

3. Stainless Steel Spring Fastener
4. Screw and Other hardware Accessories for roof covering.
5. Existing nursery greenhouse is included in scope of works. (*see detail drawings*).

XVIII. Skylight AC Automatic Motor Type

This item includes Provision and installation of the following:

1. 1 set – Electric Sunroof Motor
2. Polyethylene Plastic Film (UV 200microns)
3. Pest Net (16mesh/in) - white
4. Screw and Hardware Accessories for Skylight System
5. Electrical Wiring

XIX. Upright Scroll Cover

This item includes Provision and installation of the following:

1. 3 sets – AC Automatic Electric Roll Up Motor Climbing Device (Left side, Right Side and Rear)
2. Polyethylene Plastic Film (UV 200microns)
3. Pest Net (32mesh/in) – white
4. Stainless Steel Lock Channel Profile (6m)
5. Stainless Steel Spring Fastener
6. Screw and Hardware Accessories for Climbing Device
7. Electrical Wirings

XX. Hydroponics and Aquaponic Units

This item includes Provision and installation of the following:

1. 6 units – Hydroponics Piping Stand
2. 6 units – Aquaponics Float Type Kick Board System
3. 6 units - Water Towers
4. 12 units – Ladder Shelf
5. 8 units – Steel frames
6. 1 unit PE Water Tank (1000Liters)
7. 1 unit PE Water Tank (250Liters)

XXI. Smart Digital Control Systems

This item includes Provision and installation of the following:

1. 1 unit – Ec Sensor
2. 1 unit – Ph Sensor
3. 1 unit - Rainwater Sensor
4. 1 unit – Sunshine Sensor
5. 1 unit – Moisture
6. 1 unit – Temperature Sensor
7. 1 unit – Wind Sensor
8. Complete Sets of Electrical Wiring

XXII. Environment Control Systems

This item includes Provision and installation of the following:

1. Water Quality Real-time online Monitoring System.
2. Weather Quality Real-time online Monitoring System.

3. Climate Control Software app Editor, 4G Modem Share PLC Modem Share

XXIII. Solar Hybrid System

This item includes Provision and installation of the following:

1. 1 set - 5Kwp Hybrid Solar Power Inverter,1-Phase, 230V, 60Hz
2. 12 sets – 450watts Solar Panel
3. 1 sets – Hybrid battery (10Kw)
4. 1 set – Battery Management System
5. 1 set – Electric Management System
6. 1-set Automatic Transfer Switch 70amps 100AF 230 V 1 PHASE NEMA 3R ENCLOSURE
7. Complete sets of Electrical Wirings Combiner Boxes and Protective Devices
8. T8 Tube Light in Weatherproof Housing
9. 15AT disconnect in Nema-3R Enclosure
10. Duplex convenience outlet in weatherproof
11. Electrical Feeder wire from existing MDP to Control room is included in scope of works (*see single line diagram*).

XXIV. Automatic Irrigation System

This item includes Provision and installation of the following:

1. 1 unit - High Pressure Pump(1hp)
2. 1 set - Water Piping System10 sets – 500watts Solar Panel
3. 1 unit PE Water Tank (300Liters)

XXV. Smart CCTV

This item includes Provision and installation of the following:

1. 3 sets - Intel Core i3-9100 Processor (6M Cache, up to 4.20 GHz), 8GB DDR4-2400 SDRAM (1 x 8 GB), 1TB 7200 rpm SATA, DVD-Writer, Windows 10, HP 20kd 19.5-inch IPS Display Monitor, AMD Radeon 520 (2 GB GDDR5 dedicated)
2. 3 sets - 8 Channel Network Video Recorder (NVR) Third-party network cameras supported Up to 8 Megapixels resolution recording Supports 1-ch HDMI, 1-ch VGA, HDMI at up to 4K (3840x2160) resolution 1 self-adaptive 10/100/1000 Mbps network interface Connectable to smart IP cameras and the recording, playing back, and backing up of VCA alarms can be realized Supports various VCA detection alarm and VCA search Supports H.265+/H.265/H.264+/H.264/MPEG4 video formats
3. 11 sets - 5MP Network Bullet IP Camera, Up to 5 megapixel high resolution, Max. 2560 x 1920 @30fps, 2.8mm fixed lens, H.265, H.265+, H.264+, H.264, 120dB Wide Dynamic Range, 3D Digital Noise Reduction, DC 12V & PoE (802.3af), IR range: up to 30m, Support on-board storage, up to 128 GB, IP67
4. 6 sets - 2TB Hard Disk Drive (HDD)
5. 1500 In.m. - Cat6 UTP 4-pairs Cable, 23AWG
6. 3 sets - NVR Lockbox Wall mounted, 21-Inch W x 21-Inch D x 8-Inch H, Interlocking lift off lid, Key locked front door, with exhaust fans

