

**AGRICULTURAL ENGINEERING DEPARTMENT**

**Name of Work : Estimate for the Construction of Naturally Ventilated Poly House - I (2400 Sq. M) At Eluvapalli Village, Hosur Block, Krishnagiri District Under RURBAN Scheme**

**PRICE BID**

### Schedule-A

**Name of Work : Estimate for the Construction of Naturally Ventilated Poly House - I (2400 Sq. M) At Eluvapalli Village, Hosur Block, Krishnagiri District Under RURBAN Scheme**

| SI No | Quantity |     | Description   | Rate in Figures and In Words | Unit of Calculation     | Amount |
|-------|----------|-----|---|------------------------------|-------------------------|--------|
| 1a    | 111.290  | cum | Earth work excavation for foundation in Soft Disintegrated Rock to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification. |                              | 1 cum (One Cubic Metre) |        |
| 1b    | 32.100   | cum | Earth work open excavation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the excavated earth with a lead of 10 mts. within the compound in places shown by the departmental officers and clearing and levelling the site, etc., complete complying with standard specification.  |                              | 1 cum (One Cubic Metre) |        |
| 2     | 28.570   | cum | Supplying and filling in foundation, basement, etc with filling sand in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.   |                              | 1 cum (One Cubic Metre) |        |
| 3     | 90.000   | cum | Supplying and filling of conveyed Gravel by lorry in Basement filling including stacking for Pre-measurement conveyance loading and unloading charges and all other incidental charges including filling, layering, watering and consolidation etc., complete as directed by the dept. officers and complying with standard specification   |                              | 1 cum (One Cubic Metre) |        |
| 4     | 28.570   | cum | Cement Concrete 1:5:10 (One Cement, Five sand and Ten hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick well rammed, consolidated and curing etc. complete complying with standard specification  |                              | 1 cum (One Cubic Metre) |        |
| 5     | 13.800   | cum | Brick work in Cement Mortar 1:5 using best quality of Ground moulded Chamber Burnt Bricks of size 9"x4-3/8" x2-3/4" for foundation and basement including curing, etc., complete complying with standard specification.   |                              | 1 cum (One Cubic Metre) |        |

| Sl No | Quantity |     | Description   | Rate in Figures and In Words | Unit of Calculation        | Amount |
|-------|----------|-----|---|------------------------------|----------------------------|--------|
| 6     | 6.800    | cum | Brick work in Cement Mortar 1:6 using best quality of Ground moulded Chamber Burnt Bricks of size 9"x4-3/8" x2-3/4" including curing, etc., complete complying with standard specification.   |                              | 1 cum (One Cubic Metre)    |        |
| 7     | 4.168    | Qtl | Supplying, fabricating and placing in position Mild Steel / Ribbed Tor Steel grills for all RCC works as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)   |                              | 1 Qtl (One Quintal)        |        |
| 8     | 231.120  | Sqm | Supplying and erecting Steel Centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals, plinth beams, grade beams, staircase steps, etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)                        |                              | 1 Sq. M (One Square Meter) |        |
| 9     |          |     | Reinforced Cement Concrete 1:1-1/2:3 (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) etc., complete complying with standard specification and as directed by the departmental officers |                              |                            |        |
|       | 19.890   | cum | For Column Foundation   |                              | 1 cum (One Cubic Metre)    |        |
| 10    | 40.50    | Sqm | Supplying and fixing of M.S.grill of approved design for grill gate, grill work to doors and windows openings etc., using necessary mild steel etc., complete complying with standard specification.  |                              | 1 Kg (One Kilo Gram)       |        |

| SI No | Quantity |     | Description  | Rate in Figures and In Words | Unit of Calculation        | Amount |
|-------|----------|-----|--|------------------------------|----------------------------|--------|
| 11    | 1.62     | Sqm | UPVC Window Specification : Supplying and fixing UPVC (Unplasticized Polyvinyl Chloride) Windows of casement type (Open) from the profile the size of Outer frame 60mmx58mm and shutter profile are reinforcement with GI/1mm 125GSM and 100% corrosion free, the profiles are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with over all the edges of frame and shutter the shutter will be provided with Espag multi power point locks and also it Operates as handle. The corners and joints should be welded and cleaned. Radiations free pin headed plain or brown colour glass 4mm thick should be provided to the shutter and it should not allow leakage of water even at most ranging storms and should have key lokable action security protetive hinges strong locking systems and as per size for arresting noise and energy loss. The connecting mechanism between sash and outer frame that enables opening of the window. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frame.The window should be got approved from the Executive Engineer before use on work  |                              | 1 Sq. M (One Square Meter) |        |
| 12    | 2.10     | Sqm | Manufacturing, supplying and fixing of Steel doors with following specification. MS angle of size 40x40x6mm at 3.5 kg/m used for outer frame and MS Angle of size 35x35x5 mm at 2.6 Kg/m for the shutter frame. Stiffeners with 32x6 mm at 1.5 Kg/m MS Flat is provided as the lock rail of the door and welded intact on both ends to the shutter frame. 18 GCR Sheets of best quality is laid as panel in the shutter frames. over the 32x6mm at 1.50kg/m MS Flat on the rear side of the door, M.Sandwitching the CR Sheet for rigidity. Additional stiffeners with 18x5mm at 0.7 Kg/m MS flats are provided diagonally on the rear side of the shutter. 2 Nos. of hinges in case of single leaf and 4 Nos. of hinges in case of double leaf shutters is provided. 6 Nos. of hold fasts 200mm length spliced at the ends are welded to the outer frame of the door. Tower bolt 1 No. one at the top is provided. One aldrop is provided in case of double leaf door at lock rail section in the door. In single leaf doors, one more aldrop is provided in the inner side of the lock rail section of the door, one rotating locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place in case of a double leaf door. (Single leaf) |                              | 1 Sq. M (One Square Meter) |        |

