

KLAF 2019 - First Colony on Mars: International Ideas Competition
Queries and Replies

1	<p>(a) In the brief for the Mars competition, it is written that there should be space for a maximum of 50 couples, but are those people researches for the next mars expeditions or are those "normal" people? due to the Martians the need will differ!</p> <p>(b) Are the 50 couples skilled professionals, or are they accompanied by engineers and doctors who can maintain the buildings?</p> <p>You as the designer may decide on the configuration of the 50 couples, whether forming part of the research and construction team and taking account of diversity of the human population.</p>
2	<p>We post our work on Instagram, would this be a reason to get disqualified when it is posted before the submission deadline?</p> <p>All submissions are to be anonymous during the duration of this competition. Should you post your work on Instagram during the duration of the competition, the authorship will be identifiable, and you will be disqualified.</p>
3	<p>Is there oxygen in Mars atmosphere? As this will mean whether we need to design an enclosed space with oxygen provided or if there is already oxygen man can breathe without apparatus or enclosed oxygen space?</p> <p>Please refer this link https://www.businessinsider.com/the-climate-of-mars-2012-8/?IR=T already published in the brief, which describes the climate of Mars.</p>
4	<p>(a) Should we also consider the available technology, or should it be a total futuristic approach?</p> <p>(b) Since this is an idea competition, can we assume technology is advanced enough that breathing apparatus is small enough to be attached onto human nose thus, the concept artworks will look as if humans can thrive freely in Mars without having astronaut suits or large breathing apparatus?</p> <p>(c) Will we be disqualified if we put human images walking around with such apparatus as if there look like they can breathe in Mars?</p> <p>(d) How scientifically accurate and detailed must we be?</p> <p>(e) Do we need to consider forms of energy harvesting and if so may we consider geothermal energy which seems to be logically a thing but not evidenced?</p> <p>(f) Building which is construction there it could be construct by robots, I mean we can think futuristic?</p> <p>(g) How real, pragmatic or practical does the proposal needs to be? Does it have to fully rely on the existing technology that we have and be 100% scientifically correct? Is it possible to propose towards a more imaginary, science-fiction design, while still maintaining some basis of logic?</p> <p>Since this is an Ideas Competition, you may use either existing available technology or futuristic approach OR BOTH for the design of the colony.</p>

5	<p>(a) Will our submission be disqualified if we place plants and shrubs at the exterior of the buildings in Mar's current atmosphere?</p> <p>(b) Are there local Martian plants on Mars?</p> <p>(c) Since this is an idea competition, are we allowed to "create" our imaginary plants that is assumed to be able to survive in Mars atmosphere?</p> <p>(d) is the colony going to be built before or after warming the planet?</p> <p>Terraforming of planet Mars <u>shall not be considered</u> for this Ideas Competition.</p> <p>You may refer to this link to decide if plants can exist in Mars' atmosphere: https://www.nasa.gov/centers/goddard/news/topstory/2005/mars_plants.html</p>
6	<p>(a) Is there water in Mars?</p> <p>(b) If there is water in Mars, is the water amount sufficient for us to have a lake and ocean thus enabling properties having view of water body?</p> <p>Please refer to this link on water source on Mars: https://www.cnet.com/news/mars-orbiter-scientists-find-first-evidence-of-huge-mars-underground-water-system/</p>
7	<p>How much can each shuttle carry? How many will there be?</p> <p>You shall use your creativity to decide this.</p>
8	<p>What lies beneath the surface beyond the soil that Insight burrowed into?</p> <p>You may refer to the following link on the composition of Mars soil: https://www.space.com/16895-what-is-mars-made-of.html</p>
9	<p>Where can we find sections and detailed plans of the site?</p> <p>The Site of the Colony has already been given on the website under the heading OBJECTIVE/ SITE. There are no other sections and detailed plans available.</p>
10	<p>(a) Do we need to look into water and ventilation systems for recycling water and air?</p> <p>(b) Is the main agenda of the mission simply a human occupation on Mars or is it dedicated for research purposes, collecting data and bringing them back to earth?</p> <p>(c) what are the space functions needed?</p> <p>(d) what are the professions of the occupants?</p> <p>(e) should we propose solutions to produce basic resources?</p> <p>You will need to consider whatever is necessary for the human colony to thrive and sustain.</p>
11	<p>Do I have to concern about money or there is no money limit?</p> <p>As this is an Ideas Competition, budget is not a consideration.</p>

12	<p>(a) Are we (as the participants) allowed to base our concept on digging into and through the ground of Mars?</p> <p>(b) Are we (as the participants) allowed to use the soil of Mars to shield the base from cosmic radiation?</p> <p>(c) Are we allowed to reuse the Martian soil (after the filtration) for the plantations and agriculture?</p> <p>(d) Which is more important, Architecture or Practical?</p> <p>(e) Does the design have to involve ALL of the factors and circumstances of Mars, and that we have to take into account of each and every fact seriously? If so, does it mean the panels judge by the practicality of the design, and that if a design failed to anticipate a single disastrous outcome or missed out one bit of a fact that the participant isn't aware of, will the design itself loses any mark? OR, are the panels hoping to see a simple innovative aspect that could inspire and bring forth new ideas?</p> <p>(f) do we need to show references?</p> <p>(g) is there any specific material to be used?</p> <p>(h) what is the space dimensions allocated for each couple?</p> <p>(i) are technical and mechanical illustrations and details required to be shown in the A0 board?</p> <p>As this is an Ideas Competition, you may propose as you see fit.</p>
13	<p>I just noticed something in the brief: A design for the first human colony on planet Mars, to be built using materials from Planet Earth, to be transported across space in whole, or in part and assembled on Mars. Does this mean that in-situ resource utilization can't be used for this project?</p> <p>You may employ whatever in-situ resource available in Mars, if there is any.</p>
14	<p>Should I use AO - 1189 mm by 841 mm ?..when I will send one board of course, or should I use A1 - 841 mm by 594 mm ?...when I will send two boards of course</p> <p>I found differences between dimensions with printing bleeds or without it, hence my queries: And if the boards need PRINTING BLEEDS give me an info, please.</p> <p>The following sizes shall apply: AO - 1189 mm by 841 mm A1 - 841 mm by 594 mm</p> <p>Printing bleeds are not required, you may use up to the maximum size for your softcopy submission.</p>
15	<p>Regarding to this competition the final submission could be done by software or it should be free hand?</p> <p>You may use any forms of media for your submission, as long as it fits into the prescribed submission board sizes and emailed in the prescribed pdf and jpeg formats.</p>

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May I know if you accept videos as an additional form of submission?

Your submission is to fit into the prescribed submission board sizes and emailed/upload in the prescribed pdf and jpeg formats. Any additional submission such as video, animation or physical model may be used for exhibition purposes only BUT WILL NOT be part of the evaluation for judging.