

# Exo-Moon Human Habitats

## Project Proposal-2022

### 01. Introduction:

Human habitats are safer to be spread prospectively into the Space in the focus of disastrous planetary changes in possibility to take place with the forthcoming Magnetic Reversal of the Globe.

### 02. Visionary Objectives:

1. Earthians are safer to possess **Satellite Habitats** of sustainable living environment, to orbit around Earth.
2. Earthians are safer to maintain the balance of **Angular Momentum** of the Earth-Moon gravitational rotary dynamic system.

### 03. Theoretical Feasibility of the Objectives:

- **Sustainability of Satellite Habitats:**
  - The fundamental habitat needs such as 1)-fresh **Water**, 2)-healthy **Atmosphere** and 3)-vegetable **Land** resource have to be established in the Exo-Moon Habitats.
  - The **Recycling** functions to be maintained either naturally or through abstraction of **Renewable** energy aspects.

- **Balance of Angular Momentum in rotary dynamic systems:**

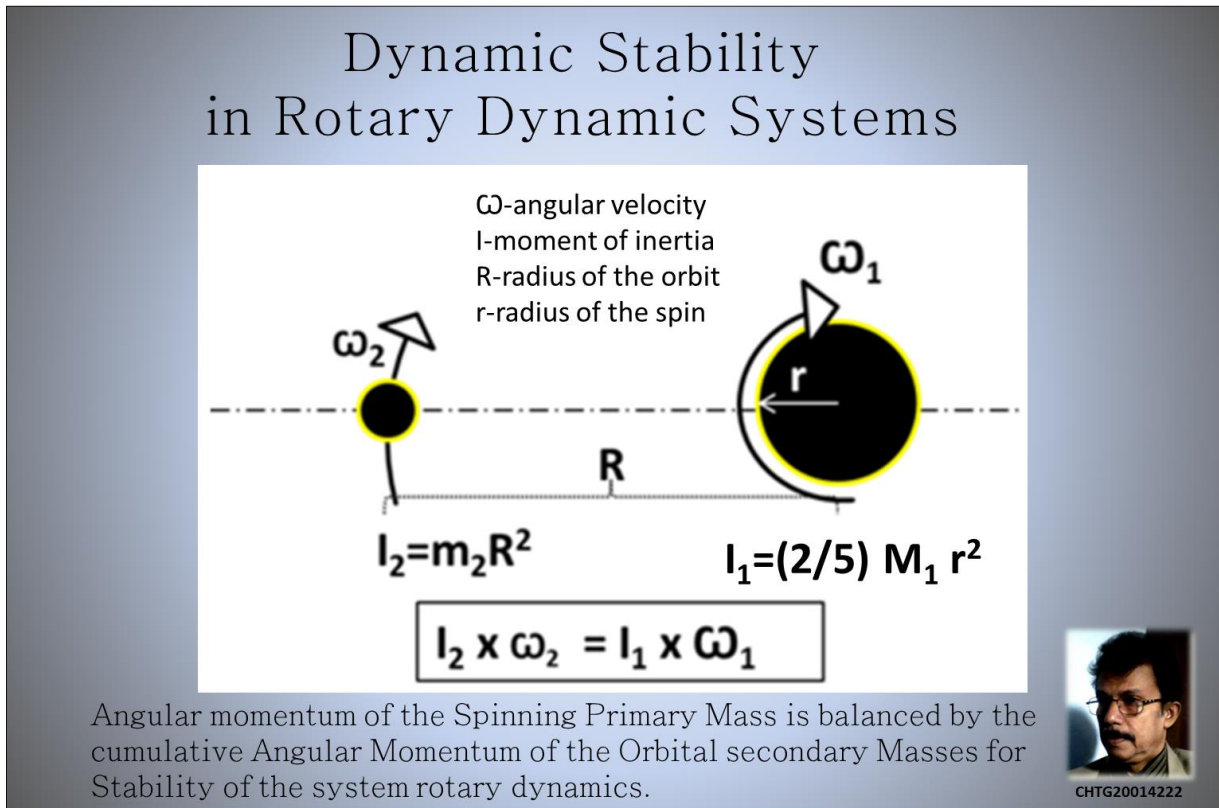
*Definition:-*

*Angular momentum of the spinning **Primary Mass** must be balanced by the resultant angular momentum of the orbiting **Secondary Masses**.*

- I. *The magnitude of the unbalance momentum indicates the magnitude of the instability of the rotary dynamic system leading towards a change.*
- II. ***Increment** of mass in the Primary Mass, slows down the **spinning dynamics** leading towards **instability**.*
- III. ***Decrement** in mass from the Primary Mass speeds up the **System Rotary Dynamics** to restore the Balance back towards **stability**.*