| Sl No | Quantity |     | Description  | Rate in Figures and In Words | Unit of Calculation        | Amount |
|-------|----------|-----|--|------------------------------|----------------------------|--------|
| 13    | 60.00    | RM  | Supplying and fixing in position best approved of BIS quality PVC rain water down fall pipes of 110mm dia., having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification. |                              | 1 RM ( 1 Running Meter )   |        |
| 14    | 81.17    | Sqm | Plastering with Cement Mortar 1:5 (One cement and Five sand), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.  |                              | 1 Sq. M (One Square Meter) |        |
| 15    | 81.17    | Sqm | White washing one coat with freshly burnt white shell lime in all floors including cost of lime, blue powder, fevicol type gum, brushes, scaffolding charges, etc., complete complying with standard specification and as directed by the departmental officers.   |                              | 1 Sq. M (One Square Meter) |        |
| 16    | 81.17    | Sqm | Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of Paris putty, wherever required etc., complete complying with standard specification.  |                              | 1 Sq. M (One Square Meter) |        |
| 17    | 7.44     | Sqm | Painting new iron works such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)   |                              | 1 Sq. M (One Square Meter) |        |
| 18    | 1.00     | Pts | Wiring with 2x1.5sqmm (22/0.3) PVC insulated unsheathed SC Cu. Conductor of 1100V grade in suitable PVC rigid pipe concealed in wall and ceiling with PVC accessoires with Metal switch box and 5A Modular switch in flush with wall with suitable top plate cover for making good of the concealed portion with suitable colour for PVC concealed light point / fan point (For electronic regulator) SD - 24 Modified   |                              | 1 Pts (One Point)          |        |

| SI No                 | Quantity |     | Description  | Rate in Figures and In Words | Unit of Calculation        | Amount |
|-----------------------|----------|-----|--|------------------------------|----------------------------|--------|
| 19                    | 2.00     | No  | Supply and fixing of single box type 4'36 W flu fitting complete with electronic ballast with TW round blocks on wall or ceiling with flu tube with PVC unsheathed Copper leads from terminals to the fitting. (SD-87)   |                              | 1 No. (One Number)         |        |
| 20                    | 5.00     | No  | Supply and fixing of 5A / 15A 3 pin combined flush type wall socket with 15A flush type switch on suitable TW Box (SD-136)   |                              | 1 No. (One Number)         |        |
| 21                    | 5.90     | cum | Removing hard rock by wedging, chiseling and trimming to proper shape where blasting is prohibited.  |                              | 1 cum (One Cubic Metre)    |        |
| 22                    | 9.00     | Sqm | Supply and installation of Anti Termite treatment for basement as per standard specification and as recommended by departmental officers.  |                              | 1 Sq. M (One Square Meter) |        |
| 23                    | 12801.89 | Kg  | Fabricating supplying and erecting the Pre-engineered steel building structure using Galvanised structural steel Tubes, conforming to Grade 50 with yield strength of 345 MPa baseplate, sag rods, struts including cleats to receive Tubular purlins, cutting, drilling holes, welding, grinding fixing the members with necessary bolts nuts, anchor bolt of approved quality, hoisting, aligning and placing the Tube sections in position as per the design got approved from the department, fixing purlins with sag rods, supporting the purlins from the beams on both sides. The welding should be done with submerged arc welding to full length etc., complete complying with standard specification and as directed by the departmental officers, etc., complete. |                              | 1 Kg (One Kilo Gram)       |        |
| 24                    | 4427.28  | Sqm | Supplying and erecting of Drip Lock Diffuse, (200 Microns, UV Stabilized, Diffused, Anti Drip, 5 Layer) complete complying with standard specification and as directed by the departmental officers, etc., complete.   |                              | 1 Sq. M (One Square Meter) |        |
| 25                    | 1208.00  | Sqm | Supplying and erecting of 40 Mesh Insect Net, 120 GSM complete complying with standard specification and as directed by the departmental officers, etc., complete.   |                              | 1 Sq. M (One Square Meter) |        |
| 26                    | 300.00   | Sqm | Supplying and erecting of Skirting Film 140 GSM complete complying with standard specification and as directed by the departmental officers, etc., complete.   |                              | 1 Sq. M (One Square Meter) |        |
| 27                    | 10.24    | Sqm | Supplying and fixing of PVC prefabricated sandwich 50 mm thick puf panels with rigid puf injected CFC free polyurethane foam as insulation and precoated GI sheet 0.50mm thick on both sides as skin materials and having density of 40 Kg/m3 for Filtration Room Roofing complete as directed by the departmental officials   |                              | 1 Sq. M (One Square Meter) |        |
| <b>Total</b>          |          |     |  |                              |                            |        |
| <b>Add GST @ 12 %</b> |          |     |  |                              |                            |        |
| <b>Grand Total</b>    |          |     |  |                              |                            |        |
| <b>In Words</b>       |          |     |  |                              |                            |        |