GENERAL NOTES

1. The Contractor shall provide all labor, material tools, equipment, supervision, and other related items required to complete the project as per the scope of works and specifications. Contractors are advised to visit the site, verify the existing site conditions to develop their proposal.
2. Site inspection shall be conducted by the PMC and PMO together with a representative from the Contractor to determine the exact measurement and actual site conditions.
3. All Materials delivered on-site shall have an Approved Material Inspection Report from the Project Monitoring Committee.
4. Upon awarding of the Contract, preparation of all materials and equipment shall be forty five (45) days; twenty one (21) days shipment lead time; seventy (70) days construction; and fourteen (14) days Installation and Testing and Commissioning. The entire project shall be completed within one hundred fifty (150) calendar days.
5. Project warranty is five (5) years upon the issuance of Completion and Acceptance Certificate.
6. An area to be used as storage for construction materials will be designated by the IU.
7. Water and electricity to be used during the construction will be charged to the Contractor.
8. Workers shall follow IU rules and regulations like wearing of ID's, No Smoking, etc.
9. Workers will be allowed to use a specified comfort room.
10. The Contractor shall coordinate with the PMO with regards to documents required for building permit applications.
11. If the Contractor determines that some portion of the drawing, specification, or contract document requires clarification or interpretation by the agency, the Contractor shall initiate and submit formally a written Request for Information (RFI).
12. In case there is a variation, a letter of justification with full and detailed particulars to support claims for change order shall be provided by the Contractor to the recommending unit to the PMC and PMO for evaluation and recommendation before its implementation.
13. In case of changes in the plans, additional works shall be charged to the Overhead, Contingencies, & Miscellaneous (OCM) of the project per Contractor's original bid and incur no additional cost to the project if the computed cost is within the OCM since OCM's are included in the project estimate to cover any unforeseen expenses and unknown issues during construction.
14. Shop drawings shall be submitted by the Contractor to the PMC for approval before implementation specifically structural details installation and fabrication.
15. The Contractor shall notify the PMC during every material delivery for inspection. Relatively, a Material Inspection Report shall be submitted by the Contractor to the PMC.
16. Reinforcing Steel Bars shall bear company markings, with the attached mill certificate for yield strength verification.
17. The Contractor shall furnish copies of the results of the testing of materials (for concrete design mix and RSB) to the PMO and PMC for approval and proper documentation before the concrete pouring request.
18. A concrete design mix shall be submitted by the Contractor to the PMO and PMC for approval before the concrete pouring request.
19. The Contractor shall provide a rebar cutting list for PMO approval before fabrication/ installation.
20. An approved form closure requests with an affixed signature of the implementing unit (PMC) must be submitted by the Contractor at least a day before the closure of forms in preparation for concrete pouring.
21. An approved concrete pouring requests with an affixed signature of the implementing unit (PMC) must be submitted by the Contractor at least a day before concrete pouring.
22. Proper plumbness of Column Reinforcement assemblies and Column forms shall be observed before closure of forms and concrete pouring.
23. All lumber shall conform to the specifications required by the IU.
24. All Electrical works shall be done under the supervision of a Professional Electrical Engineer, Registered Electrical Engineer, or Registered Master Electrician.
25. All Plumbing works shall be done under the supervision of a Registered Master Plumber.
26. The Contractor shall verify the design and specifications of any furniture, fixtures, and the likes, as well as the equipment and appliances before procurement.
27. Removed/recovered materials that can be utilized should be turned over to IU.
28. If the Contractor does not have an employed certified installer, he shall submit to the Agency thru PMC an agreement with the supplier and its certified installer which will deliver and/or perform special services, equipment, and other appurtenances for special items.

29. If in case the Contractor requests additional/ extra copies of plans and/or plans for building permit application, they shall pay a printing fee per sheet of A3 sized paper scheduled as follows; 10.00php for black and white and 20.00php for colored. All transactions shall be paid through the cashiering services.
30. The Contractor is required to update figures and data of actual accomplishment of the project every 15th and 30th of the month. This information together with other supporting documents (i.e. equipment and workforce, utilization chart, weather chart, PERT/CPM, etc.) shall be made available and posted at the field office.
31. Testing, Commissioning and Technical Trainings shall be conducted by contractor to designated technical personnel of CatSU.

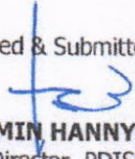
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