

**OFFICE OF THE EXECUTIVE ENGINEER
ANAND AGRICULTURAL UNIVERSITY
ANAND**

NAME OF WORK:- Upgrading remain facility in brooder house-1 of poultry Unit at A. A. U. Anand.

LIST OF MATERIAL TO BE USED FOR WORK :-

| Sr. no. | MATERIAL | MAKE/PLACE |
|---------|--|--|
| 1 | TMT BAR | TATA TISCO, KAMDHENU, NATIONAL, GALENT, NRE, NILKANTH, VINAYAK, Germen MAKE ONLY. |
| 2 | CEMENT | O.P.C- ONLY MAJOR PLANT- ACC, ELEPHANT, AMBUJA, SIDDHI, LOTUS, ULTRA TECH CEMENT, BINANNI CEMENT, SANGHI, JK lakhmi, wonder, Vadraj, MAKE. |
| 3 | KAPACHI/ METAL | BLACK TRAP ONLY |
| 4 | SAND | SANKHEDA/BADALPUR/BODELI ONLY |
| 5 | POLISH KOTAH | GREEN COLOUR ONLY |
| 6 | VITRIFIED/ CERAMIC/ GLAZE TILES | AS PER TENDER ITEM |
| 7 | PLUMBING SANITARY | AS PER TENDER ITEM |

Only above said material is to be used as per site condition/situation.

Contractor's sign

Executive Engineer

T E N D E R

NAME OF WORK:- Upgrading remain facility in brooder house-1 of poultry Unit at A. A. U. Anand.

Employer: - : Anand Agricultural University
Anand

Site: - : Anand Agricultural University
Anand

-: SPECIFICATION :-

All the works shall be done as per the specification laid down in the Bombay P.W.D. hand book Volume, I, II 9th edition and latest I.S.S. specifications and according to the order of the Executive Engineer, Anand in conformity with the following addition and alterations. In case of dispute, the decision of the Executive Engineer, Anand Agricultural University, Anand shall be considered as final and binding to the contractor.

All the materials required for the work is to be used as per details specification attached with the tenders for material's or approved by Executive Engineer.

MEASUREMENTS:-

Mode of measurement has been specified in each item however in case where details are not provided standard procedure.

1. All damages to floor, walls, roads sides of buildings etc. during the process of fixing water supply, drainage and Sanitary installations shall be restored to the original condition by the contractor of his own cost.
2. All the pipes, fittings and appliances shall be thoroughly cleaned before fixing and particular care shall be taken to see that no materials gets into them during fixing.
3. All the joints shall be of the same diameters of the inside before expect wherever mentioned.
4. All the joints shall be rendered leak proof and tested for the same to ensure efficient functioning of pipes and appliances.
5. All diameters of pipes shall be of the same diameters of the inside before expect wherever mentioned.
6. Entire water supply and sanitary items arrangements shall be subjected to pressure test in accordance to IS Code at the contractors cost prior to commissioning.
7. All the water supply and sanitary items shall be carried out by the experienced plumber to the entire satisfaction of Engineer-in-charge.
8. Rate of each items are including of testing of its and connection and pipe etc. for no leakage.

Contractor

Executive Engineer

S P E C I F I C A T I O N

Note:

The Various items of works shall be carried out in general as per relevant ISS specification and that or the latest addition of P.W.D. hand book volumes I and II along with the following specification where there is contradiction between the following specifications and P.W.D. hand book the following specification and P.W.D hand book the following specification shall be govern in matters or interpretation etc. the design of the Director of purchase and Properties / Architect shall be final and binding on the contractor.

- 1) The contractor is to allow for executing any work which in the Engineer/ Architect opinion is like to cause and annoyance to occupants in the vicinity at times as the Architects may directs.
- 2) The contractor shall deliver daily to the Engineer in charge of works a report as to the number of operative employed in all traders and deliver to the side.
- 3) The treasure-troves coins or objects of a quantity which may be found on the site shall handed over to the employees.
- 4) The contractor is to provides at all times curing the progress of work and maintenance period proper mean of the access with ladders and gangways etc. the necessary attendance to move and as per as directed for the inspection or measurement of the work by architect consulting Engineer structural engineer and D.P.P. authorities or their representatives.
- 5) The contractor is to allow for general attendance upon sun contractor including the free use of plot and scaffolding and the provision and special scaffolding required and is allow their operative the use of latrine water closest mess room & lock up shop for each.
- 6) The contractor is to set up and level the work and will be responsible for the security of same. He is approved all instruments and attendance require by the Architect consulting Engineer and University authorities or their representatives for checking their work.

