

LIST G (CON') - WORK OF THE RECYCLED LANDSCAPE IRRIGATION SYSTEM FOR THE GREEN HOUSE

CONCEPT DRAWING OF THE IRRIGATION SYSTEM FOR ECOLOGICAL GREEN HOUS

**HOUSE VENTILATOR:**  
 \* A MOTOR-DRIVE FAN FOR PULLING STALE AIR FROM THE SPACE OF THE GREEN HOUSE AND EXHAUSTING IT THROUGH VENT OPENING.  
 \* ACCORDING TO THE SITE CONDITION, WORK AREA HAVE COVERED BY SEVERAL SETS OF THESE EQUIPMENTS.

**OVERFLOW DOWNSPOUT:**  
 \* VERTICAL PIPE FOR CONVEYING RAINWATER FROM A GUTTER TO THE GROUND.  
 \* DETAIL OPERATION STRUCTURE REFER TO DRAWING NO.3.

**DOWNSPOUT:**  
 VERTICAL PIPE FOR CONVEYING RAINWATER FROM THE GUTTER TO THE TREATMENT TANK.

**TREATMENT TANK:**  
 \* DOUBLE FILTERING THROUGH TWO FILTERS RESPECTIVELY CONNECTED TO THE SUPPLY PIPE AND THE DELIVER PUMP.  
 \* GUTTER TRANSFER THE RAINWATER TO THE TANK, THEN THROUGH THE PUMP DIRECT WATER FOR TO "RAINBIRD" SPRAY HEAD FOR COOLING FUNCTION.

**OVERFLOW PIPE FOR TREATMENT TANK:**  
 EXCESSIVE RAINWATER IS DIRECTED FROM PIPES TO THE HOUSE SEWERWELL.

**REVISIONS:**

No.	Description

**Scale:** N 1'S (A3)

**DRIVING TITLE:** RECYCLED IRRIGATION SYSTEM FOR THE GREENHOUSE.

**DRIVING NUMBER:** GH-01-21

**Drawn by:** APRIL\_24 **Date:** APR. 05  
**Checked by:** MR.K.KAJU **Date:** APR. 05

**Scale:** N 1'S (A3)

**REMARKS:**

**NOTE:**  
 HEIGHT OF WATER LEVEL AT 50MM FOR "RAINBIRD" OPERATION SHOULD BE KEPT.  
 WATER LEVEL FOR OVERFLOW FUNCTION IS APPROX. 150MM. WATER IS DIRECTED TO TREATMENT TANK.

SIDE VIEW OF THE ROOF OF THE GREEN HOUSE

FIGURE SHOWS THE FEATURES OF THE GLASS ROOF, FRAME STRUCTURE, COMPOSITE TRUSS, COLUMN, GUTTER, GUTTER, HANGING CHORD, HEEL, AND RAINBIRD OPERATION.

**SEVEN HOUSE VENTILATORS FOR AIR EXCHANGE, OF WHICH TWO FOR AIR INLETS AND OTHERS FOR OUTLETS.**

**GRADIENT OF THE TRUSS APPROX. 1:2**

**FAN TRUSS OF LENGTH APPROX. 2000MM**

**REVISIONS:**

No.	Description

**Scale:** N 1'S (A3)

**DRIVING TITLE:** RECYCLED IRRIGATION SYSTEM FOR THE GREENHOUSE.

**DRIVING NUMBER:** GH-02-21

**Drawn by:** APRIL\_24 **Date:** APR. 05  
**Checked by:** MR.K.KAJU **Date:** APR. 05

**Scale:** N 1'S (A3)

**REMARKS:**

**NOTE:**  
 HEIGHT OF WATER LEVEL AT 50MM FOR "RAINBIRD" OPERATION SHOULD BE KEPT.  
 WATER LEVEL FOR OVERFLOW FUNCTION IS APPROX. 150MM. WATER IS DIRECTED TO TREATMENT TANK.

**FIGURE SHOWS CUTTER ARRANGEMENT FOR WATER LEVEL AND RAINBIRD OPERATION**

CUT SECTION BB	RAINBIRD INSTALLATION	MAIN PIPELINE	FLOW DRAINAGE
GUTTER FOR OVERFLOW PIPES	RAINBIRD INSTALLATION SHOULD ACHIEVED	1). PVC PIPE OF DIAMETER 50MM FOR RISER.	1). TWO DRAINAGE PIPES FOR THE WHOLE SYSTEM.
1). SHORT PVC PIPE FOR OVERFLOW FUNCTION, WHICH PLACE WITHIN THE GUTTER AND WRAPPED WITH WATERPROOFING MATERIALS TO PREVENT ANY LEAKAGE FROM THE JOINTS.	FOR "RAINBIRD" SUCH AS SUITABLE INTERVAL BETWEEN SPRAYHEADS, SPARY WATER SHOULD FULLY COVER THE SURFACE OF THE GLASS ROOF.	2). STAINLESS STEEL PIPE OF DIAMETER 20MM FOR DISTRIBUTION MAIN.	2). DRAINAGE PIPES SHOULD BE EXTENDED TO THE TREATMENT TANK FOR RECYCLING, WHICH DIRECTED TO THE SPRAYHEAD THROUGH THE RISER.
2). PIPE LENGTH AND HEIGHT OF THE WATER LEVEL SHOULD BE STANDARD - BOTH AT 50MM	2). RAINBIRD INSTALLATION: *VERTICAL INSTALLATION OF RAINBIRD SPRAY HEAD AND WITHIN THE GUTTER * WATER SHOULD BE AVOIDED FLOWING INTO THE HOUSE VENTILATOR DURING OPERATIONAL PERIOD.	3). PIPE BRACKET SHOULD BE OF STAINLESS STEEL TYPE AND SCREWED ON THE FRAME.	
3). FOR JOINT CONNECTION, NO CHEMICAL OR WELDING METHOD SHOULD BE USED.			

**REMARKS:**

ASSEMBLY OF THE EXISTING GUTTERS SHOULD REMAIN UNCHANGE. WATER STORE IN THE GUTTERS IS USED FOR RECYCLING IN THE IRRIGATION SYSTEM THROUGH THE PUMPING SYSTEM TO THE SPRAYHEADS. THE OBJECTIVE IS TO ESTABLISH A COOLING FUNCTION FOR GLASS ROOF. DETAILS REFER TO ABOVE INFORMATION.