## 04. Novel theories of the Objective Relevancy:

### Theory of 'Balance of Angular Momentum in Rotary Dynamic Systems':



**FIGURE-1**

- What is the need of a new theory?  
Earth-Moon couple is an independent Gravitational rotary dynamic system in the space. But we do experience that the system is leading towards a change. Moon is gently increasing the distance from Earth but no definition so far to explain why.
- The theory of 'Solar mass transplantation in Planets'  
<http://www.cyrilhtgamage.com/index.php/publication-space-dynamic/87-space-dynamic/168-theory-of-solar-mass-transplantation>  
declares that Earth is being grown in Mass and Size with clear evidences of widening of the topographic gaps between tectonic plates. (Electromagnetically polarized spinning Planets in the solar system such as Earth, Jupiter, Saturn, Uranus and Neptune are being

grown in Mass and Size by absorption of the energy flux from the Solar Wind)

- As such the angular momentum of the Primary Mass(Earth) is increased but the due un-balance of the Earth-Moon system is automatically adjusted by gradual increment of the distance to the Moon 'R' from Earth. Also, it could be adjusted by **slowing down** of the spinning speed ' $\omega_1$ ' of Earth.
- As such, Earthians are safer if they could catch hold of Moon from the prospective **departure** or unless Earth shall be accelerated until another tectonic plate is projected out into the space to balance the gap between **Orbital** and **Spinning** Angular Momentums in the Rotary Dynamic System.
- Therefore it is the safest measure of the solution to **decrease** Mass of Earth by **construction** of Exo-Moon Habitats to orbit the globe in the same spinning direction upon the equatorial plane.