7) The Contractor is to cover up and protect the works from weather and is to suspend all set operations during weather which is in the Engineer/Architects opinion will be detrimental to the work.

8) The contractor is to allow for general foreman to be constantly on the works through out the period of their execution and for supervision as required under the conditions of contract.

9) The contractor shall provide erect and maintain proper shades and temporary buildings for the storage and protection of materials etc. and for the execution of works which may be fabricated or brought on the site.

10) The contractor shall provide and erect and maintain proper shade mess rooms for the operatives with adequate lighting attendance etc.

11) The contractor shall provide and erect in approved positions all necessary sanitary conveniences with the rules and regulations of the authority maintain in a clean and orderly condition.

12) The Contractor shall provide erect and maintain an office for the general foreman with desk drawers etc and adequate lighting and attendance.

13) The contractor shall provide erect and maintain for the Engineer in charge with desk drawers on office etc. and adequate lighting and attendance.

14) The Contractor shall provide erect and maintain office with desk, drawers etc. and adequate lighting and attendance for the architects representatives.

15) The contractor shall allow for paying all rates, taxes and other charges which may be made by local or other authorities in the condition with offices sheds and other temporary building erected for the purpose of the contractor.

16) Board:

A board of size approximately 8' X 6' as per drawings shall be made be up to at approved place on the site. This board shall be painted in approved colours the name of :

1. The Proposed construction and the employer.
2. The Architects.
3. The buildings contractors.
4. The structural consultants.
5. Any other specialist consultant and

6. Consulting Engineer as directed by the Architects. This shall be provided the contractor at his own expenses.
- 17) Samples of each class of materials and workmanship at be submitted by the contractor for the approval of the Engineer /Architects and after such approval these samples shall be deposited in the office of the Engineer in charge and the contractor will be required to Performa all the works of his contract in accordance with these samples.
- 18) If the contractor wants to make any item No. of at his workshop or at any other place and not on site written application for permission to do so shall have to be submitted to the Engineer In charge /stating clearly the item of work place of its making etc. If the said application is rejected by the Engineer in charge the same item of work shall have to be carried out on site at no extra cost.
- 19) On completion all works must be cleaned down rubbish removed and the works and land cleared of rubbish surplus materials and other accumulations and ever their left in a clean and orderly condition./The contractor shall to this work at his own expenses as per the instructions of the Engineer in charge.
- 20) The contractor shall prepare a sample of any work required by the Engineer/Architects and get in the Engineer/architects approval before proceeding with the quantity work. The contractor from the site at his cost shall remove the rejected sample. The contractor shall not be eligible for any compensation for preparing for removing the sample.
- 21) No extra shall be paid on any item on account of the floor lead except where specifically mentioned.
- 22) All quantities mentioned in the schedule of quantities are only approximate and the contractor shall not be eligible for any claim due to any variation in or commission of any item of works.

Contractors Signature

Executive Engineer

Place :

Date:

-: ANNEXTURE - 'A' :-

Rates of different materials and site required for the excavation of work s per specification & wages of labours for the satisfaction completion of the work as per details

Specification:-

(A) For labour : **Category** **Rate /Unit**

- | | |
|-------------------------|---|
| i) Skilled labour | Mistry grade – I Maission grade – I Carpenter grade –I Plumber grade – I Black smith grade – I Wiremen grade – I Painter Any other if required |
| ii) Semi skilled labour | Bhisti Maission grade – II Carpenter – II Plumber grade – II Black smith grade –II Any other if required |
| iii) Unskilled labour | white washer Male helper Female helper |

(B) For materials:

| Sr. No | Materials | Unit | Rate /Unit lead in kms |
|--------|--------------------------|----------|------------------------|
| 1 | Cement | M/.Tonne | |
| 2 | Conventional brick | 1000 Nos | |
| 3 | Coarse sand | Cumt | |
| 4 | Fine sand | Cumt | |
| 5 | Kapchi 12mm to 20mm size | Cumt | |
| 6 | Bricks bats | Cumt | |
| 7 | Lime | Kg | |
| 8 | Water proof cement paint | Kg | |
| 9 | Oil paint | Litre | |
| 10 | French polish | Litre | |

Executive Engineer

**ANAND AGRICULTUAL UNIVERSITY
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Details regarding works executed / on hand by the contractor

- 1) Name of the firm
- 2) Partners :
- 3) Qualified staff :
- 4) Tools, plants & Equipments :
- 5) Important works :
- A) Carried out as so far Employer Cost
 Architect
- B) On hand
- 6) Additional information if any :
- 7) Rate analysis with basic rates
of materials for major tender item :

Contractor

Executive Engineer

Specification No.

