRIPTION OF ITEMS	APD SS NO	Unit	RATE IN FIGURES (Rs.)	RATE IN WORDS	AMOUNT IN (Rs.)
<b>CIVIL ITEMS</b>							
1	4.00	Nos (Four)	SS	1 No	18669.24	(Rupees Eighteen Thousand Six Hundred and Sixty Nine point Two Four only)	74677.00
		Supply and Erection approved made 11KV, 400 A 3 phase central post rotating double break type AB switch(isolator) as per IS 9921) without earth blade, gang operated, Horizontal type, operating mechanism with GI spring loaded reverse loop type fixed contact, solid HD electrolytic copper tubular moving contact with silver/Nicle plated at end points, 9 Nos post insulators of 12Kv(IS 2594 and IS 5350), Hot Dip galvenizing hardware, GI pipe, Nuts and bolts					

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2	6.00	Nos (Six )	Supply and erection porcelain 11 KV Disc Insulator (IS 731/1971) with minimum creepage distance of 300mm on existing cross arm including all accessories like Hot dip GI spindle of 300mm on existing cross arm including all accessories like Hot dip GI Spindle and nuts etc.,	SS	1 No	386.24	(Rupees Three Hundred and Eighty Six point Two Four only)	2317.00
3	9.00	Cum (Nine)	Supply and erecting approved make 11 KV, 5KA metal oxide lightning arrestors suitable for 11KV supply with necessary materials non existing cross arm.	SS	1 No	436.24	(Rupees Four Hundred and Thirty six point Two Four only)	3926.00
4	80.00	Rmt (Eighty)	Supply and erecting 7/3.15 AAAC / Rabbit (55 Sq.mm) conductor for Overhead line with stringing, binding and suitable size of clamps for jumpering etc.,	SS	1 Rmt	39.24	(Rupees Thirty Nine point Two Four Only)	3139.00
5	1.00	Nos (One)	Supply and Fixing of 11KV - V - cross arms with 75 x 40mm MS channel including 4 nos 50 x 50 x 6mm packing plates (9 Kgs) duly welded with necessary clamping arrangements etc.,	SS	1 No	1622.90	(Rupees One Thousand Six Hundred and Twenty Two Point Nine Zero)	1623.00
					<b>Total</b>		<b>85682.00</b>	
<b>TOTAL ITEMS FIVE (05) ONLY</b>								
<b>(RUPEES EIGHTY FIVE THOUSAND SIX HUNDRED AND EIGHTY TWO ONLY)</b>								

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