**Design Statement and Environment Statement - Solar PV Greenhouse Peacock**

**Lens Shape Blue-Green Arch Peacock Solar PV Greenhouse on North Fly Ranch**

**Lens Shaped Blue Green Arch Greenhouse - 15 Meters East to West and 7 Meters North to South and 5-7 Meter High Epoxy FRP Structural Members and Polyester FRP Greenhouse**

**Median Cost of the Proposed Design is estimated to be around US$ 30000-00 with a Minimum of US$ 20000 and maximum of US$ 50000-00**

**Lens Shaped in Plan and Arch Shape in Elevation, Blue Green Peacock Solar PV Greenhouse on North Fly Ranch**

**with**

**Blue Green Solar PV Crystalline Silicon Photo Voltaic Circular Cells facing on South Slope of Inclined Vertical Green Garden Wall of Polyester FRP Pitched Roof East West Orientation Greenhouse,**

**with**

**Blue CIGS or CdTe thin Film on South Face of Polyester FRP Peacock Neck**

**and**

**North Slope of Inclined Vertical Green Garden Wall of Pitched Roof East West Orientation Greenhouse as Poly-house**

**with**

**Double Layer Polyethylene or Polypropylene Reinforced with sandwiched Polyester PET or Nylon Fabric or Fibers**

**Or**

**North Slope of Inclined Green Wall of Polyester FRP Pitched Roof East West Orientation Greenhouse,**

**With**

**Peacock Greenhouse as Facilities, Resting and Food Outlet**

**Energy -Solar PV- Polycrystalline Silicon & CdTe CIGS thin Film, Geyser, Greenhouse**

**Water - Condensing Ground Source Water with Solar RO Reverse Osmosis Treated Drinking Ground Water, High Water Table near Fly Ranch Geyser in 3 Quadrants of Greenhouse, Toilet Quadrant to use Treated Waste Water with Treated Ground Water.**

**Geothermal Geyser Water based Geothermal Heating in Winter and During Nights**

**Food - Green Walls Aquaponics Greenhouse for Food, Flower, Green Vegetables, Algae, Tomatoes, Mushrooms, Green Vegetables on Green Walls, Solar UV Lighting for Plants**

**Packed Food and Water available in Peacock Greenhouse Rest Room with Rear Entry**

**Shelter with Food Facilities & Toilets – 3 Quadrants as Greenhouse Rest Room Shelter, Fourth Quadrant as Toilets, Rest Room, Facilities Food RO Drinking Bathing Water**

**Regeneration / Composting / Bio Toilets -Mini Biogas Chamber Toilets, Waste, Wastewater can used for in One Toilet Quadrants of Greenhouse for Wash, 3 Quarters for Solar PV RO Reverse Osmosis for Treating Ground Water with Solar Evaporative Condensation for Drinking and Water Bath in Rest Rooms**

**Polyester FRP Arch Pitched Roof East West Orientation Greenhouse, to have Inclined Aquaculture Green Walls Inside of North and South Pitched Sloping Roof or Sloping FRP Arch Pitched Roof Inclined Walls on South Side and Inside Films of Polythene Polypropylene Polyester or FRP on North Side or North side Polyester FRP with**

**Greenhouse Bifurcating Vertical Green Walls as North South and East West Greenhouse Reinforcing and Stiffening Walls .**

**Arch Shaping Greenhouse with South and North Facing Inclined Pitched Roof**

**Greenhouse**

**Circular Disc Solar PV Cells like Peacock Feather Spots on Semi Circle South Face with Poly Crystalline Silicon on 60 Degree South Slope of Polyester FRP Greenhouse**

**No Solar PV on Arch North Slope of Film Fabric Greenhouse**

**CdTe or CIGS Thin Film on South Facing Neck of Greenhouse Peacock**

**North Fly Ranch is adjacent to Fly Ranch Geyser with High Water Table near Surface**

**Ground Source High Water Table Humidity Evaporating Water Condensation in Greenhouse**

**Solar PV for RO Reverse Osmosis Purification of Ground Water for Drinking**

**Condensing Ground Source Water at Night from Dugout Earth inside Solar Heated Greenhouse create High Absolute Humidity inside Greenhouse during Day, which Condense at Night on Cool Sloping Roof and Vertical Green Walls of Greenhouse to Create a Humid Aquaponics Aeroponics Environment suitable for Greenhouse**

**Peacock Feathers like Circular Spot Arrangement of Poly-crystalline Silicon Solar Cells**

**Blue Green Peacock as an Energy Sculpture Monument to Renewable Energies**

**Geothermal Geyser Source Heating, Evaporative Cooling Humidifying as Extreme Climate Mitigating Buffer inside Arch Shaped Greenhouse Shelter During Day-Night**

**Poly-crystalline Silicon Solar Cells as Sun Shading Controlled Day-lighting Devices**

**Greenhouse Shelter Entry from Rear – Food Outlet, To**

**Maintenance Entry from Rear from where the Peacock Bird Urinates with 2 Rear Gates**

**Only Emergency Exit from Front**

**Peacock Sculpture Raised above highest adjacent Ground Levels on an Eccentric Center Located Raised Concentric Eccentric Circular Raised Platforms to prevent Flooding**

**Each of the Four nos. 15 cm High Circular Platform to have an Edge Ring Drain to Divert Flash Flooding from Peacock Sculpture**

**Lens Shaped in Plan and Arch Shape in Elevation, Blue Green Peacock Solar PV Greenhouse on North Fly Ranch with 4 Quadrants**

**Ground Source Geyser Water Use in 3 Quadrants - High Temperature High Water Table near Geyser High Absolute Humidity Greenhouse Condensing on Leaves, Vertical Gardens , and with Solar PV RO Reverse Osmosis for Drinking, Wash and Bath**

**Shelter Toilet and Greenhouse Compost Biogas-Mini- Chamber Treated Water in Toilet**

**Quadrants of Greenhouse for Bath and Flushing and Horticulture**

**Synopsis**

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**Peacock Solar PV Arch Lens Greenhouse Sculpture as Fly Ranch Drinking Refreshing Water Food Rest Room Facilities with Renewable Energy Green Environmental Footprint**