Item No. : 10

Providing and fixing tata make 15mm x 15mm x 12G, G.I. Crimped Jali with 35x35x6 mm thick M.S. angle frame and 35x6 mm M.S. flat on both side (two nos. horizontal & two vertical) fitted with crimped jali using welding/nut bolts and necessary fastening for wall including applying priming coat after preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and scoured with brushes fine steel wool, scrappers and sand papers with ready mixed red oxide and painting two coats with synthetic enamel raw silk oil paint of asian/berger to give an even shade including cleaning the surface of all dirt, dust and other foreign matter etc completed as per design & drawing and as directed by Engineer - in - charge.

Work shall be carried out as per directive of the Engineer-in-charge. The Crimped Jali to be used shall be of tata make 15mm x 15mm x 12G galvanized jali.

Fixing shall be done in true line and level proper laps (min. of 15 cm. width) should be provided. Each laps should be continuously weaved with galvanized wires in proper manner so as to keep joints tight. Jali should be stretched to full capacity for fixing. It should be fixed with proper size of nuts, bolts and washers with M. S. Flats on both side/M. S. flat one side and M. S. angle on other side as a vertical support as the case may be and with M. S. flats on both the sides at Top and bottom of the jali.

M. S. angle and M.S. flats should be of required size as specified by the Engineer-in-charge as per design and drawing. M. S. angle should be fixed concrete/wall in truly vertical portion M. S. flats shall be fixed as shown in the drawing/as directed by the Engineer-in-charge.

Painting :

The surface shall be cleaned and rubbed with sand paper to bring it more plane, after preparing surface one coat of primer of approved quality and brand shall be applied up to the satisfaction of Engineer-in-charge.

After priming coat, all holes cracks open joints and similar other minor defects of every kind shall be stopped with putty made without mixed linseed oil.

The paint shall be applied with brush. It shall spread as smoothly as possible. Final coat shall be very carefully crossed and laid off. So that brush marks are not visible. Each coat of paints shall be allowed to dry thoroughly and shall be little rubbed before the next one is applied.

Finished work shall not show any hair marks, ridges or dry patches of paint and go paddles shall left in the corners of panels.

Mode of Measurement and Payment :

Rate is including the cost of all labour materials, tools and plants, equipments etc. required for the satisfactory completion of the work. It shall be paid per Smt.

Specification No.

Item No. : 11

Providing and fixing tata make 15mm x 15mm x 12G, G.I. Crimped Jali door with 40x40x6mm M.S. Angle door frame, 35x35x6 mm thick M.S. angle shutter frame and 35x6 mm M.S. flat (nine horizontal & two vertical) fitted with crimped jali using nut bolts, Aldrap, stopper, handle and necessary fastening for wall including applying priming coat after preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and scoured with brushes fine steel wool, scrappers and sand papers with ready mixed red oxide and painting two coats with synthetic enamel raw silk oil paint of asian/berger to give an even shade including cleaning the surface of all dirt, dust and other foreign matter etc completed as per design & drawing and as directed by Engineer - in - charge.

Work shall be carried out as per directive of the Engineer-in-charge. The Crimped Jali to be used shall be of tata make 15mm x 15mm x 12G galvanized jali.

Fixing shall be done in true line and level proper laps (min. of 15 cm. width) should be provided. Each laps should be continuously weaved with galvanized wires in proper manner so as to keep joints tight. Jali should be stretched to full capacity for fixing. It should be fixed with proper size of nuts, bolts and washers with M. S. Flats on both side/M. S. flat one side and M. S. angle on other side as a vertical support as the case may be and with M. S. flats on both the sides at Top and bottom of the jali.

M. S. angle and M.S. flats should be of required size as specified by the Engineer-in-charge as per design and drawing. M. S. angle should be fixed concrete/wall in truly vertical portion M. S. flats shall be fixed as shown in the drawing/as directed by the Engineer-in-charge.

Painting :

The surface shall be cleaned and rubbed with sand paper to bring it more plane, after preparing surface one coat of primer of approved quality and brand shall be applied up to the satisfaction of Engineer-in-charge.

After priming coat, all holes cracks open joints and similar other minor defects of every kind shall be stopped with putty made without mixed linseed oil.

The paint shall be applied with brush. It shall spread as smoothly as possible. Final coat shall be very carefully crossed and laid off. So that brush marks are not visible. Each coat of paints shall be allowed to dry thoroughly and shall be little rubbed before the next one is applied.

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