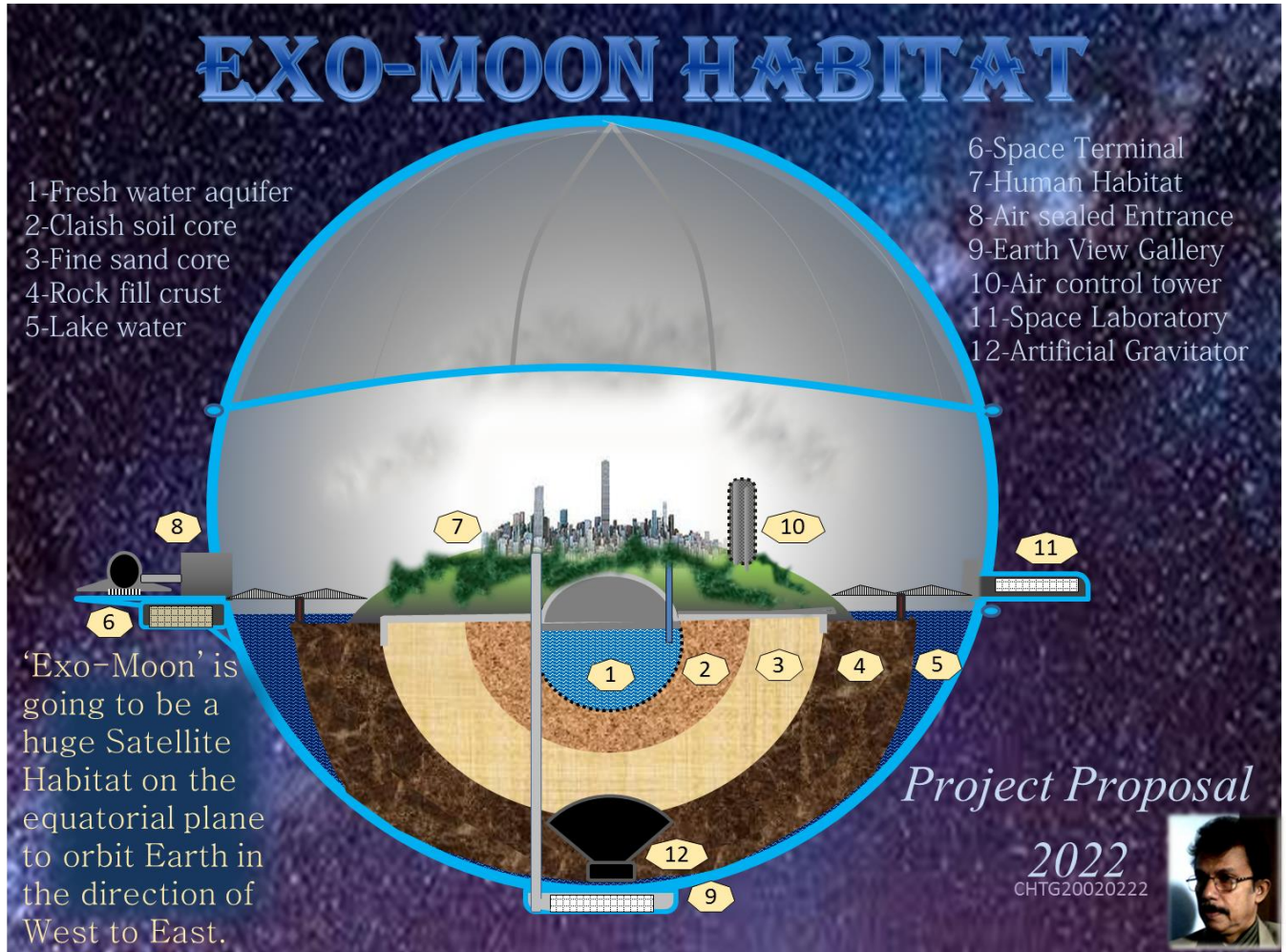
## **05. Guidance for Implementation:**

### **5.1-Construction:**

- The Frame Structure has to be fabricated on Earth.
- The huge Frame has to be transported up to the high satellite altitude part by part, in three stages and assembled there in the Space, by Space Engineers.
- Earth materials has to be transported to fill the bottom half of the structure after fixing of the necessary infrastructure as shown in the figure-02.
- The middle Ring Frame structure is assembled after filling the Habitat with Earth materials except from water.
- Thirdly the upper hemisphere Frame Structure is assembled.
- Finally the living atmosphere is created with filling of both Water and Air.

### **5.2-Establishment of the Natural Cycles:**

It is a trial and error experimental process to establish the living environment for the Habitat and the available natural Renewable Energy resources such as Sunlight and Solar Wind are absorbed from the space.



**FIGURE-2**

- **Subsurface Water Cycle:**
  - 1-Lake water is infiltrated naturally to recharge the fresh water aquifer of drinking water supply for the Habitat.
  - 2-Treated waste water from the Habitat is fed for the agricultural lands and thence infiltrated or drained in to the lake water body back.
- **Atmospheric Air Cycle:**
  - 1-Humidity must be condensed on the glass surface inside of the globe and precipitated as drops at low temperature conditions could be expected in nights.
  - 2-Carbon, Nitrogen and Hydrogen cycles have to be helped artificially through renewable energy generation.

### 5.3-New technologies to be developed:

- Absorption of energy directly from **Solar Wind** is novel as yet as a technology to be developed.
- Artificial Gravitator is a novel concept as yet as a technology to be developed through experimentation.

## 06. Advantageous Effects:

### 1. Saving of Moon from the most probable 'Doomsday Departure':

Strength of the **Live Magnetic field** of Earth (not the fixed field due to the magnetic signature) is at a gradual drop which ought to cause slowing down of the spinning speed.

Earth-Moon is not entirely an independent couple as a 'Gravitational Rotary Dynamic System' while succumbed to the massive Gravitational Influence of the big boss Sun. For an instant, Solar Gravity at Moon(0.592 cm/s<sup>2</sup>) is almost double in magnitude than Earth Gravity at Moon(0.269 cm/s<sup>2</sup>).

As such, Moon is held by Earth just by the account of **Angular Momentum** of the Rotary Dynamics as the one and only Bond between them. Thence what will happen if Earth does lag behind in the mutual run in the Rotary Dynamics? It is just a matter of time that She will leave her lagging husband for living together with the big boss Sun. [the prospective orbit of our Moon as a new Planet of Sun, can also be calculated]

What could happen to us at the departure of Moon? Earth shall accelerate without having the counterweight to balance the Gravity Momentum until a tectonic plate is projected out to create a new Moon. Do you think that the great human civilization could survive in face of such a disaster?

The case study, to prove the practicability of the new theory of '**Balance of Angular Momentum in Rotary Dynamic Systems**' is linked herein to the monograph published in 2014 by name 'Theory of Gravity Momentum'.

<http://www.cyrilhtgamage.com/index.php/publication-space-dynamic/87-space-dynamic/155-theory-of-gravity-momentum>

The biggest advantageous effect by the proposal of ‘Exo-Moon Habitats’ therefore is to **de-centralize the mass** of Earth(spinning source) in the aim of accelerating it a little bit to maintain the healthiness of Rotary Dynamics of the Earth-Moon Gravitational System.

2. Assurance of Sustainability of the Global Human Civilization:

In case of a huge natural disaster, almost all the present technologies cum knowledge gained through millions of years could be lost with the Great Human Civilization on Earth.

Therefore the Exo-Moon Habitats shall be of immense use to restore the reformed Globe with establishment of the same civilization.

3. High economic potentiality of the Project:

Space Tourism shall create a booming potentiality towards success of the Exo-Moon Projects because the comfortable **Space Resorts** are not far away from Earth.

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